CHECK POINT™

24 June 2025

INFINITY PORTAL

Administration Guide

INFINITY

QUANTUM

CLOUDGUARD

HARMONY

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Important Information

Latest Software
We recommend that you install the most recent software release to stay up-to-date with the latest functional improvements, stability fixes, security enhancements and protection against new and evolving attacks.

Certifications
For third party independent certification of Check Point products, see the Check Point Certifications page.

Check Point Infinity Portal Administration Guide

Latest Version of this Document in English
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Check Point is engaged in a continuous effort to improve its documentation.
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Revision History

Date	Description
12 June 2025	Updated *"Event Forwarding" on page 67*
22 May 2025	Added the option to *"Remember 2FA settings for 14 days" on page 44*
08 May 2025	General updates
24 April 2025	Added: ■ *"Configuring IP Access List" on page 45*

Date	Description
20 April 2025	Updated: ■ *"General" on page 28*
10 March 2025	A separate Administration Guide for MSSP is created.
05 March 2025	Updated: ■ *"Users" on page 49* ■ *"User Groups" on page 54*
17 February 2025	Updated: ■ *"API Keys" on page 64*
21 January 2025	Updated: ■ *"User Groups" on page 54* - Updated *"To add a new User Group" on page 54*.
01 January 2025	Updated: ■ *"Services & Contracts" on page 59* - In the HTML version of this guide, added a video tutorial.

Click here to see the revision history for 2024

Date	Description
15 December 2024	Updated: ■ *"Event Forwarding" on page 67* - Moved troubleshooting instructions from this guide to a new and more detailed Secure Knowledge (SK) article.
01 December 2024	Updated: ■ *"Microsoft ADFS" on page 80* - Updated "Allow Connectivity" section
27 September 2024	Updated: ■ *"User Groups" on page 54* ■ *"Two-Factor Authentication (2FA)" on page 40* ■ *"Services & Contracts" on page 59* ■ *"API Keys" on page 64*

Date	Description
22 September 2024	Added: ■ *"PingFederate" on page 145*
01 September 2024	Updated: ■ *"OneLogin" on page 116* - Added SCIM token Directory Integration feature
07 August 2024	Updated: ■ *"Ping Identity" on page 129* - Added SCIM token Directory Integration feature
21 July 2024	Updated: ■ *"User Groups" on page 54*
14 July 2024	Updated: ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85* - added videos for Manual Integration and SCIM (Automatic) Integration
08 July 2024	Updated: ■ *"Okta" on page 101*
11 June 2024	Updated: ■ *"Okta" on page 101*
28 May 2024	Updated: ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85*
24 April 2024	Updated: ■ *"Services & Contracts" on page 59* ■ *"Event Forwarding" on page 67*
02 April 2024	Updated: ■ *"SSO Authentication Setup with Identity Provider" on page 76* - clarified that Directory Integration applies only for Infinity Portal services

Date	Description
25 March 2024	Updated: ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85* ■ *"Ping Identity" on page 129*
04 March 2024	Updated: ■ *"Two-Factor Authentication (2FA)" on page 40*
31 January 2024	The "Horizon" was rebranded to the "Infinity" pillar

Click here to see the revision history for 2023

Date	Description
31 December 2023	Updated: ■ *"Getting Started with the Infinity Portal" on page 20* - added video
28 December 2023	Updated: ■ *"SSO Authentication Setup with Identity Provider" on page 76* - added table of features supported for different Identity Providers
19 December 2023	Updated: ■ *"Okta" on page 101* - Updated "Allow Connectivity" section, added video
19 November 2023	Updated: ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85* - added OPTIONAL - Enable IdP Initiated Flow
09 November 2023	Updated: ■ *"Restrict Account Access" on page 45* - this feature is now in GA, not EA ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85*- edited to reflect Microsoft changing the name of "Azure AD" to "Entra ID", added Note to the "Prerequisites" section ■ *"RADIUS" on page 166* - clarified that users must contact *Check Point Support* to use ports for RADIUS that are not the default ports
19 October 2023	Updated: ■ *"RADIUS" on page 166*

Date	Description
16 October 2023	Updated: ■ *"Introduction to the Infinity Portal" on page 18* - Added Infinity Playblocks to list of Available Services
11 October 2023	Updated: ■ *"Event Forwarding" on page 67* - In Prerequisites > step 5, added regional IP addresses
27 September 2023	Updated: ■ *"Okta" on page 101* - updated procedure for new Okta portal WebUI ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85* - improved formatting
06 September 2023	Updated: ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85* - In *"To use Manual Sync" on page 92*, added optional step to sync device information.
23 August 2023	Updated: ■ *"Okta" on page 101*
21 August 2023	Updated: ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85*
09 August 2023	Updated: ■ *"User Groups" on page 54*
01 August 2023	Updated "Integration Type" configuration instructions for SSO authentication with these Identity Providers: ■ *"Microsoft ADFS" on page 80* ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85* ■ *"Okta" on page 101* ■ *"Google Workspace" on page 150* ■ *"OneLogin" on page 116* ■ *"Ping Identity" on page 129* ■ *"Generic SAML Server" on page 148* ■ *"RADIUS" on page 166*

Date	Description
24 July 2023	Updated: ■ *"Directory Integration" on page 120* in *"OneLogin" on page 116*
16 July 2023	Updated: ■ *"Identity & Access - Identity Providers" on page 31* - Improved instructions for how to change an Identity Provider configuration, added instructions to re-generate SCIM token ■ *"Event Forwarding" on page 67* - added explanation and examples, improved formatting ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85* - updated *"Allow Connectivity" on page 89* and *"Microsoft Entra ID (formerly Azure AD)" on page 85* ■ *"OneLogin" on page 116* - updated *"Set User Claims and Group Claims" on page 119* ■ *"Ping Identity" on page 129* - updated *"Allow Connectivity" on page 130*
22 June 2023	Updated: ■ *"Identity & Access - Identity Providers" on page 31* - improved formatting ■ *"User Roles" on page 49* - added note about "Access Forbidden" message
31 May 2023	Updated: ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85* - added video for "How to Configure the SSO authentication with Microsoft Azure." Added support for IdP-initiated flow with Google Workspace, OneLogin, and Ping Identity: ■ *"Google Workspace" on page 150* ■ *"OneLogin" on page 116* ■ *"Ping Identity" on page 129*
3 April 2023	Added new IdP: *"Google Workspace" on page 150*
14 March 2023	Added: ■ *"SSO Authentication Setup with Identity Provider" on page 76*

Date	Description
13 March 2023	Added: ■ *"Auto-Match Roles for Services" on page 37* ■ *"SSO Bypass for Primary Administrators" on page 25*
20 February 2023	In *"Available Services" on page 18*, added three new Quantum services to the Infinity Portal: ■ Spark Management ■ IoT protect ■ SD-WAN
01 February 2023	In *"API Keys" on page 64*, added Authentication URL, which shows the URL address used to authenticate API requests.
10 January 2023	Added: ■ Testing connectivity to a configured IdP is now possible with the IdP card, see *"Testing IdP Connectivity" on page 48*
8 January 2023	Users can now get direct help from Check Point Support, see *"Support Mode" on page 29*.

Click here to see the revision history for 2022

Date	Description
13 Sep 2022	■ Infinity Vision is now called *Horizon Unified Management & Security Operation*. ■ In *"Available Services" on page 18*, added three new Horizon services to the Infinity Portal: • Horizon MDR • Horizon XDR • Horizon Events
04 Sep 2022	Added: ■ *"Event Forwarding" on page 67*
23 August 2022	In *"How to Log in to your Account" on page 22*, added option to select region in account login.

Date	Description
02 August 2022	In *"Getting Started with the Infinity Portal" on page 20*: ■ Added new data residency options and removed the necessity to create an account in a specific region. ■ Added *"How to Delete your Account" on page 22*.
12 July 2022	In *"How to Delete your Account" on page 22*, added country specific portal links.
27 June 2022	Updated *"SSO Authentication Setup with Identity Provider" on page 76* for *"Microsoft Entra ID (formerly Azure AD)" on page 85*.
23 June 2022	Updated *"SSO Authentication Setup with Identity Provider" on page 76* for *"OneLogin" on page 116*.
20 June 2022	Updated *"SSO Authentication Setup with Identity Provider" on page 76* for: ■ *"Microsoft ADFS" on page 80* ■ *"Okta" on page 101*
19 June 2022	Updated: ■ *"How to Create an Account" on page 20* ■ *"How to Log in to your Account" on page 22*
13 June 2022	Added: ■ *"Directory Integration" on page 36*
09 June 2022	Updated: ■ For *"How to Create an Account" on page 20*, added a new step that requires users to select an account type ■ In *"Two-Factor Authentication (2FA)" on page 40*, changed *Mutli-Factor Authentication* to *2FA* and added the necessary steps to turn on 2FA for Profile and Global Settings
31 March 2022	Updated: ■ *"General" on page 28* ■ *"SSO Authentication Setup with Identity Provider" on page 76* ■ *"Profile Settings" on page 24*
14 March 2022	Updated: ■ *"SSO Authentication Setup with Identity Provider" on page 76*

Date	Description
9 March 2022	Updated: ■ *"Services & Contracts" on page 59*
07 March 2022	Updated: ■ *"Okta" on page 101*
3 March 2022	Updated: ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85* ■ *"General" on page 28*
1 March 2022	Updated: ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85*
28 February 2022	Updated: ■ *"Services & Contracts" on page 59*
27 February 2022	Updated: ■ *"General" on page 28*
24 February 2022	Updated: ■ *"Microsoft ADFS" on page 80* ■ *"Services & Contracts" on page 59*
22 February 2022	Updated: ■ *"Microsoft ADFS" on page 80*
17 February 2022	Updated: ■ *"Services & Contracts" on page 59*
13 February 2022	Updated: ■ *"How to Create an Account" on page 20*
07 February 2022	Updated: ■ *"Available Services" on page 18*

Date	Description
30 January 2022	Updated: ■ *"Available Services" on page 18*
24 January 2022	Updated: ■ *"Audits" on page 57* ■ *"Users" on page 49*
20 January 2022	General updates Added: ■ *"Okta" on page 101* ■ *"OneLogin" on page 116* ■ *"Ping Identity" on page 129* ■ *"Generic SAML Server" on page 148* ■ *"Duo" on page 164* Updated: ■ *"Audits" on page 57* ■ *"Users" on page 49*

Click here to see the revision history for 2021

Date	Description
27 October 2021	Updated: ■ *"Microsoft ADFS" on page 80* ■ *"Profile Settings" on page 24* ■ *"Users" on page 49* ■ *"RADIUS" on page 166* ■ *"API Keys" on page 64*
20 July 2021	Added: ■ *"RADIUS" on page 166* Updated: ■ *"General" on page 28* ■ *"SSO Authentication Setup with Identity Provider" on page 76*

Date	Description
19 May 2021	Updated: ■ *"How to Create an Account" on page 20* ■ *"Profile Settings" on page 24* ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85*
25 February 2021	Updated: ■ *"Available Services" on page 18* ■ *"How to Create an Account" on page 20* ■ *"Using the Navigation Menu" on page 23* ■ *"Account Settings" on page 27*

Click here to see the revision history for 2020 and 2019

Date	Description
17 November 2020	Updated: ■ *"Account Settings" on page 27*
09 November 2020	Updated: ■ *"Available Services" on page 18*
17 August 2020	Updated: ■ *"SSO Authentication Setup with Identity Provider" on page 76* ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85*
29 June 2020	Updated: ■ *"Account Settings" on page 27*
21 June 2020	Added: ■ *"SSO Authentication Setup with Identity Provider" on page 76* ■ *"Microsoft Entra ID (formerly Azure AD)" on page 85* Updated: ■ *"Account Settings" on page 27*
18 May 2020	"Admins" changed to "Users" in the "Menu"

Date	Description
07 May 2020	Updated: ■ *"Account Settings" on page 27* - SSO is not currently supported with Microsoft Azure Active Directory (Azure AD).
30 April 2020	Updated: ■ *"Account Settings" on page 27* - Added reference to R80.40.
03 March 2020	General updates
16 December 2019	First release of this document

Table of Contents

Introduction to the Infinity Portal

Check Point's Infinity Portal is a comprehensive SaaS management solution that provides administrators with a centralized console to manage Check Point Infinity Portal services. With its range of capabilities, the Infinity Portal simplifies security management, improves visibility, and enhances security across the enterprise.

Use the Infinity Portal to manage services that include:

- **Centralized Security Management** - Provides a centralized console for managing security policies across different services.
- **Easy Deployment** - Allows administrators to quickly and easily deploy new security policies and configurations to all connected devices.
- **Real-Time Visibility** - Provides real-time visibility into security incidents and alerts, allowing administrators to quickly respond to threats and prevent security breaches.
- **Analytics and Reporting** - Provides detailed analytics and reporting capabilities, allowing administrators to monitor security performance and identify areas for improvement.
- **Simplified Compliance** - Provides a range of compliance features that help organizations meet regulatory requirements and maintain security standards.

This Administration Guide describes the host platform and the features that are the same for all the services.

See *"Getting Started with the Infinity Portal" on page 20*.

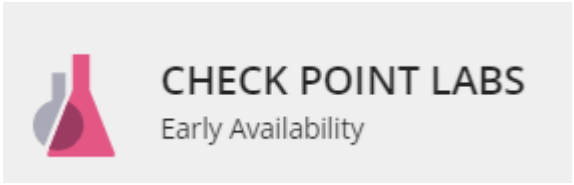
The onboarding process is different for different Infinity Portal services. When you open an Infinity Portal service for which you do not have a license, one or more of these options is available:

- Connect the service to a User Center account that has the required license.
- Try the product:
  - Use a free trial version of the service
  - Request a free demonstration of the service.

Available Services

In the Infinity Portal, in the top left corner, click the menu button  to see the available Infinity, Quantum, CloudGuard, and Harmony services.

Check Point Labs



This section shows new Infinity Portal services that are in Early Availability. It is updated regularly.

Getting Started with the Infinity Portal

Supported Browsers

The Infinity Portal supports these browsers:

- Mozilla Firefox version 29 and higher.
- Google Chrome version 33 and higher.
- Apple Safari version 7.1 and higher.
- Opera version 20 and higher.
- Microsoft Edge version 79.0.309 and higher.

How to Create an Account

An Infinity Portal account is necessary for access and management of the different SaaS services (such as Harmony Mobile or Infinity MDR-MPR). By default, a user who creates an account in the Infinity Portal receives primary administrator permissions. Use the primary administrator account to create child accounts, manage identities, and give access and privileges (such as *read-only*) to child account users in the portal. If necessary, add secondary administrator accounts through the use of *admin* privileges, which is especially applicable for MSP/Distributors.

The Infinity Portal saves these credentials and uses them for services on the portal. For more information about user privileges, see *"User Roles" on page 49*.

To create a new account in the Infinity Portal:

1. Go to the Infinity Portal.
2. Enter your company's **name**, **email address**, **phone number**, and **country**.

   Note - The account name cannot include special characters (!@#$%^&*, or other special characters).

3. Click **Select storage location...**.

   The **Available Regions** window opens and shows available services based on region. These regions are available for data storage:

- Europe (EU)
- USA (US)
- Australia
- Canada
- India
- United Arab Emirates
- United Kingdom

To see services available for a specific region, click the region name. A green check mark next to the service name indicates an available service for that region.

Best Practice - If you require a service that is not in your selected region, then Check Point recommends that you select a region with the necessary services. The migration of an account from region to region is not recommended.

4. Select the account type (**Customer** is the default type). It is possible to change the account type after the account is created.
5. Select these checkboxes:
   - Optional: **Subscribe to Check Point Product News**.
   - **I accept the Infinity Portal terms of service and the Privacy Policy.**
6. Follow the activation instructions in the email sent to your account.

   To go back to the sign-in page, click **Back to sign in** and sign in.

Notes:
- If you use SSO, it is not necessary to provide a password.
- Use the contract to associate your account with the User Center. To add products to your User Center account, contact Check Point Account Services, see sk22584.

How to Log in to your Account

To log in to your account:

1. Go to the Infinity Portal and enter your email address.
2. Select the **Region** to use.
3. Click **Next**.

To change your password:

1. Click **Forgot your Password?**.
2. Enter the account's email address and select **Send Email**.

   A new activation link is sent to your email address. Follow the instructions in the email to create a new password.

To go back to an expired session:

When your Infinity Portal work session ends, the expired session message shows.

To go back to your session, click **Next** and enter your password.

How to Delete your Account

After you delete an account, you cannot restore it. The Infinity Portal uses unique account names. If you delete an account, a different user can use the same account name.

Important Prerequisites:

- This account cannot be associated with a User Center account(s).
- This account cannot have a child account.
- To delete this account, you must be the Primary Administrator.

To delete your account:

1. Go to  > **General**.
2. Below **Delete Account** select **Delete this Account**.

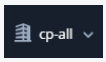
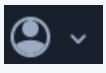
The Delete Account window opens. Make sure to read the important information.

3. In the text input field, enter the name of the account to delete.
4. Click **Delete Account**.

When the deletion is complete, the login screen opens.

Using the Navigation Menu

This table explains the different menu items for the Infinity Portal.

Icon	Item	Description
	Menu Button	Shows a list of available services for the Infinity Portal.
	Current Account	For administrators with multiple company accounts, use the down arrow to select an account. If you have only one account, the drop-down menu does not show.
	Help Button	■ **Admin Guide** - See online Administration Guide(s). ■ **Contact Support** - Use to create a service request. ■ **Service Status** - See the service(s) status and subscribe to the Check Point service Status to receive incident updates by email. ■ **Incident Response** - Issue an Under Attack notification to the Incident Response Team. ■ **Note** - For some services, use **Contact an expert** to send a message to an Infinity Portal expert.
	Account Settings	Opens a menu of settings for the Infinity Portal.
	Notification Indicator	Shows the number of notification messages about new events in the Infinity Portal service. To see the messages, click the bell icon.
	Profile Settings and Signing Out	■ **Profile Settings** - Edit or update your current profile details and settings. ■ **Sign Out** - Sign out of the Infinity Portal.

Profile Settings

The **Profile Settings** page displays the user's personal information.

On the **Profile Settings** page, you can:

- Update your user information
- Change your current password
- Enable Two-Factor Authentication

To open the Profile Settings page:

In the upper right corner of the screen, find the icon with your name 

:

- Click the user name, or
- Click the arrow next to the user name and select **Profile Settings**.

The Profile Settings page opens.

Changing Your Password

To change your current password:

To change the password, you must have administrator privileges.

1. In the **Profile Settings** page, go to **Change Password** > **Change**.
2. In the **Change Password** window, enter the previous password.
3. Enter a new password and confirm it. Follow this password policy:
   - The password must be at least 10 characters long.
   - The password must contain at least one lowercase letter.
   - The password must contain at least one uppercase letter.
   - The password must contain at least one number.
   - The password must contain at least one special character.
4. Click **Apply**.

Note - This password is valid for all the SaaS services on the Infinity Portal.

Two-Factor Authentication (2FA)

When two-factor authentication is turned on through your **Profile Settings**, you must use 2FA to log in to all Infinity Portal user accounts to which you have access. For information about enforcing and resetting 2FA for other users, see *"Two-Factor Authentication (2FA)" on page 40*.

To configure 2FA for your Infinity Portal user account:

1. Download one of these authenticator applications to your mobile phone:
   - Google Authenticator
   - Microsoft Authenticator
   - Authy
2. In the Infinity Portal, click your user name 

in the upper-right corner to open the **Profile Settings** page.
3. Verify your mobile phone number for 2FA:
   a. In the **Phone Number** field, enter your mobile phone number.
   b. Click **Send code**.

      Check Point sends an SMS to your phone with a six-digit code.
   c. Enter the code in the **Enter code** field.
   d. Click **Verify**.
4. **Optional** - To set 2FA for all Infinity Portal accounts, toggle the **Two-factor Authentication (2FA)** switch to **ON**.

   The **Two-Factor Authentication (2FA)** configuration wizard opens.
5. Follow the on-screen instructions to connect the authentication app with the Infinity Portal.

   Note - If you did not verify your phone number in the **Profile Settings** window, you must verify it in the **Two-Factor Authentication (2FA)** configuration wizard.
6. Click **Finish** to close the wizard.

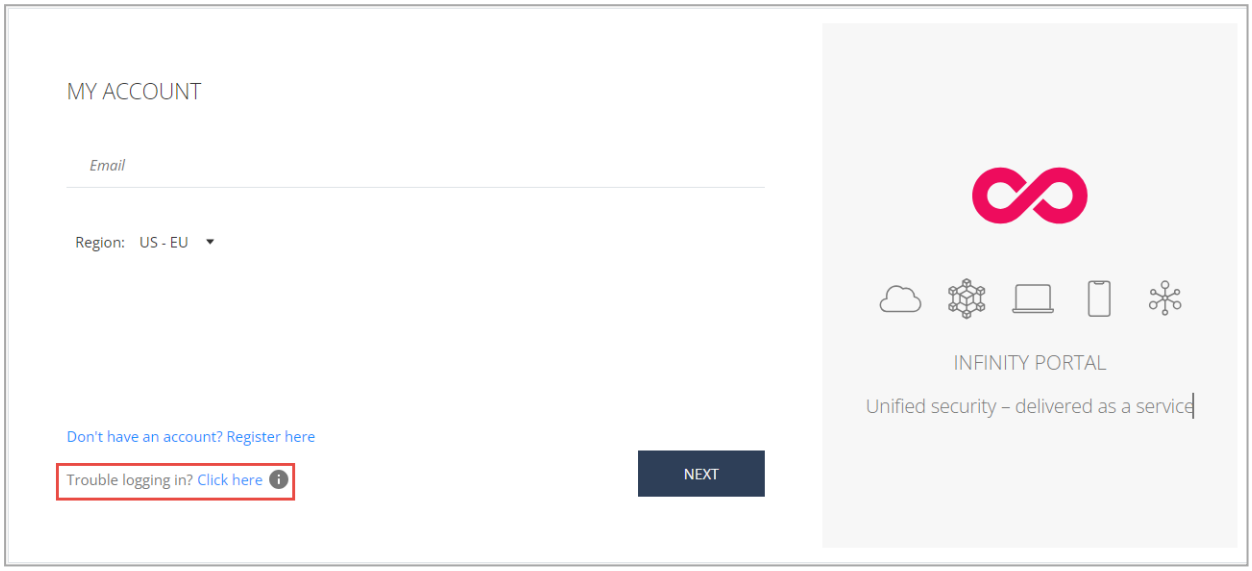
SSO Bypass for Primary Administrators

Important - SSO Bypass is for Primary Administrators only. For information about users and roles, see *"Users" on page 49*.

In some cases, SSO issues can cause difficulties and prevent access to the Infinity Portal. The SSO Bypass feature enables Primary Administrators to log in to the portal with their username and password, bypassing the Infinity Portal's SSO authentication procedure.

To use SSO Bypass:

1. On the Infinity Portal login page, to the right of **Trouble logging in**, click the **Click here** button.



2. Enter the username and password, or click **Forgot your password? Don't have one?**

   For more information, see *"How to Log in to your Account" on page 22*.

3. Click **Next** to log in.

Account Settings

Account settings are the default values in the Infinity Portal that apply both locally and system-wide.

To configure or edit the Account Settings:

1. From the top toolbar, click  .
2. Select a setting from this list:
   - *"General" on page 28*
   - *"Identity & Access - Identity Providers" on page 31*
   - *"Users" on page 49* (appears only for an administrator account with **User Admin** permission)
   - *"User Groups" on page 54* (appears only for an administrator account with **User Admin** permission)
   - *"Audits" on page 57*
   - *"Usage" on page 62*
   - *"Services & Contracts" on page 59*
   - *"API Keys" on page 64*
   - *"Event Forwarding" on page 67*

General

In the **General** section, view and configure general account details.

Account Details

The portal shows these account details:

- **Account ID** - The Account ID field contains a unique ID for this account, which the Customer support or Sales staff requests to troubleshoot incidents or enable a feature.
- **Registration Date** - The date when the account was initially registered in the Infinity Portal.
- **Primary Contact** - The primary administrator who functions as a focal point for all future correspondence with Check Point.
- **Data Residency** - The geographic region where your organizational data is stored. You can select the region only when you create an Infinity Portal account. For more information, see *"How to Create an Account" on page 20*.

Account Type

These account types are available in the Infinity Portal:

- **Customer** - A standalone account that has no child accounts related to it.
- **Partner - Distributor / Reseller** - Create and manage MSSP child accounts, but do not control them or change their security policy.
- **Partner - MSSP** - Create and manage child (customer) accounts, log in to the accounts, fully control them, and manage their security policy. For more information about MSSP accounts, see the Infinity Portal MSSP Administration Guide.

Editing Account Details

These fields are read-only:

- Account ID
- Unique Login URL
- Account Type
- Account Registration Date
- Primary Contact Email (to edit the Primary Contact, see *"Users" on page 49*

If the account is **not** a child account, you can edit the Account Name field in the **General** section. If the account is a child account, you can edit these fields only from the parent account.

To change the Account Name:

1. Next to the account name, click the button.
2. Enter a new name for the account.
3. Click the button.

Support Mode

Sometimes, Check Point's Support teams cannot reproduce customer problems in the Infinity Portal. For example, the local browser or the network configuration causes the problem. The use of a logger token or HAR file for troubleshooting the problem is time-consuming and not easy to examine and find the root cause. Support Mode bypasses these problems and allows a Check Point Support employee from any region to access an account on behalf of the account's users to find and correct issues.

Important - Each access request is for 72 hours and requires the user's approval.

How to Set Up Support Mode

By default, the Support Mode is **OFF**. When Support Mode is off, no Support User can request to log in through Support Mode. Users who are not the account's Primary Administrator can see the Support Mode's status, but cannot change it.

Note - Only Primary Administrators can enable Support Mode.

To turn Support Mode on:

1. Log in to your Infinity Portal account.
2. Go to > **General**.
3. Below **Support**, move the **Support Mode** toggle to **ON**.

Delete Account

Account deletion is permanent.

To delete an account:

1. Make sure the account meets the requirements listed in the **Delete Account** section.
2. Click **Delete This Account**.

A confirmation window opens.

3. Confirm the account deletion.

Identity & Access - Identity Providers

In Identity & Access, add an Identity Provider (IdP) to authenticate your organization's users through SSO (Single Sign-On). In addition, the use of an Identity Provider gives you the control to set permissions and policies based on the organization's identities. When logged in to the Infinity Portal, you get access through SSO to all of the different services offered through the portal, such as Harmony Endpoint, or Quantum Smart-1 Cloud.

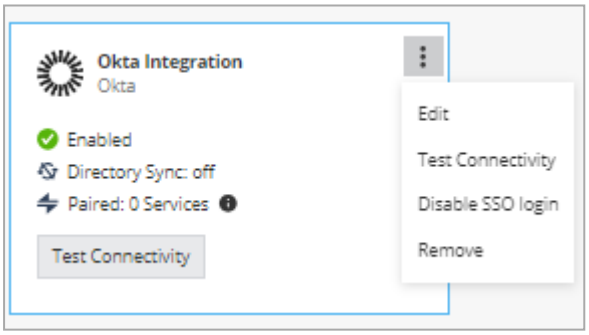
Note - You can set a maximum of five different Identity Providers for each account.

How to Integrate with an Identity Provider

1. Below **Identity Providers**, click the plus icon.
   The Integration wizard opens and shows a list of Identity Providers.
2. For the specific Identity Provider, go to the **SSO Authentication** page and open the instructions. See *"SSO Authentication Setup with Identity Provider" on page 76*.

How to Change an Identity Provider Integration

1. In the Infinity Portal go to > **Identity & Access**.
2. On the Identity Provider (IdP) card, click .



3. Click one of these options:

- **Edit**

  The **IDP INTEGRATION** window opens.

  You can edit configurations in the **IDP INTEGRATION** window. For more information, see the configuration instructions for the Identity Provider:

  - *"Microsoft ADFS" on page 80*
  - *"Microsoft Entra ID (formerly Azure AD)" on page 85*
  - *"Okta" on page 101*
  - *"OneLogin" on page 116*
  - *"Ping Identity" on page 129*
  - *"PingFederate" on page 145*
  - *"Generic SAML Server" on page 148*
  - *"Google Workspace" on page 150*
  - *"Duo" on page 164*
  - *"RADIUS" on page 166*

  Note - When you edit an IdP configuration, remote users are disconnected after you apply the changes.

- **Disable** - Stops the SSO. The existing SSO authentication details stay in the system. You can start the authentication again, if necessary.
- **Remove** - Deletes the existing SSO authentication details. If you configure the SSO authentication with a different SSO provider, then Infinity Portal does not keep the former provider's details.
- **Test Connectivity** - Tests connectivity between the IdP and Check Point SSO authentication.

How to Regenerate a SCIM API Token

If you configured a SCIM API token and it is expired, near its expiration date, or lost, then regenerate the token.

1. In the Infinity Portal go to  > **Identity & Access**.
2. On the relevant Identity Provider (IdP) card, click ⋮.
3. Click **Edit**.

   The **IDP INTEGRATION** window opens.
4. Open the **Set Directory Integration** tab.

5. Click **Regenerate Token**.

   Important - After you click **Regenerate token**, Infinity Portal creates a new token that overwrites the existing token.

6. Copy and save the **SCIM API Token**.
7. Copy and save the URL.
8. In a new browser tab, open the IdP's portal. Keep the Infinity Portal open.
9. In the IDP's portal:
   a. Paste the URL from the Infinity Portal.
   b. Paste the **SCIM API Token** from the Infinity Portal.
   c. Test the connectivity.

   For details, see SCIM configuration instructions for Microsoft Entra ID or for Okta.
10. In the Infinity Portal, click **Apply**.

Integration Type for an Identity Provider

A unique URL is a link to a specific web address (in this case, an Infinity Portal account). This URL is unique because it includes authentication information that allows the Infinity Portal to give or deny access based on a preconfigured IdP authentication procedure. If you have multiple Infinity Portal accounts, you may want to use the same IdP for all accounts to simplify user management. Alternatively, you may select to use a unique URL for specific accounts to provide additional security or control.

Login based on domain verification

- Your IdP is associated only with one Infinity Portal account.
- Users log in through the Infinity Portal login page.
- Require domain validation.

Without a unique URL, to log in to the Infinity Portal, users first enter a preconfigured domain (domain verification) that has been set up by the administrator. To validate the user's credentials, the portal sends them to the configured IdP. If the IdP authenticates the user, access to the Infinity Portal is given and the user is directed to the last opened account.

If the domain is configured with more than one IdP, the portal uses an IdP discovery page to validate the user.

Login with a unique URL (Recommended as a Best Practice)

- Your IdP is associated only with multiple Infinity Portal accounts, which are managed separately.
- Users can login to the Infinity Portal with the unique URL.

Unique URL removes the domain verification requirement from *mandatory* to *optional*. In addition, the unique URL gives users a direct link to a specific Infinity Portal account. To do this, the portal uses the IdP configured for the account.

In this illustration, users click a unique URL to get access to the ACME account, `https://portal.checkpoint.com/signin/ACME`. The portal then validates the user through the IdP configured for the account, in this case, Okta.

In addition, Infinity Portal administrators or account managers can select one IdP to manage multiple accounts without domain verification. For instance, in this scenario, Okta serves as the IdP for three Infinity Portal accounts labeled as "a," "b," and "c." Even though each account uses Okta as its IdP, the login URLs for each account are distinct, which means that users must access each account through its unique URL

Notes:

- When you log in with a unique URL, the authentication is only through SSO and not as a local user (as in username and password).
- The unique URL for the login procedure is not dependent on domain verification.

Before you start

- Make sure that you know how to set up an identity provider in the Infinity Portal, see *"SSO Authentication Setup with Identity Provider" on page 76*.
- To add the same domain name for a new account is not allowed. When there is no selected domain name, the user can log in only through the unique URL, see *"SSO Authentication Setup with Identity Provider" on page 76*.
- Existing Infinity Portal users can continue to log in through the Global URL (`portal.checkpoint.com`) as long as there is a domain configured. Or they can use the unique URL.

To configure the unique URL

1. In the Infinity Portal, go to  > **Identity & Access** and select an Identity Provider.

   For specific IdP instructions, see *"SSO Authentication Setup with Identity Provider" on page 76*.
2. In step two **Integration Type**, select **Login with a unique URL**.
3. Click  to copy the unique URL. Make sure to save the URL.
4. To continue, click **Next** and follow the IdP Integration steps.

To see or copy the account unique URL

1. In the Infinity Portal, go to  > **General**.
2. The **Unique Login URL** shows below the account's name.
3. To copy the URL, click  .

Directory Integration

How to Set Up Directory Integration

Directory Integration lets Check Point services take information about users and groups from an Identity Provider. To configure Directory Integration, enter credentials from the Identity Provider in the Infinity Portal. After you finish configuring Directory Integration, the Identity Provider and the Check Point services synchronize. The Check Point services then pull information about users and groups from the Identity Provider.

Notes:

- Directory Integration is available for these IdPs: Azure, Okta, and Ping Identify.
- Before you can set up Directory Integration, you must configure the Identity Provider.

To set up Directory Integration:

1. Navigate to  > **Identity & Access**.
2. Below **Identity Providers**, on the IdP tab click ⋮. If the IdP is already configured, then click **Next** until you get to step 5 **Set Directory Integration**.
3. In **Set Directory Integration**, enter the necessary credentials for directory synchronization to connect to the IdP.
4. To test the connection between the IdP and the Infinity Portal, click **Test Connectivity**. If the connection test passes, then the check mark icon shows as green. If the connection test does not pass, make sure the correct credentials were entered.
5. Click **Next**.

Important - For users whose IdP is integrated with the Infinity Portal, but do not want to synchronize their IdP objects to the Infinity Portal, select the checkbox **I want to skip this step and use this IdP for SSO authentication only**.

Auto-Match Roles for Services

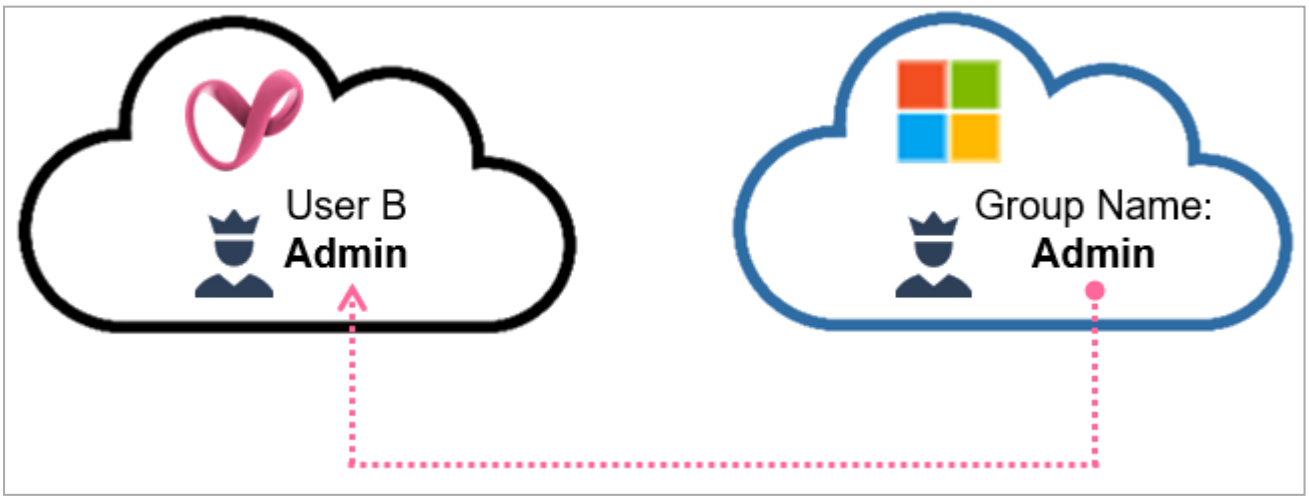
Assigning roles to users can be a complex and time-consuming task, especially in organizations with a large number of users. Auto-Match reduces the workload of administrators with the automation of service role assignments. Auto-Match is based on the IdP's groups' names. This means that with Auto-Match you can match the user's existing IdP group name and assign them a corresponding ("matching") service role in the Infinity Portal. If a user is a member of more than one group in their IdP, select the applicable group name to be used in the Infinity Portal.

Example 1: User A belongs to a group named "Read-Only" in their Okta portal. When User A is added to the Infinity Portal, the portal automatically assigns them a "Read-Only" service role. This means that User A is given restricted access to the Infinity Portal and can only see or read information.

Example 1: Read-Only

Example 2: User B is a member of a group named "Admin(s)" or "Administrator(s)" in Microsoft ADFS. After they are added to the Infinity Portal, the user is automatically assigned an "Admin" service role.

Example 2: Administrator



For more information about Configuring Users in the Infinity Portal, see *"Users" on page 49*.

Note - The Auto-Matched Roles do not override the existing service roles.

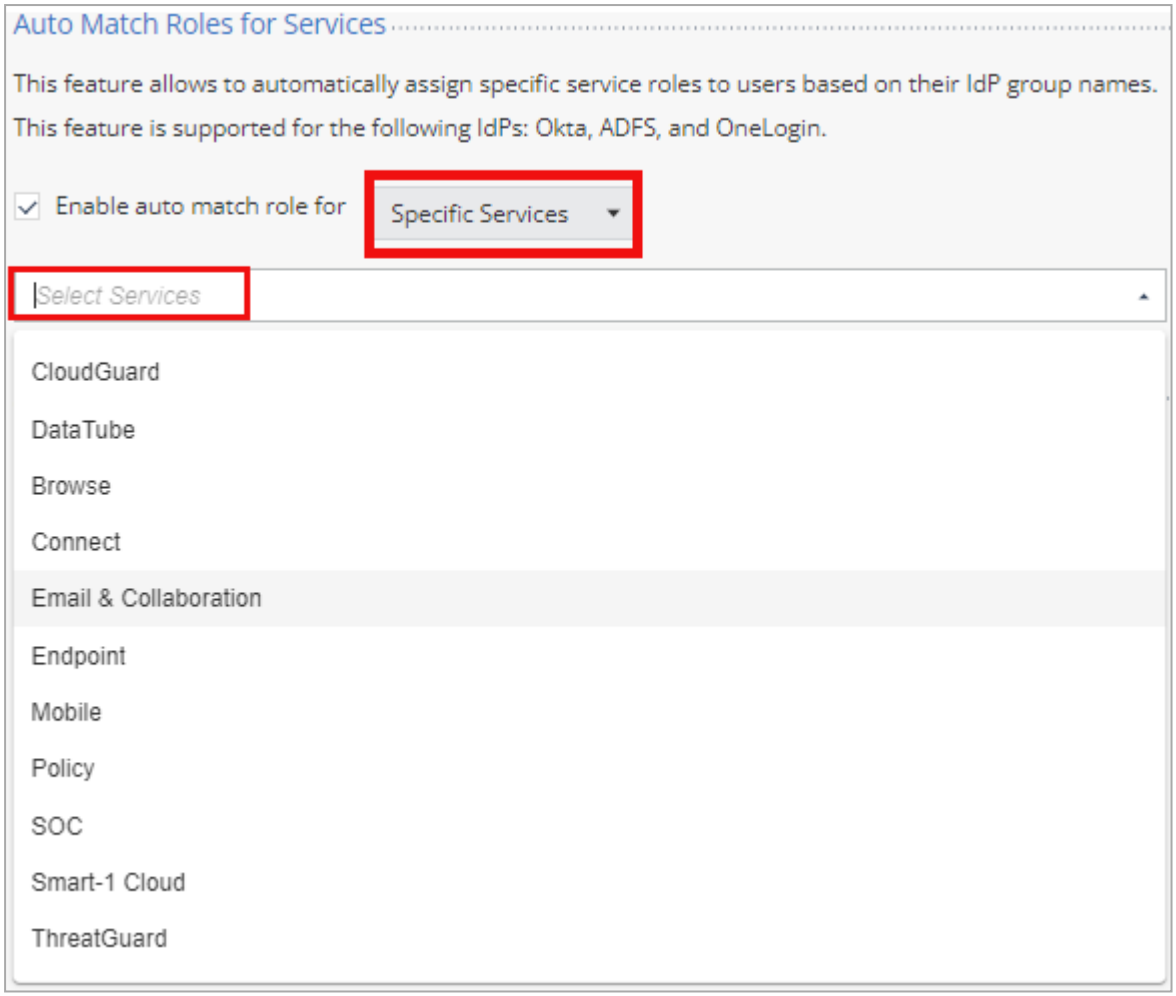
Supported IdPs:

- Okta
- Microsoft ADFS
- OneLogin

To configure Auto-Match Roles

1. In the Infinity Portal go to  > **Identity & Access**.
2. In the **Auto Match Roles for Services** section, select the checkbox **Enable auto match role for**.
3. To enable Auto-Match for all of your Infinity Portal services, select **All Services**.

   Or,
4. To enable Auto-Match for specific service(s), select **Specific Services** and in the **Select Service** tab, select which service(s) to enable Auto-Match.



5. The Infinity Portal automatically saves your settings.

Sessions

Below the Sessions section, two parameters determine how a session is conducted.

Force Login After

The **Force Login After** feature limits your work time. The system prompts you to log in again after the designated period and renew your session. To configure Force Login After, select one of the periods of activity. The default is one day.

Idle Session Timeout After

The Idle Session Timeout After feature limits your current session time. The system prompts you to renew your session when no activity occurred after the designated period. It is not necessary to log in. To configure this feature, select one of the periods of inactivity. The default is 15 minutes.

Two-Factor Authentication (2FA)

Two-Factor Authentication (2FA) is an additional layer of security for the Infinity Portal. When 2FA is required, Infinity Portal users must use an authentication app or SMS code to confirm their identities before they get access to the Infinity Portal.

An organization can configure and manage 2FA as part of Single Sign-On (SSO) with an Identity Provider. For example, an organization requires 2FA as part of user authentication through Microsoft Entra ID (formerly Azure AD). Infinity Portal users who log in through Microsoft Entra ID authenticate themselves with 2FA according to the policy configured by the organization's Microsoft Entra ID administrator.

Creating and Editing 2FA Configurations for Your User Account

Verify your phone number

1. In the Infinity Portal, click your user name 

in the upper-right corner to open the **Profile Settings** page.
2. Verify your mobile phone number for 2FA:
    a. In the **Phone Number** field, enter your mobile phone number.
    b. Click **Send code**.

       Check Point sends an SMS to your phone with a six-digit code.
    c. Enter the code in the **Enter code** field.
    d. Click **Verify**.

Configure an authentication app for 2FA

1. Download one of these authenticator applications to your mobile phone:
    - Google Authentication
    - Microsoft Authenticator
    - Authy
2. In the Infinity Portal, open the **Profile Settings** page. In the upper-right corner:
    - Click the user name, or
    - Click the arrow next to the user name > **Profile Settings**.

    The **Profile Settings** window opens.
3. Toggle the **Two-Factor Authentication(2FA)** switch to **ON**.

    The **Two-Factor Authentication (2FA)** configuration wizard window opens.

4. Follow the on-screen instructions to connect the authentication app to the Infinity Portal.

   Note - If you did not verify your phone number in the **Profile Settings** window, you must verify it in the **Two-Factor Authentication (2FA)** configuration wizard.

5. If you want to require yourself to use 2FA for all Infinity Portal accounts, keep the toggle on. If you want to use 2FA only when required by a Primary Administrator of an account, switch the toggle to **OFF**.

6. Click **Finish** to close the wizard.

Require yourself to use 2FA for all Infinity Portal accounts

You can require yourself to use 2FA every time you log in to the Infinity Portal, even when the Global Administrator of the Infinity Portal account does not require 2FA.

Configuring 2FA for your account:

1. In the Infinity Portal, open the **Profile Settings** page. For this, in the upper-right corner:

   - Click the user name, or
   - Click the arrow next to the user name and select **Profile Settings**.

   The **Profile Settings** window opens.

2. Toggle the **Two-factor Authentication (2FA)** switch to **ON**.

   If you do not have an authentication app configured, the **Two-Factor Authentication (2FA)** configuration wizard window opens. Follow the steps in the wizard to configure an authentication app or to require 2FA through SMS.

   Note - If you did not verify your phone number in the **Profile Settings** window, you must verify it in the **Two-Factor Authentication (2FA)** configuration wizard.

3. Click **Finish.**

Managing 2FA for Infinity Portal Users

An Infinity Portal **Primary Administrator**, **Admin**, or **User Admin** can view and reset a user's 2FA configuration.

View users' 2FA configurations

In the Infinity Portal, click  > **Users**.

The **2FA configured** column of the table shows one of these 2FA configurations for each user:

Icon	2FA Configuration
	The user does not have 2FA configured.
By app	The user has 2FA configured with an authenticator app.
By phone	The user has 2FA configured with SMS.
App and phone	The user has 2FA configured with an authenticator app and with SMS.

The 2FA table row shows you the 2FA authentication method(s) that the user configured for himself in **Profile Settings**. This table row is not related to the 2FA enforcement policy for the tenant.

Reset a user's phone number

Reset a user's phone number in these scenarios:

- The user gets a new phone with a new number.
- The user's phone is lost or stolen.
- The user has a problem using 2FA with SMS.

To reset the user phone number:

1. In the Infinity Portal, click  > **Users**.
2. Click the table row with the name of the user.
3. Click **Edit**.

   The **Edit User** window opens.
4. In the **Phone number** field, enter a phone number for the user.
5. Click **Save**.

Reset a 2FA application for a user

Reset an authentication app for a user when the user gets a new phone (with the same phone number) or has a problem with the app.

After the reset, if 2FA is required for account login, Check Point sends an SMS with an authentication code to the user's verified phone number. Then, the user can log in to the Infinity Portal and create a new authenticator app configuration (see *"Configure an authentication app for 2FA" on page 40*).

To reset a 2FA application:

1. In the Infinity Portal, click  > **Users**.

   The **2FA configured** column of the table shows one of these 2FA configurations for each user:

Icon	2FA Configuration
	The user does not have 2FA configured.
 By app	The user has 2FA configured with an authenticator app.
 By phone	The user has 2FA configured with SMS.
 App and phone	The user has 2FA configured with an authenticator app and with SMS.

2. Select a user from the table and click **Reset 2FA**.
3. To see updated user information, click **Refresh**.

Enforcing 2FA Policy for All Users

A **Primary Administrator** can set a 2FA policy for all users who log in to the Infinity Portal account.

Enforce 2FA for all users of the Infinity Portal account

2FA enforcement settings in the **Identity & Access** page apply to all users of this Infinity Portal account. Only a **Primary Administrator** can change these settings.

1. In the Infinity Portal, click  > **Identity & Access**.
2. In the **Two-Factor Authentication (2FA)** section, select when to enforce 2FA:
   - **Enforce Two-Factor Authentication for every login to this account** - Users must use 2FA to log in with username and password and for login with SSO through an Identity Provider (IdP).
   - **Enforce Two-Factor Authentication for login with username and password** - This option is selected by default.

   A confirmation window opens.
3. In the confirmation window, click **Enforce**.

Remember 2FA settings for 14 days

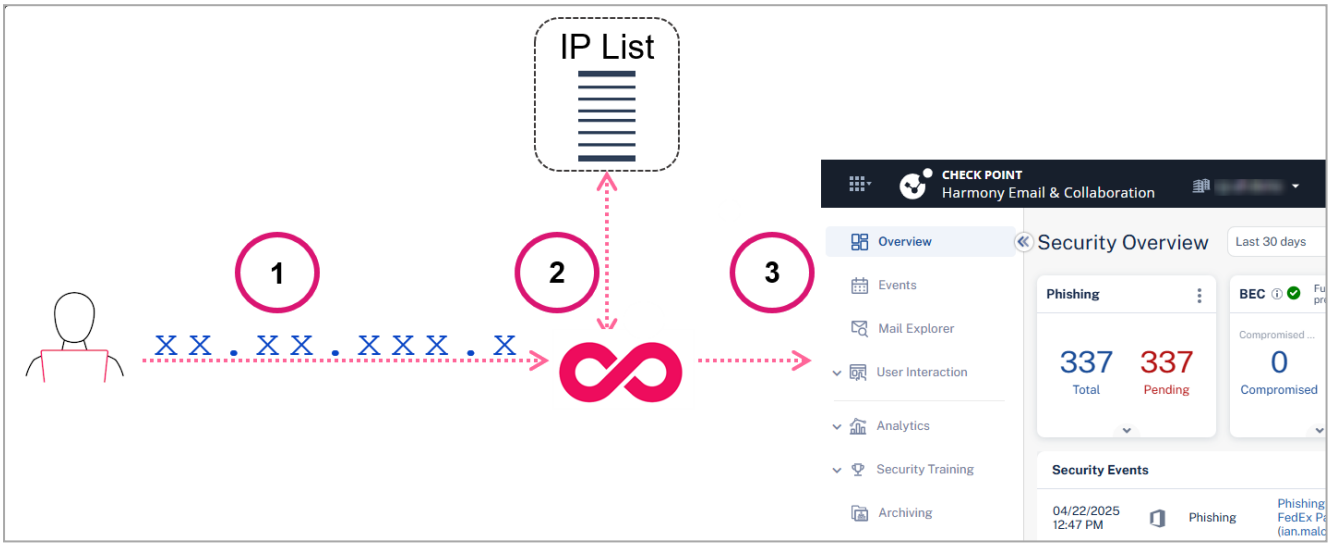
A **Primary Administrator** can allow Infinity Portal users to bypass the 2FA verification for 14 days after they successfully sign in to the Infinity Portal with a trusted device.

1. In the Infinity Portal, click  > **Identity & Access**.
2. In the **Two-Factor Authentication (2FA)** section, select **Allow users to remember their 2FA settings on trusted devices for 14 days**.

When users enter their verification code on their login to the Infinity Portal, they can select the option **Remember this device for 14 days**.

Restrict Account Access

In addition to SSO and Two-Factor Authentication access control, you can configure a list of IP addresses as an added layer of security. This means that for your users to get access to the Infinity Portal, the administrator must add their IP address to an IP access list. The Infinity Portal automatically blocks attempts to enter the portal from an IP address that is not on the IP Access List.



Item	Description
1	User logs in with their IP address.
2	The Infinity Portal makes sure that the IP address is on the IP Access List.
3	The user gets access to the portal.

Prerequisite:

To add IP addresses to the list, you must be an Administrator.

Configuring IP Access List

Follow these guidelines to configure the IP Access List (allowlist):

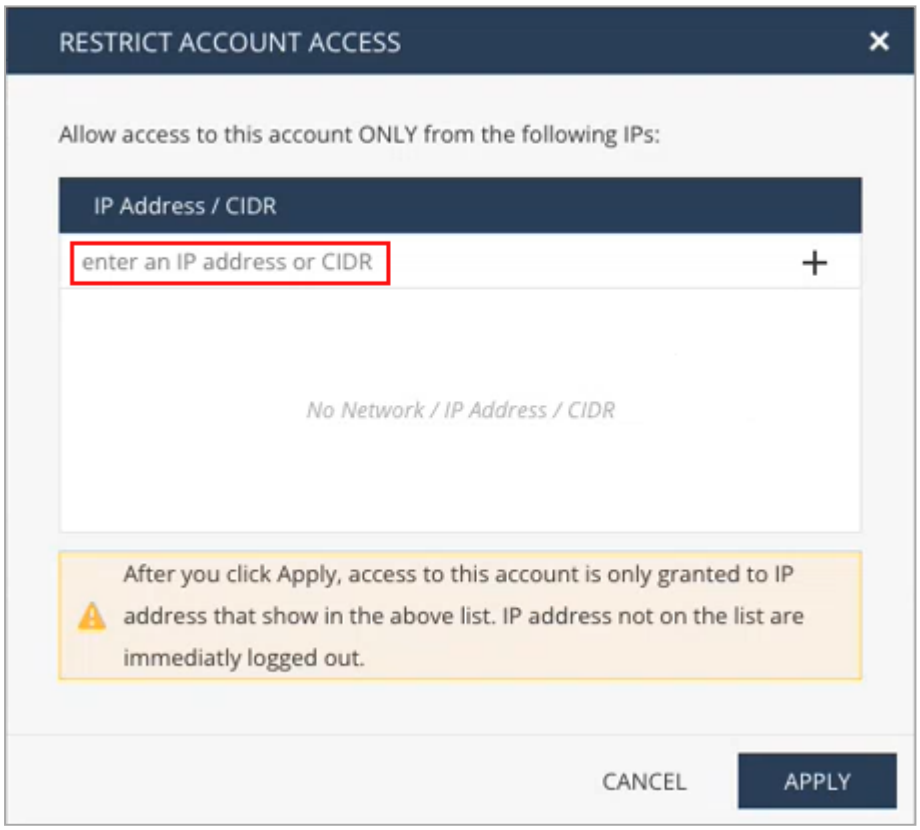
- Add the **public IP addresses** of the network or device from which users access the Infinity Portal account.
- Add **all public IP addresses** that are part of the routing to the Infinity Portal to the allowlist.

- When users are working from home without a VPN, preserve the client's Internet Service Provider public IP address (make sure that the original public IP address assigned by the client's ISP is retained or visible) and add it to the allowlist.
- For VPN users with a proxy, add the public IP address of the VPN gateway NAT to the allowlist. Make sure all users accessing the account through the VPN use the same gateway or a known set of gateways.

Note - In general, add only public IP addresses to the allowlist, not private or internal IP addresses. Public IP addresses are those visible to external services. Find them with online tools like "What is my IP" or consult with your network administrator.

To define a list of IP addresses or IP range (CIDR):

1. From the main menu, select  > **Identity & Access**.
2. Below **Restrict Account Access**, select the check box and click **Define access list**.
3. In the **Restrict Account Access** window, below **IP Address / CIDR**, enter a public IP address or a range of public IP addresses (CIDR). For example, `xx.xx.xxx.x` or `xx.xx.xxx.0/32`. To add more IP addresses, click the plus icon.



Caution - Before you complete step 4, each user that is logged in to the account with an IP address that does *not appear* on the list is immediately logged out of the Infinity Portal.

4. To save, click **Apply**.

Firewall IP Allowlist

If it is necessary to configure your firewall to allow Check Point Infinity Portal backend IP address, then use the DNS name for the specific region as listed in this table.

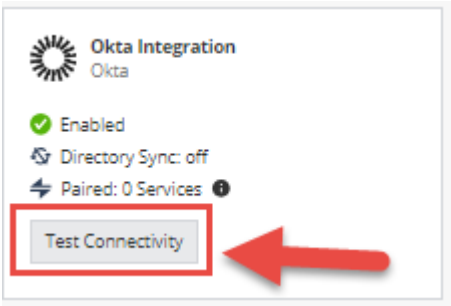
Region	DNS Name
All	`whitelist-cidr.portal.checkpoint.com`
US	`whitelist-cidr.us.portal.checkpoint.com`
EU	`whitelist-cidr.eu.portal.checkpoint.com`
AP	`whitelist-cidr.ap.portal.checkpoint.com`
UK	`whitelist-cidr.uk.portal.checkpoint.com`
IN	`whitelist-cidr.in.portal.checkpoint.com`

Testing IdP Connectivity

In addition to the test connectivity step in the IdP directory configuration, it is possible to test the IdP connectivity any time *after* the configuration with the **Test Connectivity** option. This test allows administrators to make sure that the IdP setup is correct and if any issues with the connection exist.

To test IdP connectivity:

1. In the Infinity Portal, select  > **Identity & Access**.
2. Below **Identity Providers**, for the specific IdP click **Test Connectivity**.



3. Click **Run test** and enter your credentials.

   A page with success or failed messages shows.

Users

The **Users** page shows a table of all users in the Infinity Portal account. You can sort the table.

For information about requiring users to use Two-Factor Authentication (2FA), see *"Two-Factor Authentication (2FA)" on page 40*.

User Roles

You can assign Global Roles and Specific Service Roles to users. Global Roles apply to the entire Infinity Portal. Specific Service Roles apply to specific Infinity Portal services (for example: Harmony Email & Collaboration).

Global Roles

Global Roles apply to the Infinity Portal Account Settings and all Infinity Portal Services. You can assign more than one Global Role to a user. These are the types of Global Role:

Global Role	Privileges for Infinity Portal Account Settings	Privileges for Infinity Portal Services
Read Only	Read Only	Read Only
User Admin	Can do every action in the **Users** section and the **User Groups** section (see *"User Groups" on page 54*). Has Read Only access to the other Account Settings.	The **User Admin** role does not include access to Infinity Portal services. To give this user access to Infinity Portal services, do one or both of these: ▪ In addition to the **User Admin** Global Role, assign the user a **Read Only** Global Role. This gives the user Read Only privileges for all Infinity Portal services. ▪ In addition to the **User Admin** Global Role, assign the user one or more Specific Service Roles for Infinity Portal services. For example, you can assign the user an **Admin** role for the Harmony Email & Collaboration service. See *"Specific Service Roles" on page 51*.
Admin	Can do every action in the Infinity Portal, except for actions that only a **Primary Administrator** can do (see below).	Admin

Global Role	Privileges for Infinity Portal Account Settings	Privileges for Infinity Portal Services
Primary Administrator	Can do every action in the Infinity Portal. These are the actions that only a Primary Administrator can do: In the **General** section (see *"General" on page 28*): ■ Change Primary Contact ■ Enable Support Mode In the **Identity & Access** section (see *"Identity & Access - Identity Providers" on page 31*): ■ Disable Idle Session Timeout (not recommended) ■ Enforce Single Sign-On (SSO) for all users ■ Enforce Two-Factor Authentication (2FA) for every login to the account ■ Enforce Two-Factor Authentication (2FA) for every login to the account with a local username	Admin

Specific Service Roles

A Specific Service Role applies to one Infinity Portal service (for example, Harmony Email & Collaboration). Specific Service Roles are separate from Global Roles and do not override them. In some services, you can assign more than one role to a user. In other services, you can assign only one role to a user.

Viewing User Information

View User information

1. Go to  > **Users**.
2. To see updated user information, click **Refresh**.

Add or remove columns from the table

1. Right-click the top row of the table that contains the names of the columns.

   A list of column names opens.
2. Select columns to show in the table.

   Only the selected columns appear in the table.

Filter the table

1. In the **Search** field, click **Filter**  .

   The **Filters** pane opens.
2. To find specific users, enter these details:
   - Name
   - Email
   - etc.
3. To clear the filter, click **Clear All**.

Export the information in the table

1. Click **Export**.

   Your web browser downloads a ZIP file.
2. When download is complete, save the file to your computer and extract the content in CSV file).
3. Open the CSV file in an application (for example, Microsoft Excel).

Adding and Editing User Accounts

Add Users to the Infinity Portal account

You can invite users to the Infinity Portal account that you manage as an administrator. After you invite a user, the Infinity Portal sends an invitation to the user in an email. To accept the invitation, the user must click a link in the email. The invitation is valid for 30 days.

Note - All fields marked with an asterisk (*) are mandatory.

1. Navigate to  > **Users** and click **New** on the toolbar.
2. In the **Name** field, enter a name for the user.
3. In the **Email** field, enter the new user's email address.
4. In the **Phone** field, enter the user's phone number:
   a. Select a region from the list.
   b. Enter the phone number.
5. In the **User Groups** field, select *"User Groups" on page 54* for the new user from the list. You can select multiple User Groups for each user.
6. In the **Global Roles** field, select roles for the new user from the list. You can select multiple roles for each user.
7. Select **Specific service roles** to assign to the user.
8. Click **Add** to save or **Cancel** to exit without saving the new user.

   The user shows with the *Pending* status on the full users list.
9. When the user receives the email invitation and clicks the **accept the invitation** link, the Infinity Portal checks if this is a new or existing user.
   - For new users, the Infinity Portal opens with the activation screen and a request to set up a new password. The password policy shows on the same page.
     a. The user enters the password, confirms it, selects *I accept the Infinity Portal terms of service and the privacy policy* and clicks **Activate**.
     b. The Infinity Portal activates the user.
   - For existing users, the Infinity Portal approves the user and shows an approval message.

   The Infinity Portal adds the user to the account and changes their status from *Pending* to *Active*.
10. The user clicks **Back to sign in** and logs in to the Infinity Portal. New users must enter their email and password.

When the user logs in to the Infinity Portal, the account appears in the dropdown menu on the top toolbar.

Edit Users

1. Select the user from the list and click **Edit** on the toolbar.
2. Make the required changes. You can edit the user's name, phone number, User Groups affiliation, and Global and Specific Service Roles.
3. Click **Save**.

Delete Users

Note - This procedure is relevant only for users that were created manually in the Infinity Portal. To delete a user that was imported from a group in an Identity Provider, you must remove the user from the group in the Identity Provider's portal. For example, if Alice is part of the "Check Point Admins" group in Microsoft Entra ID, you can delete Alice's user profile only in the Microsoft Entra ID portal. For more information about user groups, see *"User Groups" on page 54*

1. Select the user from the list and click **Delete** in the toolbar.
2. In the confirmation window, click **Delete**.

User Groups

On this page, you can manage User Groups and their roles in your Infinity Portal account. Each User Group has a unique name. A user can belong to multiple User Groups. You can add users to a group who are defined manually in the Infinity Portal, or import a group from an Identity Provider (IdP).

Managing User Groups

To add a new User Group

Note - All fields marked with an asterisk (*) are mandatory.

1. Go to  > **User Groups**.
2. In the toolbar, click **New**.

   A wizard window opens.
3. In the **Group Details** step of the wizard, enter this information:
   a. **Name**
   b. **Description**
   c. For **Group Source**, select **one** of these options:
      - **Manually** - Select this option to add only users who are defined manually in the Infinity Portal.
      - **IdP directory Sync** - Select an Identity Provider (IdP) and a group to import. The Infinity Portal automatically synchronizes group membership information from the IdP. This option is available only for an IdP that is integrated with the Infinity Portal and has Directory Sync enabled. See *"SSO Authentication Setup with Identity Provider" on page 76*.
      - **IDP ID** - Enter the ID of a group as it appears in your Identity Provider (IdP). This option is available only for an IdP that is integrated with the Infinity Portal. See *"SSO Authentication Setup with Identity Provider" on page 76*.

      Note - In an **IdP directory sync** configuration, the Infinity Portal synchronizes group membership with the IdP on a regular basis. In an **IDP ID** configuration, the Infinity Portal queries the IdP for each login event.

   d. Click **Next**.

4. **Optional -** In the **Members** step of the wizard, add more members to the group. These additional members must be defined manually in the Infinity Portal.

    a. Click **Add member**.

    A new window opens.

    b. Select users to add to the group.

    c. Click **Next**.

5. In the **Access and Roles** step of the wizard, assign roles to the user group:

    a. Assign **Global Roles** to the group. See *"Global Roles" on page 49*.

    b. Assign **Specific Service Roles** to the group. See *"Specific Service Roles" on page 51*.

    Example - When you select **Support Contact Point** for Harmony Connect in your **Harmony Admins** user group, this role automatically applies to users in the **Harmony Admins** Group.

6. Click **Add**.

    The new User Group appears in the table.

Note - You can create a User Group without members and add the members later.

To edit an existing User Group

Note - If in the **Accounts** tab you configured a User Group to be associated with a child account automatically, you can edit this User Group only from the parent account.

Important - Immediately after you remove a user from a User Group, the user loses permissions that were based on the group.

1. Go to  > **User Groups**.
2. Select the User Group that you want to edit.
3. Click **Edit**.

    A new window opens.

4. Make changes to the User Group.
5. Click **Save**.

To remove a User Group

1. From the list, select the User Group.
2. Click **Delete**.

To add or remove columns from the table

1. Right-click the top row of the table that contains the names of the columns.

   A list of column names opens.
2. Select columns to show in the table.

   Only the selected columns appear in the table.

To filter the table

1. In the **Search** field, click the Filter icon  .

   The **Filters** pane shows on the right side of the Dashboard.
2. Apply one or more filter criteria.
3. To clear the filter, click **Clear All**.

Audits

On the **Audits** page, you can monitor the actions of each user in the portal.

To see the Audits information:

1. Go to  > **Audits**.

   The **Audits** window opens.
2. To see the updated information about the Audits, click **Refresh**:
   - **Severity** - Severity levels of action taken: Notice, Info, Warning, Critical
   - **User** - Who does the action
   - **Time** - The audit creation time, in DD/MM/YY, HH/MM/SS format
   - **Service** - The SaaS Module on the Portal where the action was done.
   - **Category** - Who did the action
   - **Type** - Which action was performed

To apply an advanced search filter for an audit:

1. In the **Search** field, click the Filter icon  .

   The **Filters** pane shows on the right side of the Dashboard.
2. Apply one or more filter criteria to find a specific audit:
   - **Severity**
   - **User**
   - **From** - Select the start date
   - **To** - Select the end date
   - **Service**
   - **Category**
   - **Type**
3. To clear filter data, click **Clear All**

To add or remove columns from the table:

1. Right-click the top row of the table that contains the names of the columns.

   A list of column names opens.

2. Select columns to show in the table.

   Only the selected columns appear in the table.

Note - Audit logs are kept on record for a minimum of one year.

Services & Contracts

The **Services & Contracts** page shows information about contracts and Infinity Portal services that are associated with your account.

Adding Subscriptions to your Infinity Portal Account

Step 1: Create a Check Point User Center account and purchase subscriptions

You must have a Check Point User Center account to purchase subscriptions for Infinity Portal services (for example, Harmony Mobile).

1. If you do not have a User Center account, create one. For instructions, see sk22716.
2. Purchase subscriptions and attach them to your User Center account.

Step 2: Link your User Center account to your Infinity Portal account

1. Log in to your Infinity Portal account.
2. From the top toolbar, click  > **Services & Contracts**.
3. In the top right, click **Link a User Center Account**.

   The **Attach Account** window opens.
4. In the **Login to User Center** step:
   a. Enter the email address and password for the User Center account.
   b. Click **Next**.
5. In the **Select Accounts** step:
   a. Select one or more User Center accounts to associate with the Infinity Portal account.
   b. Click **Finish**.

      After about two hours, Services and Contracts from the User Center account appear in the table in the **Services & Contacts** tab of the Infinity Portal account.
6. **Optional** - To sync Services and Contracts from the User Center account immediately:
   a. In the top right corner, click the **Manage Accounts** link.

      The **Manage Accounts** window opens.
   b. In the table row for the account, click **SYNC**.

Step 3: Activate Infinity Portal services

In the **Services & Contracts** page of the Account Settings, services and contracts appear in a table.

If the pending status icon ( ) appears in the **Contracts Status** column, the service has not been activated. Open the service to activate it.

To activate a Service:

1. In the top left, click the menu icon . If this icon does not appear, click the left arrow and then the menu .

   The Infinity Portal Services menu opens.
2. Open the service you want to activate.
3. After you open the service, it appears as activated in the table.

Managing Connection between Check Point User Center and Infinity Portal

To attach additional User Center accounts to your Infinity Portal account

1. Log in to your Infinity Portal account.
2. From the top toolbar, click > **Services & Contracts**.
3. In the top right, click **Manage Accounts**.

   The **Manage Accounts** window opens.
4. Click **Attach Account** and follow instructions in the wizard.

To sync account information from the User Center to the Infinity Portal immediately

1. Log in to your Infinity Portal account
2. From the top toolbar, click > **Services & Contracts**.
3. In the top right corner, click the **Manage Accounts** link.

   The **Manage Accounts** window opens.
4. In the table row for the account, click **SYNC**.

To remove a User Center account from the Infinity Portal

1. Log in to your Infinity Portal account
2. From the top toolbar, click  > **Services & Contracts**.
3. In the top right corner, click the **Manage Accounts** link.

   The **Manage Accounts** window opens.
4. In the account row, click **Delete** in the **Remove** column.

Showing and Hiding Information in the Table

To show or hide columns in the table

1. Right-click the top row of the table that contains the names of the columns.

   A list of column names opens.
2. Select columns to show in the table.

   Only the selected columns appear in the table.

To show or hide archived contracts

Above the table, on the right, select or clear the option: **Show archived contracts**.

This option is valid for archived contracts and the contracts that have been expired for over one month.

Usage

This page shows usage information for the selected account. To see usage data for a month, select the month. If you select the current month, the usage data is not final.

Field	Description
Service Name	Name of a service associated with the Infinity Portal account.
Contract type	Trial, evaluation, annual subscription, or Pay-As-You-Go.
Package (SKU)	Stock-keeping unit (SKU) of each license. Some SKUs do not show the usage.
Quantity threshold	Maximal number of units* assigned for a contract. Currently, this number is not enforced by Check Point and is not billable for contracts other than PAYG.
Past Day Usage	Total usage on the previous day.
Monthly Usage	Sum of daily usages for all days in a month, multiplied by 12 months and divided by 365 days.
Yearly Subscriptions	Number of yearly subscriptions purchased for the service.
Monthly Pay-As-You-Go	Number of service units* used during the month on a PAYG contract.

* **Units** are defined differently for each Infinity Portal service.

To export a usage report:

1. Above the table, on the right, click **Export**.
2. Select a usage report:
   - **PAYG Monthly Report** - shows total usage data for the month.
   - **Daily Report** - shows usage data for each day of the month.

   Your web browser downloads a ZIP file.
3. Unzip the file and view the report.

Usage Calculation

In the Infinity Portal, billing is based on the actual usage of the services and contracts.

The **Daily usage** refers to the number of unique billable units (devices, cores, users, seats, assets, etc.) of all licensed (active) units across all protected services as reported by the services in a single day.

The **Monthly usage** is calculated as a sum of daily usages for all days in a month, multiplied by 12 months and divided by 365 days.

API Keys

You can create and manage Application Program Interface (API) keys for Infinity Portal services to automate your configuration and integrate with third-party applications. For more information about the Infinity Portal API, see the API documentation. Each third-party application must receive its own API Key. These are the types of API Keys:

Account API Key

Includes access to **one** Infinity Portal service in your Infinity Portal account

User API Key

Includes access to Infinity Portal services that a specific user can access from his account. If an administrator of the Infinity Portal account changes the Specific Service Roles for the user, the changes also apply to the User API Key. For information about assigning roles to users, see *"Users" on page 49* and *"User Groups" on page 54*.

These actions are **not** supported for a User API Key:

- Change user profile
- Create, read, update, and delete (CRUD) other API Keys.
- Switch to a different Infinity Portal account
- Delete an Infinity Portal account
- Modify Infinity Portal account settings (examples: Users, Services and Contracts)

Create a new Account API Key

1. In the Infinity Portal, go to  > **API Keys**.
2. Click **New** > **New Account API key**.
3. In the **Create a New API Key** window, select a **Service**.

   For some services, it is necessary to select the applicable **Role**.
4. In the **Expiration** field, select an expiration date and time for the API Key. We recommend to set the expiration date three months from the present date. It is possible but not recommended to create an Account API Key without an expiration date.
5. **Optional** - In the **Description** field, enter a description for the API Key.
6. Click **Create**.

The Infinity Portal generates a new API Key.

7. Copy these values and keep them in a safe place:
   - **Client ID** - The Identifier for your account and for the client service that uses this API key.
   - **Secret Key** - The password to get access to the Check Point Infinity Portal.
   - **Authentication URL** - Shows the URL address used to authenticate API requests. In addition, it shows the specific gateway that uses this URL to authenticate the Client ID and Secret Key.

   Important - You can always obtain the **Client ID** from the **API Keys** table, but you cannot retrieve the **Secret Key** or **Authentication URL** after the **Create a New API Key** window is closed.
8. Click **Close**.

Create a new User API key

1. In the Infinity Portal, go to  > **API Keys**.
2. Click **New** > **New user API key**.
3. In the **Select User** field, select a user to associate with the API Key.
4. In the **Expiration** field, select an expiration date and time for the API Key. By default, the expiration date is three months after the creation date.
5. **Optional** - In the **Description** field, enter a description for the API Key.
6. Click **Create**.

   The Infinity Portal generates a new API Key.
7. Copy these values and keep them in a safe place:
   - **Client ID** - The Identifier for your account and for the client service that uses this API Key.
   - **Secret Key** - The password to get access to the Check Point Infinity Portal.
   - **Authentication URL** - Shows the URL address used to authenticate API requests. In addition, it shows the specific gateway that uses this URL to authenticate the Client ID and Secret Key.

   Important - You can always obtain the **Client ID** from the **API Keys** table, but you cannot retrieve the **Secret Key** or **Authentication URL** after the **Create a New API Key** window is closed.

Edit an API key's expiration date and description

1. In the Infinity Portal, go to  > **API Keys**.
2. In the **API Keys** table, select the applicable API Key and click **Edit**.
3. Make the necessary edits and click **Save**.

Delete API key(s)

1. In the Infinity Portal, go to  > **API Keys**.
2. In the **API Keys** table, select the checkbox of one or API Keys .
3. From the top toolbar, click **Delete**.
4. In the **Delete Token** window that opens, click **Delete**.

Add or remove columns from the table

1. Right-click the top row of the table that contains the names of the columns.

   A list of column names opens.
2. Select columns to show in the table.

   Only the selected columns appear in the table.

Event Forwarding

Introduction

Event Forwarding is an easy and secure procedure to export Infinity Portal data over the Syslog protocol. You can forward logs, events, and saved application data from your Check Point Infinity Portal account to a SIEM (Security Information and Event Management) provider, such as Splunk, QRadar, or ArcSight. The SIEM server processes large amounts of data and shows it in dashboards or notifications. To set up Event Forwarding, you must use certificates to establish secure communication between the Infinity Portal and your SIEM server.

Important - This feature requires a dedicated license.

Use Case

A typical use case is an organization that uses a number of security vendors, along with Check Point, to protect itself from cyber attacks. The organization uses an external analytics platform to see all data from every vendor in a single pane of glass.

Supported Infinity Portal Services

Event Forwarding can send data from these Infinity Portal services:

- Quantum Security Management
- Quantum Spark Management
- CloudGuard WAF
- Harmony SASE
- Harmony Connect
- Harmony Endpoint
- Harmony Mobile
- Harmony Email & Collaboration
- Harmony Email & Office 2.0

Prerequisites

- The SIEM server must support TLS 1.2.
- The OpenSSL CLI must be installed on your computer.

File Extensions

File	Description
`<CA>.key`	Private key
`<CA>.pem`	Public key
`.csr`	Certificate Sign Request.
`.crt`	File you create when you sign the `.csr` file with the `<CA>.key` file and the `<CA>.pem` file.
`.pfx`	If you use an existing Domain Certificate, this file contains the `[CA].key` file and `<CA>.pem` file.

Configuration

Step 1: Prepare Your Organization's Domain Certificate

If you already have a `<CA>.key` file and a `<CA>.pem` file, then skip this step.

If you do not have a `<CA>.key` file and a `<CA>.pem` file, follow one of these procedures to prepare your organization's Domain Certificate:

Create a New Domain Certificate

1. On your computer, in OpenSSL CLI, generate a Client CA:
   a. Create the `<CA>.key` file:

   ```
   openssl genrsa -out <CA>.key 2048
   ```

   b. Create `<CA>.pem` file:

   ```
   openssl req -x509 -new -nodes -key <CA>.key -sha256 -
   days 825 -out <CA>.pem
   ```

2. On your computer, in the OpenSSL CLI, create a certificate for the SIEM server:
   a. Create a key for the SIEM server:

   ```
   openssl genrsa -out <SERVER>.key 2048
   ```

   b. Generate a `.csr` file for the SIEM server:

   ```
   openssl req -new -key <SERVER>.key -out <SERVER>.csr
   ```

c. Generate a Client Certificate (`.crt`) file for the SIEM server. To do this, sign the `.csr` file using your organization's CA:

```
openssl x509 -req -in <SERVER>.csr -CA <CA>.pem -CAkey
<CA>.key -CAcreateserial -out <SERVER>.crt -days 825 -
sha256
```

3. Install your SIEM server certificate, SIEM server key, and the CA on your SIEM server (for example, Splunk, Syslog, or QRadar).
4. In the configuration of the SIEM server, define the `<CA>.pem` file as a trusted certificate.

Use an Existing Domain Certificate

If you already have a `.pfx` file, then use this method.

Prerequisites:

- The `.pfx` file that contains the `<CA>.key` file and the `<CA>.pem` file.
- The passphrase of the `.pfx` file.

Procedure

Do these steps in OpenSSL CLI on your computer:

1. Extract the `<CA>.pem` file from the `.pfx` file:

```
openssl pkcs12 -in <CERTIFICATE>.pfx -out <CA>.pem -noenc
```

2. Extract the `<CA>.key` file from the `.pfx` file:

```
openssl pkcs12 -in <CERTIFICATE>.pfx -nocerts -out
<CA>.key
```

3. Remove the passphrase from the `<CA>.key` file:

```
openssl rsa -in <CA>.key -out <my-key-nopass>.key
```

Step 2: Open a Port on the SIEM Server

On your SIEM server, open a dedicated port to receive logs from Event Forwarding.

Step 3: Configure the SIEM Server to Listen to a Specific IP Address for its Region

Region	IP Addresses	Port
EU	▪ 20.73.193.110	No specific port required
AUS	▪ 20.92.158.64 ▪ 20.92.158.102	No specific port required
US	▪ 20.85.1.184	No specific port required
UAE	▪ 20.74.203.248	514

Step 4: In the Infinity Portal, Create a Destination Object for the SIEM Server

A Destination object in the Infinity Portal defines a connection between the Infinity Portal and a SIEM server.

After you configure a Destination for your SIEM server, you can review, edit, search, and delete the destination(s) in the **Manage Destinations** window. For more information, see *"Managing Destinations" on page 72*.

1. In the Infinity Portal, click  > **Event Forwarding**.
2. Click **Create Destination /Manage Destinations**.

   The **New Destination** window opens.
3. In the field at the top of the **New Destination** window, enter a name for the destination.
4. From the list, select a SIEM server.
5. In the **Host** field, enter the address of the SIEM server as an IP address or FQDN.
6. In the **Port** field, enter the port to use for the SIEM server.

   Note - Below the **Port** field, default configurations appear. You cannot change these configurations:
   - **Type** - The type of logs that your external analytics platform receives. Currently, only Syslog is supported.
   - **Protocol** - The communication protocol. Currently, only TCP is supported.
   - **Encryption** - The encryption protocol. Currently, only mutual TLS is supported.
7. Click **Next**.

   The **Certificates** tab opens.

Step 5: Establish Secure Communication Between the Infinity Portal and your SIEM Server

For this step, keep the **Certificates** tab of the Infinity Portal open and keep the SIEM server active. Follow the numbered workflow in the **Certificates** tab in the Infinity Portal.

1. **Client Certification Sign Request (`.csr` file)**
   a. In the Infinity Portal, click **Certificate Sign Request**.

      Your web browser downloads the Infinity Portal's `.csr` file to your computer.

   b. On your computer, use the OpenSSL command line to open the `.csr` file.

   c. On your computer, use the `openssl x509` command to sign the downloaded Client Certificate. To do this, it is necessary to enter your private and public keys.

      Note - Make sure you are in the same working folder as the `<CA>.key` and `<CA>.pem` files.

      ```
      openssl x509 -req -in <CERTIFICATE>.csr -CA <CA>.pem -
      CAkey <CA>.key -CAcreateserial -out <YOUR-
      CERTIFICATE>.crt -days 825 -sha256
      ```

2. **Client Certificate (`.crt` file)**
   a. In the Infinity Portal, click **Browse** and upload the signed Client Certificate (`.crt` file).

   Best Practice - For a more secure connection, Check Point recommends to also upload the signed Client Certificate (`.crt` file) to your SIEM server.

3. **Certificate Authority (CA) certificate (`.pem` file)**
   a. Click **Browse** and upload the CA certificate (`<CA>.pem`).

4. **Test Connectivity**

   This is to confirm that the server communicates with *Event Forwarding* and that *Event Forwarding* is not impersonated by an attacker.

   Important - In a first-time configuration, you must do a successful test before you can continue configuring Event Forwarding.

   a. Click **Test Connectivity**.

      If the connection is successful, then **Connect successfully** appears.

      If the connection is not successful, refer to sk182879 - Infinity Portal Event Forwarding - Troubleshooting.

5. Click **Finish**.

Step 6: In the Infinity Portal, Create a Forwarding Rule

A Forwarding rule is a set of conditions for data forwarding from the Infinity Portal to a SIEM server.

To create a forwarding rule:

1. Click the **Add Rule** button.

   The **New Forwarding Rule** window opens.
2. Fill in the relevant fields.
3. Click **Create**.

Managing Destinations

After you configure destination(s) for an external analytics platform, you can review, edit, delete, and search for them in the **Manage Destinations** window.

To review destinations:

In the **Manage Destinations** window, on the left pane, select the name of the destination. The right pane shows the settings for the destination and the rules that use the destination.

To edit destinations:

1. In the **Destinations** window, on the left pane, select the destination's name.
2. Click the edit icon .

   The **Edit Destination** window opens.
3. Change the settings as necessary.
4. Click **Apply**.
5. Click **Close**.

To delete a destination:

1. In the **Manage Destinations** window, on the left pane, select the destination's name.
2. Make sure that no rule uses this destination. A destination cannot be deleted if it corresponds to a rule.

   If there is no destination configured with the **Used by Rule**, then the right pane is empty. If some rules use the destination, replace the destination or delete the rules.
3. Click the delete icon .

To search for a destination:

1. In the **Manage Destinations** window, in the search field, start to enter the destination's name.

   A list of destinations opens.

2. Click the destination to see more details about the configuration.
3. To exit, click **Close**.

Managing Forwarding Rules

On the **Event Forwarding** page, Forwarding Rules show the rule name, the services from which you forward data, and the name of the destination to which you forward the data.

The calculation of the forwarded data depends on the selected services:

- When you select a specific service (for example, Harmony SaaS), the Infinity Portal calculates the expected data usage in gigabytes based on this service.
- When you select **All** services, the Infinity Portal calculates the total expected data usage by summing up the data consumption of all available services in this account (for example, Harmony Mobile, Quantum Security Management, and Policy).

The calculated GB value is displayed next to the selected service(s) in parentheses.

For example, if you select only the SaaS service, the Infinity Portal shows the expected data usage for SaaS. If additional services are selected, the Infinity Portal updates the calculation to reflect the combined data usage of the selected services.

To add a new forwarding rule:

1. Click **Add Rule**.
2. In the **New Forwarding Rule** window, enter these details:
   a. **Rule Name** - Enter a distinctive name
   b. **Services** - Select one of these:
      - **All** (**X**GB/day) - The expected amount of exported event logs for all services for one day.
      - **Specific services** (**X**GB/day) - The expected amount of exported events for selected services for one day. Select each of the services from which you forward the data. The consumption depends on the selected services.

        Note - Harmony Endpoint data does not include Threat Hunting data, which can accumulate a large amount of events. If you require this data to be included, click **Include Threat Hunting data** and make sure that your contract capacity includes these provisions. For more information, see sk182879 - Infinity Portal Event Forwarding - Troubleshooting.

   c. **Destination** - Select one of the configured destinations.
3. Click **Create**.

To edit a forwarding rule:

Put the cursor on the rule and click ⋮, then select **Edit**. Change the rule settings as necessary.

To delete a forwarding rule:

Put the cursor on the rule and click ⋮, then select **Delete**.

SSO Authentication Setup with Identity Provider

Single Sign-On (SSO) authentication enables organizations to centrally manage user authentication and authorization by integrating with an Identity Provider (IdP). With SSO authentication, users can log in to different enterprise resources and services with one set of credentials (username and password). You can configure regular Identity Providers such as Microsoft Entra ID (formerly Azure AD) and Okta, or you can opt for Two-Factor Authentication by integrating with Duo. This approach enables your organization to control user access efficiently and ensures that your users can easily and securely access the necessary resources.

Supported Identity Providers:

For information on SSO authentication and setup with available Identity Providers, see:

- *"Microsoft ADFS" on page 80*
- *"Microsoft Entra ID (formerly Azure AD)" on page 85*
- *"Okta" on page 101*
- *"OneLogin" on page 116*
- *"Ping Identity" on page 129*
- *"PingFederate" on page 145*
- *"Generic SAML Server" on page 148*
- *"Google Workspace" on page 150*
- *"Duo" on page 164*
- *"RADIUS" on page 166*

Optional Features

You can use optional features for a more advanced integration of the Infinity Portal with an Identity Provider (IdP).

Feature	Description
SAML	The Infinity Portal and the Identity Provider communicate through the Secure Access Markup Language (SAML) protocol.
IdP Initiated Flow	Allows Infinity Portal users to connect to the Infinity Portal directly from the IdP portal. Example - Users click an icon in the Okta portal to open the Infinity Portal.
Directory Integration - Manual	The Infinity Portal pulls information about users and groups from the IdP to: ■ Let you define user groups based on groups in the IdP (see *"User Groups" on page 54*) ■ Provide Check Point services that use user and group information from the IdP (example: Harmony Connect)
Directory Integration - SCIM	A Directory Integration method that allows the IdP to push any change in the user and group directory to the Infinity Portal. The Infinity Portal uses this information to: ■ Let you define user groups based on groups in the IdP (see *"User Groups" on page 54*) ■ Provide Check Point services that use user and group information from the IdP (example: Harmony Connect)

This table shows which features Infinity Portal supports for each Identity Provider.

Identity Provider (IdP)	SAML	IdP Initiated Flow	Directory Integration - Manual	Directory Integration - SCIM
Microsoft Entra ID (formerly Azure AD)	Yes	Yes	Only for Check Point services.	Only for Check Point services.
Okta	Yes	Yes	Only for Check Point services.	Only for Check Point services.
Ping Identity	Yes	Yes	Only for Check Point services.	Only for Check Point services
PingFederate	Yes	Yes	No	No
OneLogin	Yes	Yes	Only for Check Point services.	Only for Check Point services
Microsoft ADFS	Yes	No	Only for Check Point services.	No
Google Workspace	Yes	Yes	Only for Check Point services.	No
Duo	Yes	No	No	No
Generic SAML Server	Yes	No	No	No
RADIUS	No	No	No	No

Use Case

ACME Corporation's large workforce needs to access different enterprise resources and services. They have implemented Check Point Infinity Portal as a centralized platform to manage user access to these resources. But the management of user authentication for each resource has become a cumbersome and time-consuming procedure, especially as employees often forget their usernames and passwords. Moreover, there are security concerns related to managing multiple sets of login credentials for each user.

To simplify the authentication procedure and improve security, ACME Corporation decides to implement SSO authentication with Check Point Infinity Portal. By integrating with an Identity Provider such as Okta, they can centrally manage and control user authentication and authorization. This means that employees can log in with a single set of credentials (username and password) to access all enterprise resources and services, removing the need to remember different login details for each resource.

Moreover, with SSO authentication, ACME Corporation can implement more security measures such as Two-Factor Authentication (2FA) to make sure that user access is secure. This enhances the overall security posture of the organization and is a better user experience by eliminating the necessity of for multiple sets of login credentials.

In summary, SSO authentication with Check Point Infinity Portal allows ACME Corporation to simplify the authentication procedure, make security better, and enhance user experience.

Microsoft ADFS

Use these instructions to configure the SSO authentication with Microsoft ADFS.

Prerequisite

- Permissions to your company's DNS server if you select login-based domain verification as the integration type.

Select Identity Provider (IdP) and Title

1. In the Infinity Portal, go to  > **Identity & Access** and click the plus icon.
2. Enter a name for the **Integration Title** and select **ADFS**.
3. Click **Next**.

Integration Type

In this step of the IdP Integration Wizard, you can configure SSO authentication for Infinity Portal administrators and for end users of Check Point services.

Step 1: Configure SSO for Infinity Portal Administrators

1. Select **Enable Administrators to log in to the portal using this IdP**.
2. Select one of these options:
   - **Login based on domain verification** - Infinity Portal Administrators can log in to this Infinity Portal account with SSO from the Identity Provider. Administrators log in through the Infinity Portal login page.
   - **Login with a unique URL** - Infinity Portal Administrators can log in to multiple Infinity Portal accounts with SSO from the Identity Provider. Administrators log in using the URL that appears at the bottom of the **Login with a unique URL** section. Copy this URL and keep it in a safe place.

Step 2: Configure SSO for Users of Infinity Portal Services

1. In the **Service(s) Integration** section, select **one** of these options:
   - **No Services** - End users of Infinity Portal services cannot authenticate with SSO from the Identity Provider. This is the default configuration.
   - **All Services** - End users can log in with SSO from the Identity Provider to all Check Point services that support SSO.

- **Specific Service(s)** - From the list of services, select service(s) to allow end users to log into with SSO from the Identity Provider. Available services:
  - **Harmony Connect**
  - **Quantum Gateways**

2. Click **Next** (or, if you are editing a configuration, **Apply**) to complete the Integration Type configuration.

Verify your Domain

Note - If for **Integration Type** you selected **Login with a unique URL**, the **Verify Domain** step is not necessary.

1. Connect to your DNS server.
2. Copy the DNS **Value** from the Infinity Portal IdP Integration wizard > **Verify Domain** step.
3. On your DNS server, enter the **Value** as a TXT record.
4. In the Infinity Portal > **Domain(s)** section, enter a public DNS domain server name and click the plus icon.

   Check Point makes a DNS query to verify your domain's configuration.
5. **Optional** - add more DNS domain servers.
6. Click **Next**.

   Note - Wait until the DNS record propagates and becomes resolvable.

Allow Connectivity

Important - Keep the Infinity Portal and Microsoft ADFS open during all steps of this procedure.

Step 1: Copy values from the Infinity Portal IdP Integration wizard to the Microsoft ADFS Add Relying Party Trust wizard

1. In Microsoft ADFS, navigate to **ADFS** > **Trust Relationships** > **Relying Party Trusts**.
2. From the **Actions** toolbar on the right > **Relying Party Trusts** section, click **Add Relying Party Trust**.

   The **Add Relying Party Trust** wizard opens.
3. In the **Welcome** step, click **Start**.
4. In the **Select Data Source** step:

a. Select **Enter data about the relying party manually**.

b. Click **Next**.

5. In the **Specify Display Name** step:

   a. Copy the **Display Name** from the Infinity Portal and paste it in the **Display name** field in Microsoft ADFS.

   b. In Microsoft ADFS, click **Next**.

6. In the **Configure Certificate** step, click **Next**. Do **not** upload a token encryption certificate.

7. In the **Configure URL** step:

   a. Select **Enable support for the SAML 2.0 WebSSO protocol**.

   b. Copy **Replying party SAML 2.0 SSO service URL** from the Infinity Portal to the field with the same name in Microsoft ADFS.

   c. Click **Next**.

8. In the **Configure Identifiers** step:

   a. Copy the **Relying party trust identifier** from the Infinity Portal and paste it in the **Relying party trust identifier** field in Microsoft ADFS.

   b. Click **Next**.

9. In the **Choose Access Control Policy** step:

   a. Select **permit everyone**.

   b. Click **Next**.

10. In the **Ready to Add Trust** step, click **Next**.

11. In the **Finish** step, click **Finish**.

Step 2: Create Claim rules in Microsoft ADFS

1. In the Microsoft ADFS **Relying Party Trusts** window, right click on the table row "**check point infinity Portal SSO**".

2. Click **Edit Claim Issuance Policy...**

   The **Add Transform Claim Rule Wizard** opens in a new window.

3. In the **Choose Rule Type** step:

   a. For **Claim rule template**, select **Send LDAP attributes as claims**.

   b. Click **Next**.

4. In the **Configure Claim Rule** step:
   a. For **Claim rule name**, enter `LDAP Attributes as Claims`.
   b. For **Attribute store**, select **Active Directory**.
   c. In the table, add these LDAP attributes:

LDAP Attribute	Outgoing Claim Type
`User-Principal-Name`	`UPN`
`Display-Name`	`Name`
`E-Mail-Addresses`	`E-Mail-Address`
`User-Principal-Name`	`Primary SID`

   d. Click **Next**.
5. In the **Finish** step, click **Finish**.

Step 3: Create Group claim rules in Microsoft ADFS

1. In the Microsoft ADFS **Relying Party Trusts** window, right click on the table row "**check point infinity Portal SSO**".
2. Click **Edit Claim Issuance Policy...**

   The **Add Transform Claim Rule Wizard** opens.
3. In the **Choose Rule Type** step:
   a. For **Claim rule template**, select **Send Group Membership as a Claim**.
   b. Click **Next**.
4. In the **Configure Claim Rule** step:
   a. For **Claim rule name**, enter `LDAP Attributes as Claims`:
   b. For **Attribute store**, select **Active Directory**.
   c. In the table, add this LDAP attribute:

LDAP Attribute	Outgoing Claim Type
`Token Groups - Unqualified Names`	`Group SID`

   d. Click **Next**.
5. In the **Finish** step, click **Finish**.

6. Restart the ADFS services or restart the server on which ADFS is running to apply the configuration.
7. In the Infinity Portal > **Allow Connectivity** step, click **Next**.

Configure & Test

1. Download the ADFS Federation Metadata file from:

   ```
   https://<your-domain>/FederationMetadata/2007-06/FederationMetadata.xml
   ```

2. In the Infinity Portal > **Configure Metadata** page, upload the Federation Metadata XML that you downloaded from your ADFS.

   Note - Check Point uses the service URL and the name of your Certificate from the metadata file to identify your users behind the sites.

3. Click **Next**.

Confirm Identity Provider Integration

Review the details of the SSO configuration and click **Submit**.

Important - Before you log out of the Infinity Portal, create a user group with the applicable roles and assign it to the related IdP group name or ID. For more information, see *"User Groups" on page 54*.

Microsoft Entra ID (formerly Azure AD)

Important - These configuration steps let you set up the Microsoft Entra ID Identity Provider with a **Non-Gallery Application**.

Prerequisites:

- Permissions to your company's DNS server.
- For Microsoft Entra ID with SAML, you must have Microsoft 365 and Microsoft Entra ID Premium P1 licenses or above.
- For Conditional Access, you must have Microsoft Entra ID Premium P1 or P2. You can use a single Premium P2 license with multiple users. For more information, see Microsoft Entra ID AD licenses.

Note - For an integration of more than approximately 150 groups from Microsoft Entra ID, you must *"Directory Integration " on page 92*.

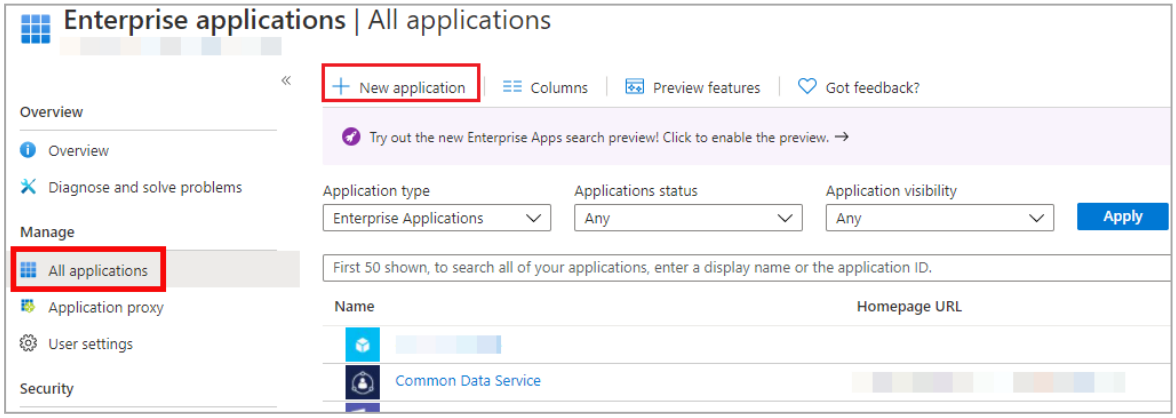
Preliminary Configuration of a User Group

Step 1: In the Azure portal, create an enterprise application

1. Log in to your Azure portal.
2. In the home directory, click on the hamburger button to show the portal menu.
3. Got to **Microsoft Entra ID** > **Enterprise applications**> **All applications**.

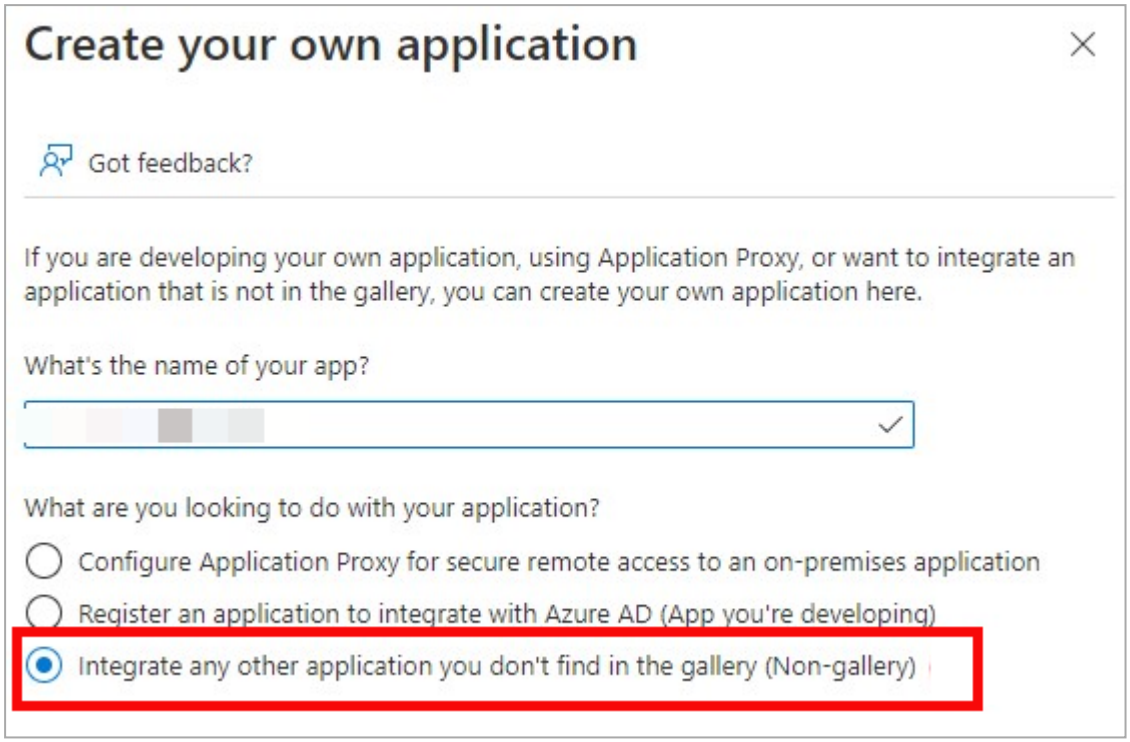
   Important - Check Point does **not** support the preconfigured Infinity Portal application in Microsoft Azure. You must create a new application for Infinity Portal in Microsoft Azure as shown in this procedure.

4. Click **New application**.



5. Click **Create your own application**.

6. In the **What's the name of your app** field, enter a name for the application (example: "Infinity Portal") and click **Integrate any other application you don't find in the gallery (Non-gallery)**.



7. Click **Create** and wait for Azure to add the new application.

Step 2: In the Azure portal, create a group

1. Click on the Azure portal menu.
2. Click Microsoft Entra ID.
3. Click **Groups**.
4. Click **New group**.

   The **New Group** window opens.
5. Enter a **Group name** and **Group description**.
6. Add members to the group.
7. Click **Create** and wait for Azure to successfully create the group.

Step 3: In the Azure portal, assign the group to the enterprise application

Note - Microsoft Entra ID does not grant application access to users who are not direct members of an associated group. For more information, see Microsoft documentation.

1. Open the enterprise application you created for the Infinity Portal.
2. Click **Assign users and groups**.
3. Click **add user/group**.
4. Click **None Selected**.
5. Search for the group you created for Infinity Portal users.
6. Click the group and click **Select**.
7. Click **Assign** to assign the group to the application.
8. Open the user group.
9. Copy the group's **Object Id**.

Step 4: In the Infinity Portal, add a user group

1. In the Infinity Portal tenant that administrators should access through Azure SSO, click  > **User Groups**.
2. Click **New**.

   The **ADD USER GROUP** window opens.
3. Enter a **Name** for the group.
4. Enter a **Description** for the group.
5. In the **IDP Id** field, paste the **Object ID** of the group from the Azure portal.
6. Assign a role to the group. For more information, see *"User Groups" on page 54*.
7. Click **ADD**.

IdP and Title

1. In the Infinity Portal go to  > **Identity & Access** > click the plus icon.
2. Enter a name for the **Integration Title** and select **Microsoft Entra ID**.
3. Click **Next**.

Integration Type

In this step of the IdP Integration Wizard, you can configure SSO authentication for Infinity Portal administrators and for end users of Check Point services.

Step 1: Configure SSO for Infinity Portal Administrators

1. Select **Enable Administrators to log in to the portal using this IdP**.
2. Select one of these options:
   - **Login based on domain verification** - Infinity Portal Administrators can log in to this Infinity Portal account with SSO from the Identity Provider. Administrators log in through the Infinity Portal login page.
   - **Login with a unique URL** - Infinity Portal Administrators can log in to multiple Infinity Portal accounts with SSO from the Identity Provider. Administrators log in using the URL that appears at the bottom of the **Login with a unique URL** section. Copy this URL and keep it in a safe place.

Step 2: Configure SSO for Users of Infinity Portal Services

1. In the **Service(s) Integration** section, select **one** of these options:
   - **No Services** - End users of Infinity Portal services cannot authenticate with SSO from the Identity Provider. This is the default configuration.
   - **All Services** - End users can log in with SSO from the Identity Provider to all Check Point services that support SSO.
   - **Specific Service(s)** - From the list of services, select service(s) to allow end users to log into with SSO from the Identity Provider. Available services:
     - **Harmony Connect**
     - **Quantum Gateways**
2. Click **Next** (or, if you are editing a configuration, **Apply**) to complete the Integration Type configuration.

Verify Domain

Note - If for **Integration Type** you selected **Login with a unique URL**, the **Verify Domain** step is not necessary.

1. Connect to your DNS server.
2. Copy the DNS **Value** from the Infinity Portal IdP Integration wizard > **Verify Domain** step.
3. On your DNS server, enter the **Value** as a TXT record.
4. In the Infinity Portal > **Domain(s)** section, enter a public DNS domain server name and click the plus icon.

   Check Point makes a DNS query to verify your domain's configuration.

5. **Optional** - add more DNS domain servers.
6. Click **Next**.

Note - Wait until the DNS record propagates and becomes resolvable.

Allow Connectivity

In this step, you enter the Identifier (Entity ID) and Reply URL from the Infinity Portal into the Azure portal and create the required Azure attributes and claims.

Configuration

Step 1: Copy tokens from the Infinity Portal to the Azure portal

1. In the Infinity Portal IdP Integration **Allow Connectivity** page, copy the **Identifier (Entity ID)** and the **Reply URL.**
2. In the Azure portal, click **Enterprise Applications**.
3. Open the Azure application you use for the Infinity Portal.
4. From the left menu, expand **Manage** and click **Single sign-on**.
5. On the **Select a single sign-on method** page, select **SAML**.
6. In the **Basic SAML Configuration** section, click **Edit** and do these steps:
    a. In the **Identifier (Entity ID)** text box, paste the **Identifier (Entity ID)** you copied from the Infinity Portal.
    b. In the **Reply URL (Assertion Consumer Service URL)** / ACS URL text box, paste the **Reply URL** you copied from the Infinity Portal
7. **Optional -** Enable IdP initiated login flow. IdP Initiated flow lets you connect directly to the Infinity Portal from your Azure portal.
    a. In the Azure portal, create an app card for the Infinity Portal. See the Microsoft Entra ID documentation for App integrations:
    b. Copy the **Sign on URL** from the Infinity Portal to the **Sign on URL** field in the Azure portal.
    c. Copy the **Relay State** from the Infinity Portal to the **Relay State** field in the Azure portal.
    d. Click **Save.**
8. If you did not do the previous optional step - In the Azure portal, **Basic SAML Configuration** window, click **Save**.

Step 2: Configure Attributes and Claims in the Azure portal

1. In the Azure application you created for the Infinity Portal > **Attributes & Claims** section, click **Edit**.
2. Make sure that these claims are in the **User Attributes & Claims** list. If a claim does not exist, then create it.

   Important - Do **not** change the default configurations of these claims.

   - **Claim Name** - http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress

     Claim Type - SAML

     Value - user.mail

   - **Claim Name** - http://schemas.xmlsoap.org/ws/2005/05/identity/claim/givenname

     Claim Type - SAML

     Value - user.givenname

Step 3: Add a Group Claim in the Azure portal

1. In the Azure application you created for the Infinity Portal > **Attributes & Claims** section, click **Edit**.
2. Click **Add a group claim**.

   The **Group Claims** window opens.
3. Select **Groups assigned to the application**.

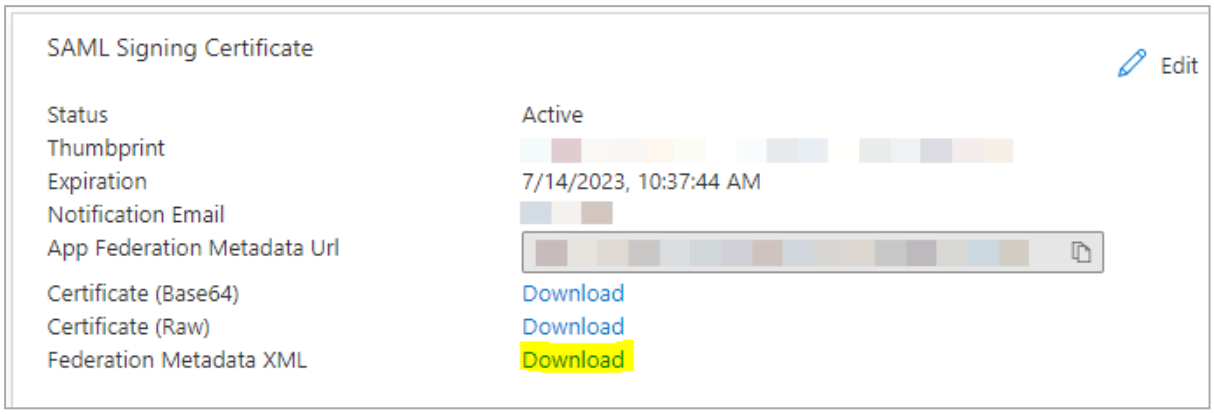
   Important - Nested groups are supported only if you configure Directory Integration with Manual Sync. See *"Directory Integration " on page 92*.
4. For **Source attribute**, select **Group ID**.
5. Click **Save**.
6. In the Infinity Portal, click **Next/Apply**.

Important - Before you can test the connectivity between Microsoft Entra ID and the Infinity Portal, you must complete all of the IdP integration steps in the Infinity Portal.

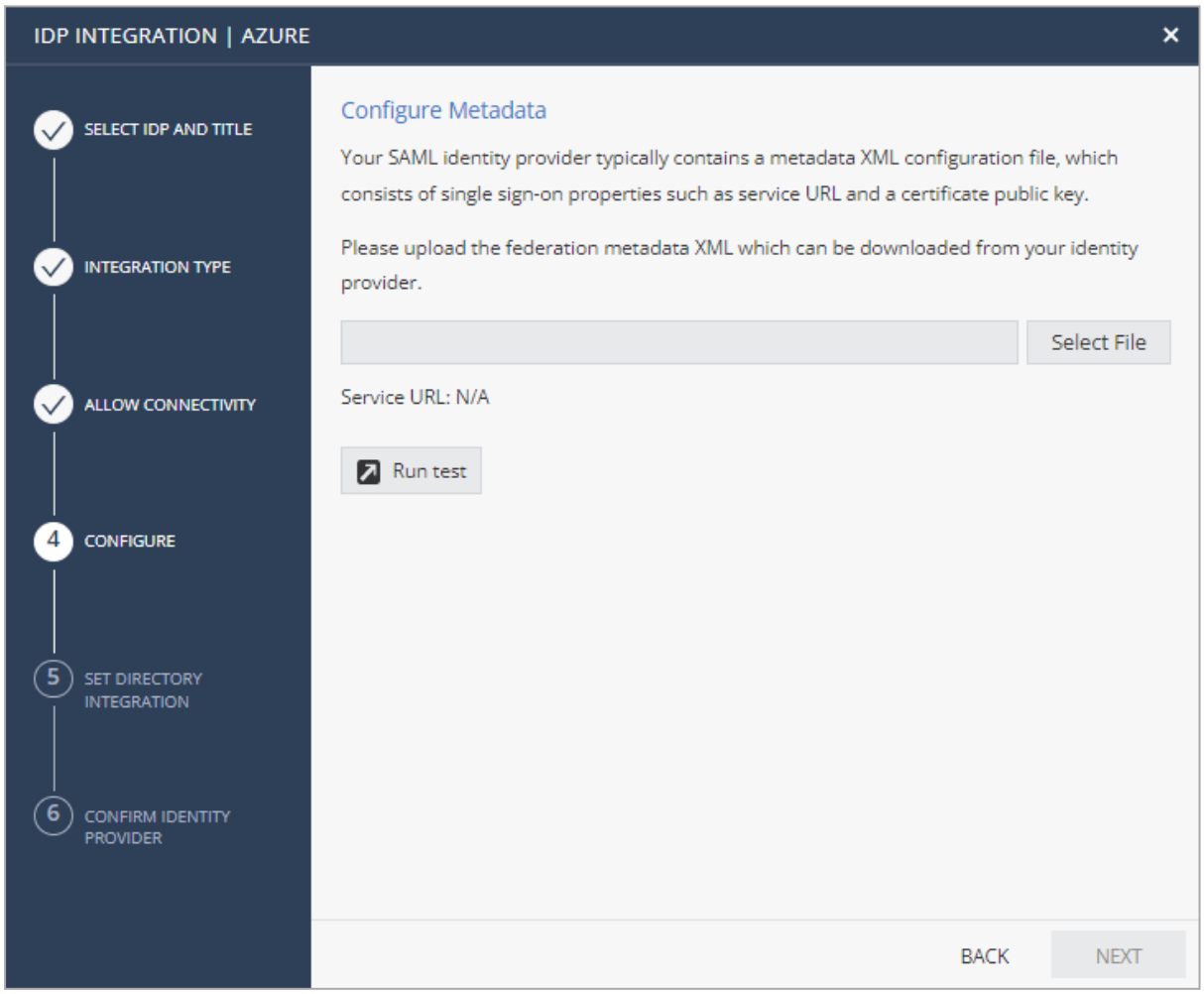
Configure Metadata

In this step, you upload the federation metadata XML file.

1. In the Azure portal, navigate to the enterprise application you created.
2. In the left navigation pane, click **Single Sign-On**.
3. In **SAML Signing Certificate**, download the **Federation Metadata XML** file.



4. In the Infinity Portal > **IDP Integration** > **Configure Metadata** page, upload the **Federation Metadata XML** file.



Note - Check Point uses the service URL and the name of your Certificate to identify your users behind the sites.

5. In the Infinity Portal > **IDP Integration** > **Configure Metadata** tab, click **Next** / **Apply**.

   Check Point validates your Identity Provider's metadata of your Identity Provider.

Directory Integration

Directory Integration gets information about users and groups for the services you selected in the **Integration Type** step > **Service(s) Integration** section.

Directory Integration does **not** apply to **Users** and **User Groups** in the Infinity Portal.

Important - After you create a Directory Integration, you cannot change it. To create a different Directory Integration, you must create a new Identity Provider (IdP) Integration.

To use Microsoft Entra ID for SSO authentication only, select the checkbox **I want to skip this step and use this IdP for SSO authentication only**.

You can configure Directory Integration with Manual API Sync or with System for Cross-Domain Identity Management (SCIM).

Directory Integration Method	How it Works	Which Users and Groups are Synced
Manual Sync	Allows Check Point services to query for any change in Microsoft Entra ID users and groups. The Infinity Portal pulls users and groups from Microsoft Entra ID.	All users and groups in Microsoft Entra ID. Nested groups in Microsoft Entra ID are supported.
SCIM (Automatic Sync)	Allows Microsoft Entra ID to push any change in the user and group directory to Check Point services.	Only users and groups in Microsoft Entra ID that are assigned to the SAML application for the Infinity Portal. Nested groups in Microsoft Entra ID are **not** supported.

To use Manual Sync

In the Azure Portal, set up users and groups synchronization:

Set up permissions to allow the selection of users and user groups from your Microsoft Entra ID environment in the Infinity Portal Policy.

1. In the Azure portal, click **App registrations**.

   The **App registrations** screen opens.

2. Click **+ New registration**.

   The **Register an application** screen opens.

3. Create a new App Registration.

   The app registrations page for the application opens.

4. Click **Manage** > **API permissions**.

   The **API permissions** screen opens.

5. In **Configured permissions**, click **+ Add a permission**.

   The **Request API permissions** window opens.

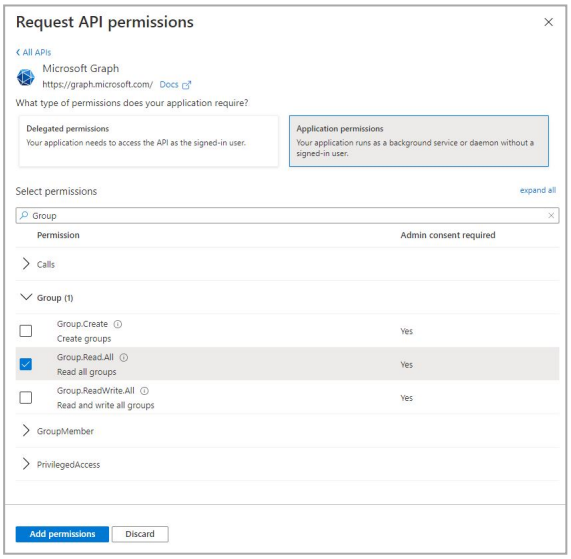
6. In **Microsoft APIs**, click **Microsoft Graph** and select **Application permissions**.

7. In the **Select permissions** section:

   a. In the search field, enter **Group:**

      i. Expand **Group**.

      ii. Select **Group.Read.All**.



b. In the search field, enter **User:**

   i. Expand **User**.

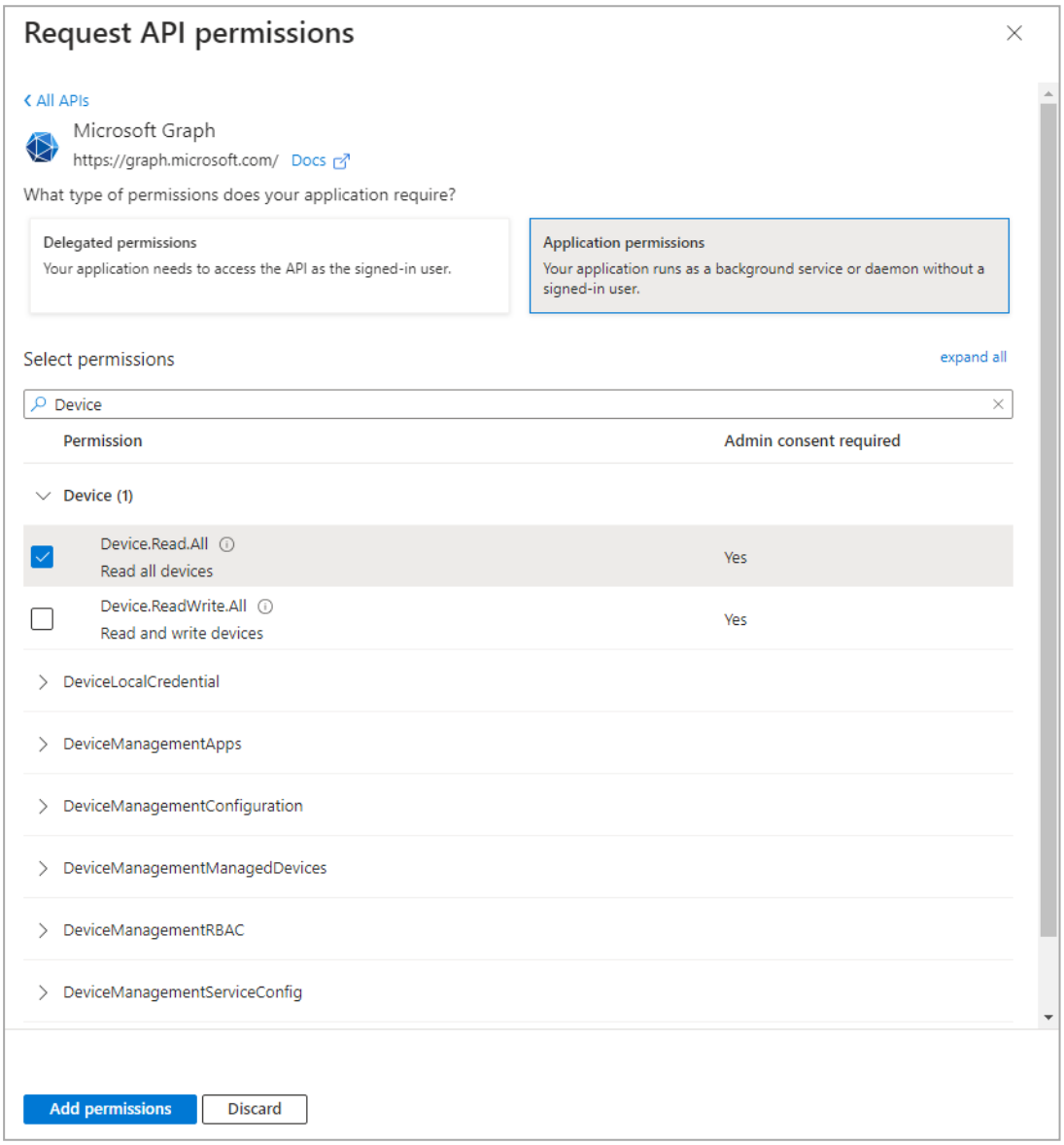
   ii. Select **User.Read.All**.

c. **Optional** - Set up synchronization for device information:

   i. In the search field, enter **Device**.

   ii. Expand **Device**.

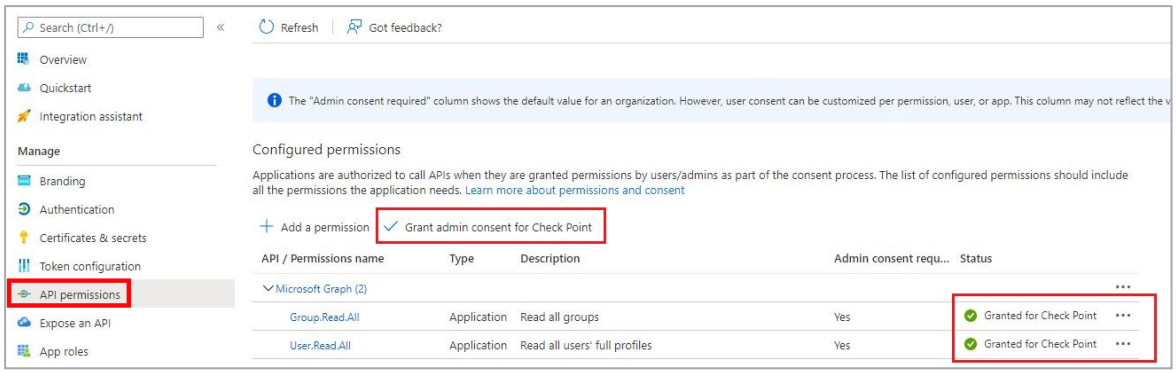
   iii. Select **Device.Read.All**.



8. Click **Add permissions**.

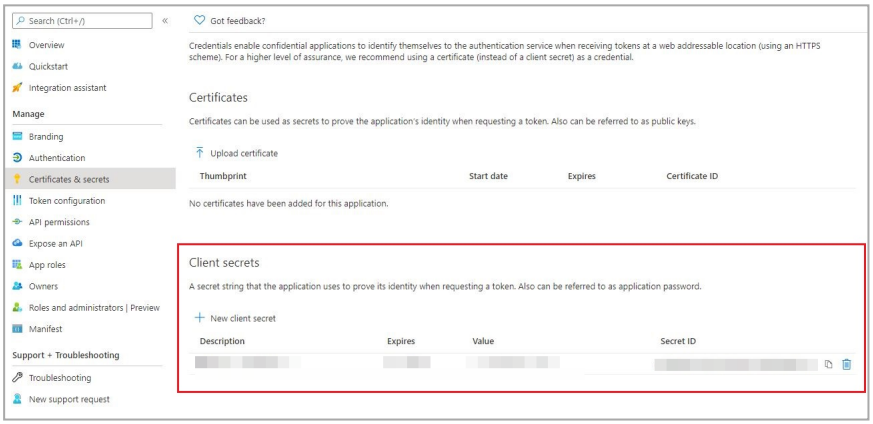
9. In **Configured permissions**, click **Grant admin consent for <application name>** and confirm in the confirmation window.

   The **Status** changes accordingly.



10. Create an authentication secret key:

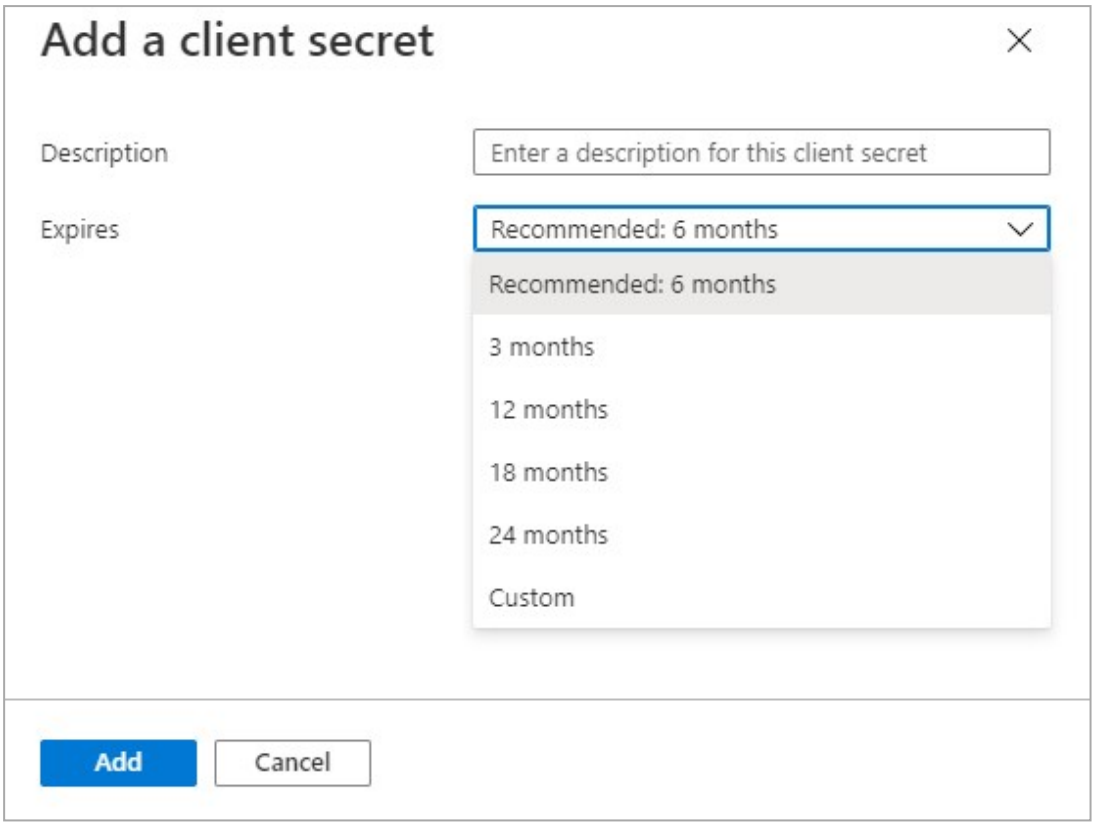
    a. In the Azure portal, open your app and click **Certificates & secrets**.



    b. Click **Client secrets** > **+ New client secret**.

    c. In the **Description** field, enter a description for the client's secret.

d. Select an expiration date and click **Add**.



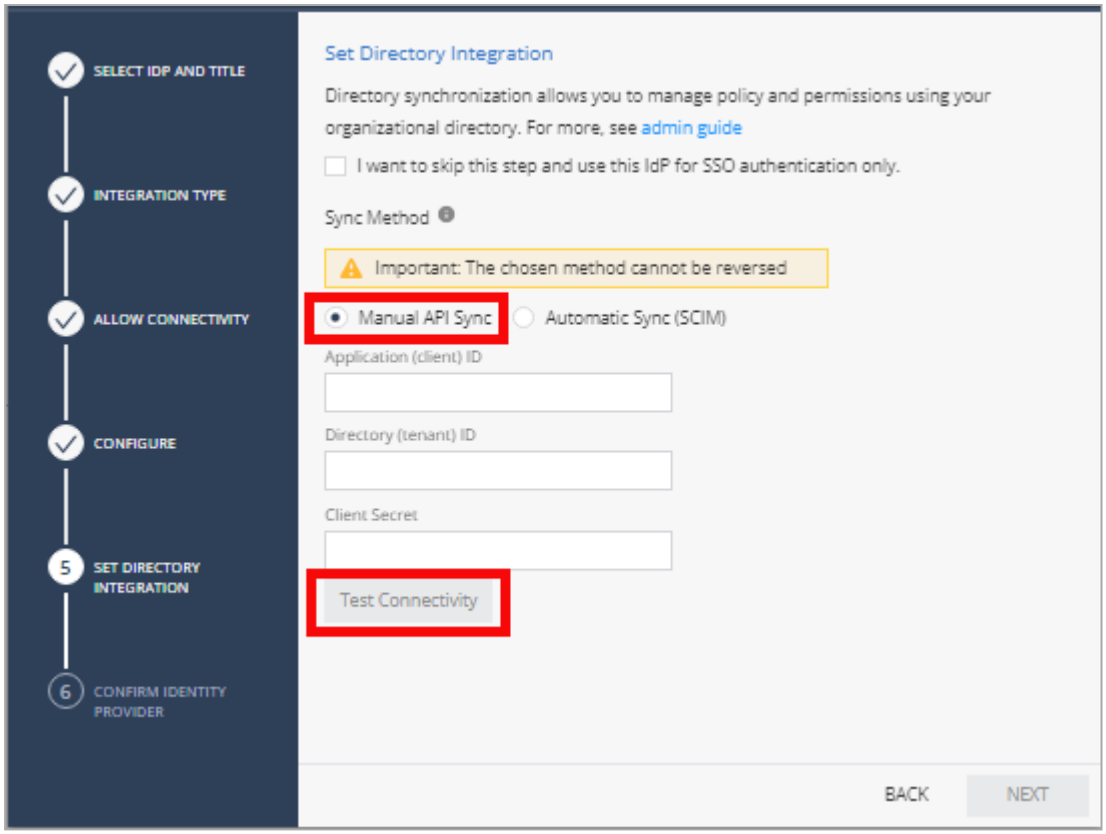
e. From the **Value** field, copy the value of this new client secret.

Use this value in the next configuration step.

Note - You cannot retrieve this secret value after you close the window.

Configure the Infinity Portal IdP:

1. In the Azure Portal, open your app. Click **Overview** and expand **Essentials**.
2. Copy the values of the **Application (client) ID** and **Directory (tenant) ID**.
3. In the Infinity Portal Identity Provider wizard, paste the values of **Application (client) ID**, **Directory (tenant) ID**, and **Client Secret** created in the previous step and click **Next**.



4. To test the users and group synchronization between the Infinity Portal and Identity Provider, click **Test Connectivity**.

   If the test is unsuccessful, repeat the *Set Directory Integration* step to configure the user and group synchronization parameters.

5. Click **Next**.

   Check Point validates access with the API key.

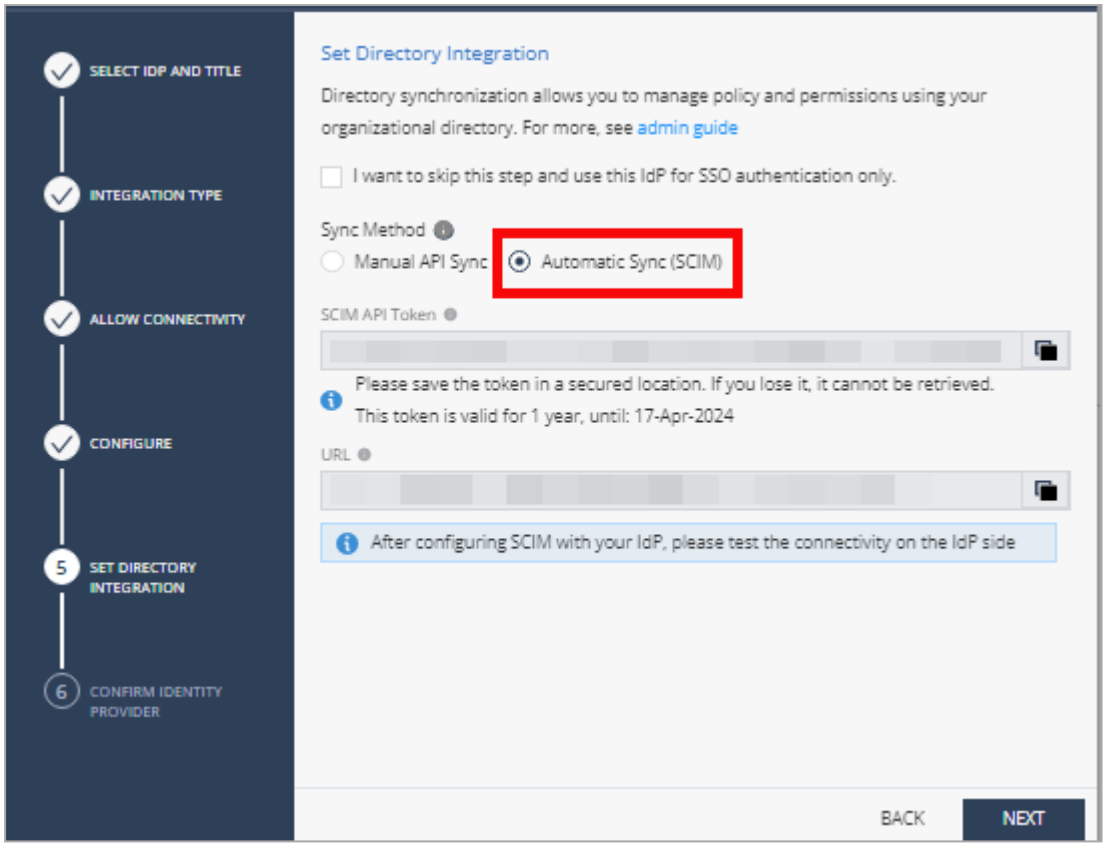
To use SCIM (Automatic Sync)

Prerequisites:

- In the Infinity Portal create a user group with an **Admin** global role. See *"Users" on page 49*.
- You must have Administrator permissions for the IdP.
- You must have Active Directory and a premium P2 Azure subscription.

Step 1 - Configure the Directory Integration in the Infinity Portal:

1. In the Infinity Portal Identity Provider wizard, **Set Directory Integration** step, select **Automatic Sync SCIM**.



2. Copy and save the **SCIM API Token** and **URL**.
3. Click **Next**.

   The **Confirm Identity Provider** step opens.
4. Click **Submit**.

   Microsoft Entra ID is now integrated with the Infinity Portal. The Microsoft Entra ID integration appears in the gallery in the Infinity Portal. Finish configuring SCIM (Automatic Sync) in the Azure portal.

Step 2 - Configure the Application Integration in the Azure Portal:

1. In your Microsoft Azure account, navigate to Microsoft Entra ID.
2. From the left toolbar, click **Enterprise Applications**.

   The **Enterprise Applications** page opens to the **Manage** > **All applications** tab.
3. In the table, open the enterprise application you created for the Infinity Portal.
4. From the left menu, click **Manage** > **Provisioning**.

   The **Provisioning** page opens to the **Overview** tab.
5. For **Provisioning Mode**, select **Automatic**.

6. In the **Admin Credentials** section:
    a. In the **Tenant URL** field, enter the **URL** you copied from the Infinity Portal's **Set Directory Integration** step.
    b. In the **Secret Token** field, enter the **SCIM API Token** you copied from the Infinity Portal's **Set Directory Integration** step.
    c. Click **Test Connection**.
7. Click **Save**.
8. In the **Mappings** section, click **Provision Microsoft Entra ID Directory Users**.

    The **Attribute Mapping** page opens.
9. On the **Attribute Mapping** page:
    a. In the **Target Object Actions** section, make sure these checkboxes are selected: **Create**, **Update**, **Delete**.
    b. In the **Attribute Mappings** table, find the row with the `'externalId'` value in the **customappsso Attribute** column and click **Edit**.

        The **Edit Attribute** page opens.
    c. In the **Source attribute** field, select `objectId`.
    d. Click **OK**.

        The **Edit Attribute** window closes.

        The **Attribute Mapping** window opens.
    e. Click **Save**.
    f. In the confirmation window, click **Yes**.
10. From the top navigation toolbar, click [**NAME OF APPLICATION]| Provisioning**.
11. From the left menu, go to **Manage** > **Users and groups**.
12. Add users and groups.
13. From the left menu, click **Overview**.
14. Click **Start provisioning**.

    It can take up to a few hours for Azure to finish sending directory information to the Infinity Portal.

Confirm Identity Provider Integration

Review the details of the SSO configuration and click **Submit**.

Note - If you selected to use SCIM, then this step is not necessary.

Important - Create a user group with the applicable roles and assign it to the related IdP group name or ID. This depends on the applicable identity provider before you log out. For more information, see *"User Groups" on page 54*.

Okta

Configure settings in the Infinity Portal IDP Integration wizard and in the Okta Workforce Identity Cloud portal to configure the SSO authentication with Okta.

Prerequisite

- Permissions to your company's DNS server if you select login-based domain verification as the integration type.

IdP and Title

1. In the Infinity Portal, go to  > **Identity & Access** and click the plus (**+**) icon.
2. Enter a name for the **Integration Title** and select **Okta**.
3. Click **Next**.

Integration Type

In this step of the IdP Integration Wizard, you can configure SSO authentication for Infinity Portal administrators and for end users of Check Point services.

Step 1: Configure SSO for Infinity Portal Administrators

1. Select **Enable Administrators to log in to the portal using this IdP**.
2. Select one of these options:
   - **Login based on domain verification** - Infinity Portal Administrators can log in to this Infinity Portal account with SSO from the Identity Provider. Administrators log in through the Infinity Portal login page.
   - **Login with a unique URL** - Infinity Portal Administrators can log in to multiple Infinity Portal accounts with SSO from the Identity Provider. Administrators log in using the URL that appears at the bottom of the **Login with a unique URL** section. Copy this URL and keep it in a safe place.

Step 2: Configure SSO for Users of Infinity Portal Services

1. In the **Service(s) Integration** section, select **one** of these options:
   - **No Services** - End users of Infinity Portal services cannot authenticate with SSO from the Identity Provider. This is the default configuration.
   - **All Services** - End users can log in with SSO from the Identity Provider to all Check Point services that support SSO.

- **Specific Service(s)** - From the list of services, select service(s) to allow end users to log into with SSO from the Identity Provider. Available services:
  - **Harmony Connect**
  - **Quantum Gateways**

2. Click **Next** (or, if you are editing a configuration, **Apply**) to complete the Integration Type configuration.

Verify Domain

Note - If for **Integration Type** you selected **Login with a unique URL**, the **Verify Domain** step is not necessary.

1. Connect to your DNS server.
2. Copy the DNS **Value** from the Infinity Portal IdP Integration wizard > **Verify Domain** step.
3. On your DNS server, enter the **Value** as a TXT record.
4. In the Infinity Portal > **Domain(s)** section, enter a public DNS domain server name and click the plus icon.

   Check Point makes a DNS query to verify your domain's configuration.
5. **Optional** - add more DNS domain servers.
6. Click **Next**.

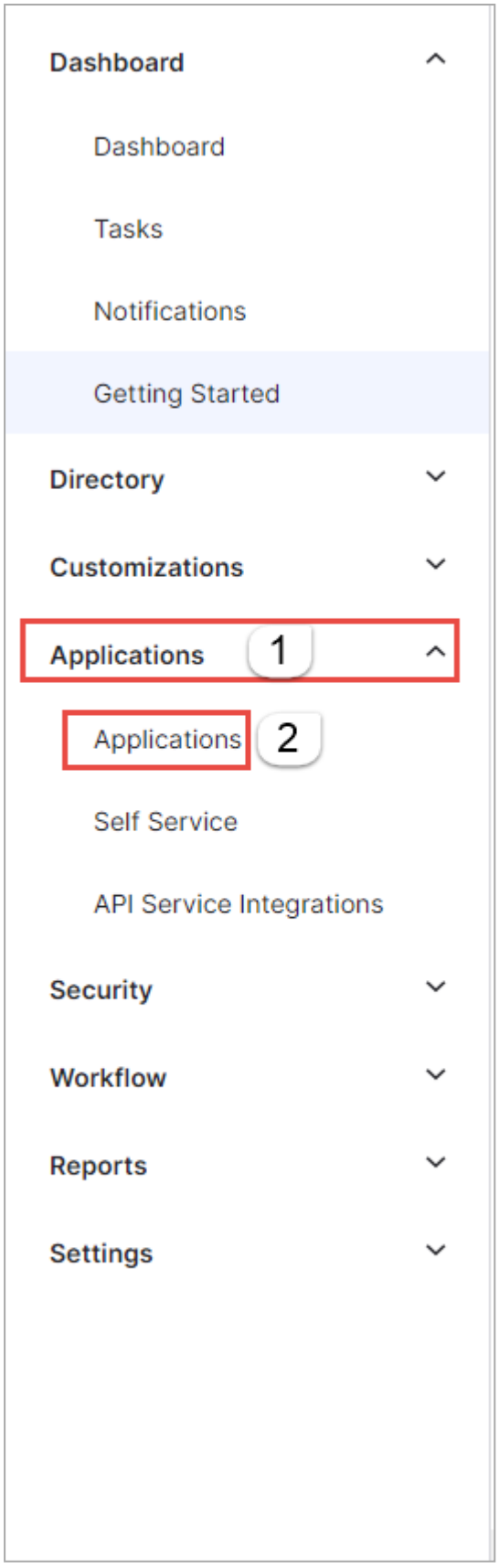
   Note - Wait until the DNS record propagates and becomes resolvable.

Allow Connectivity

Important - Keep the Infinity Portal Okta integration wizard and the Okta portal open during this whole procedure. Make sure they do not time out.

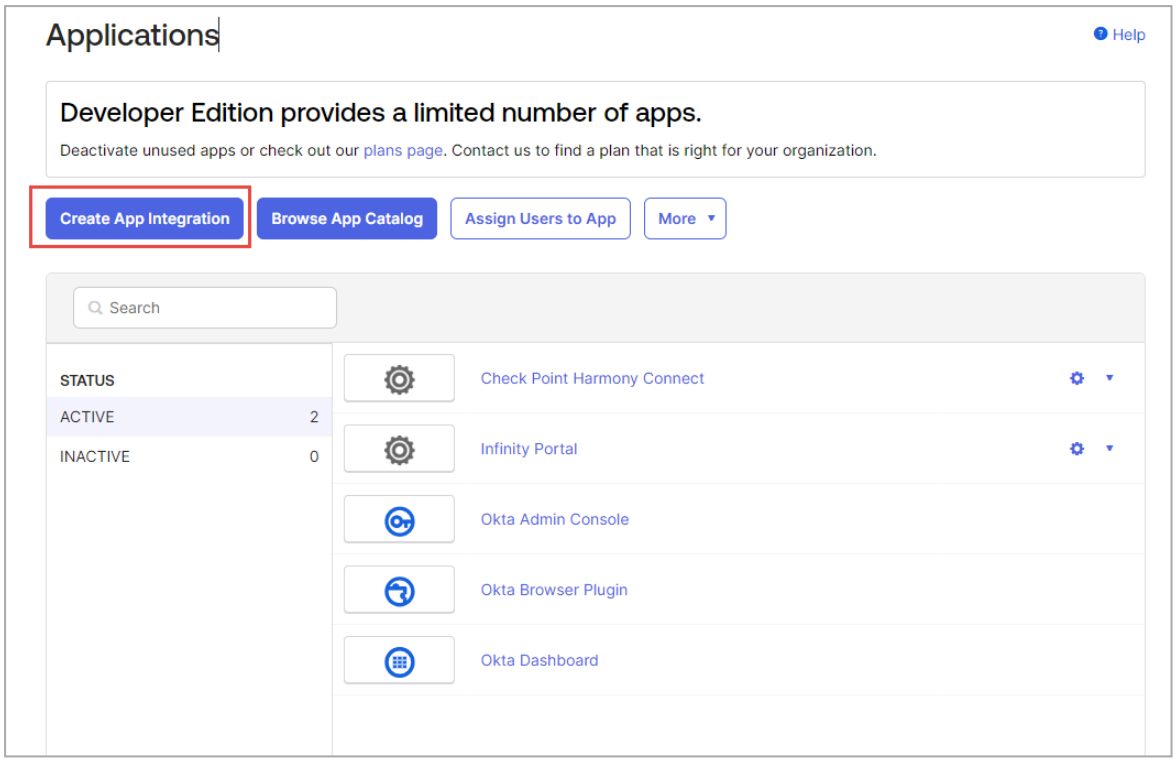
Step 1: In the Okta Portal, Create a SAML Application for the Infinity Portal

1. Log in to your Okta Portal.
2. Click **Admin**.
3. From the left taskbar, click **Applications** > **Applications**.



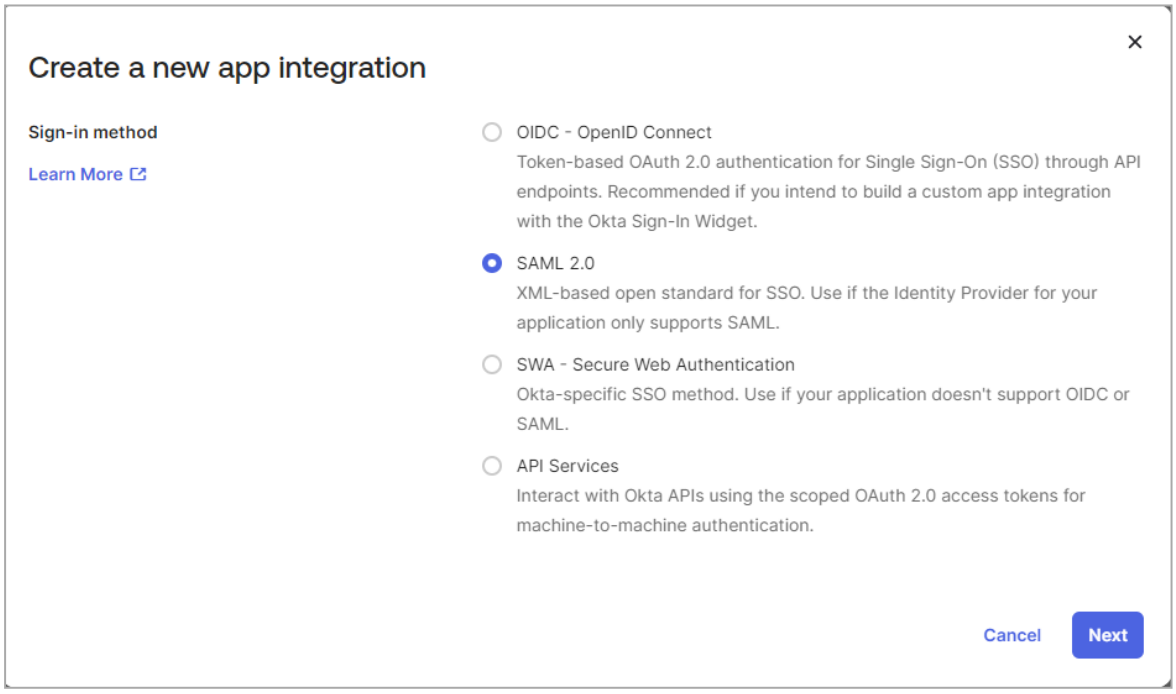
The **Applications** screen opens.

4. Click **Create App Integration**.



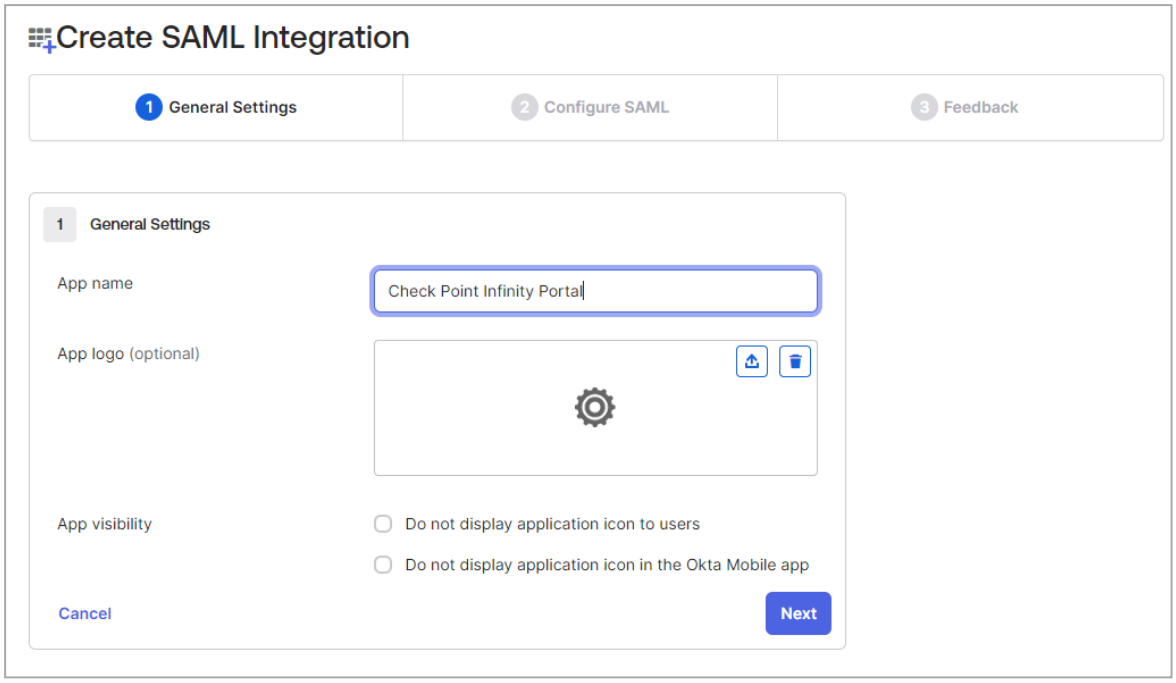
The **Create a new app integration** window opens.

5. Select **SAML 2.0** and click **Next**.



The Create SAML Integration window opens.

6. In the **General Settings** tab > **App name** field, set the application name to **Check Point Infinity Portal** and click **Next**.



The **Configure SAML** tab opens.

Step 2: Copy SAML Settings from the Infinity Portal to the Okta Portal

1. In the Okta Portal > **Configure SAML** tab > **SAML Settings** menu > **General** section, configure SAML settings.
2. Copy the **Single sign-on (Destination URL)** from the Infinity Portal to the **Single sign-on URL** field in the Okta Portal.
3. In the Okta Portal, make sure that **Use this for Recipient URL and Destination URL** is selected. This option is selected by default.
4. Copy the **Audience URL (SP Entity ID)** from the Infinity Portal to the **Audience URI (SP Entity ID)** field in the Okta Portal.
5. In the Okta Portal > **Name ID format** field, select **EmailAddress**.
6. In the Okta Portal > **Application username** field, make sure that **Okta username** is selected.

Step 3 (OPTIONAL) - Enable IdP Initiated Flow

IdP Initiated flow lets you connect directly to Infinity Portal from the Okta portal. To do this, you must create an Infinity Portal app card in the Okta portal. See the Okta documentation for App integrations.

To configure IdP Initiated flow, copy the **Default Relay State** from the Infinity Portal to the **Default Relay State** field in the Okta Portal.

Important - Before you can test the connectivity between Okta and Infinity Portal, you must complete all of the IdP integration steps in the Infinity Portal.

Step 4: In the Okta Portal, Set Attribute Statements and Group Attribute Statements

1. In the **SAML Settings** menu > **Attribute Statements** section, create these attribute statements:

   - **Name** - firstName

     Name format - unspecified

     Value - user.firstName

   - **Name** - lastName

     Name format - unspecified

     Value - user.lastName

   - **Name** - userId

     Name format - unspecified

     Value - user.id

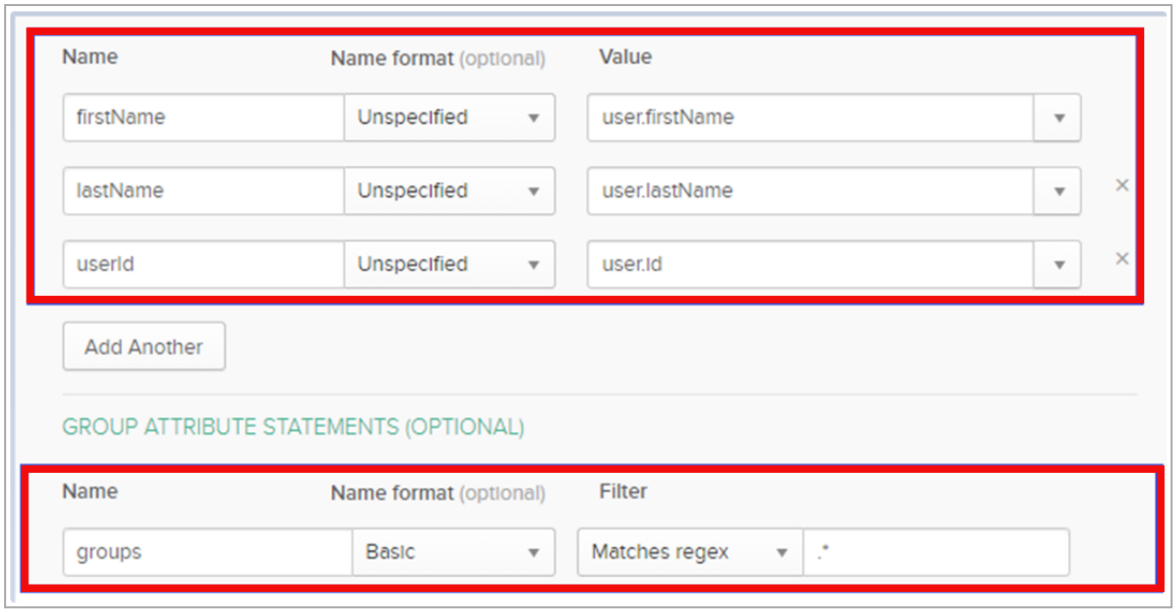
2. In the **SAML Settings** menu > **Group Attribute Statements** section, create this group attribute statement:

   Name - groups

   Name format - Basic

   Filter - Matches regex

   Value (this field does not have a name) - **.***



Important - Copy the name of the assigned group for use with the Check Point Infinity Portal User Group IdP ID field.

3. Select **This is an internal app that we have created** and then click **Finish**.

Configure Metadata

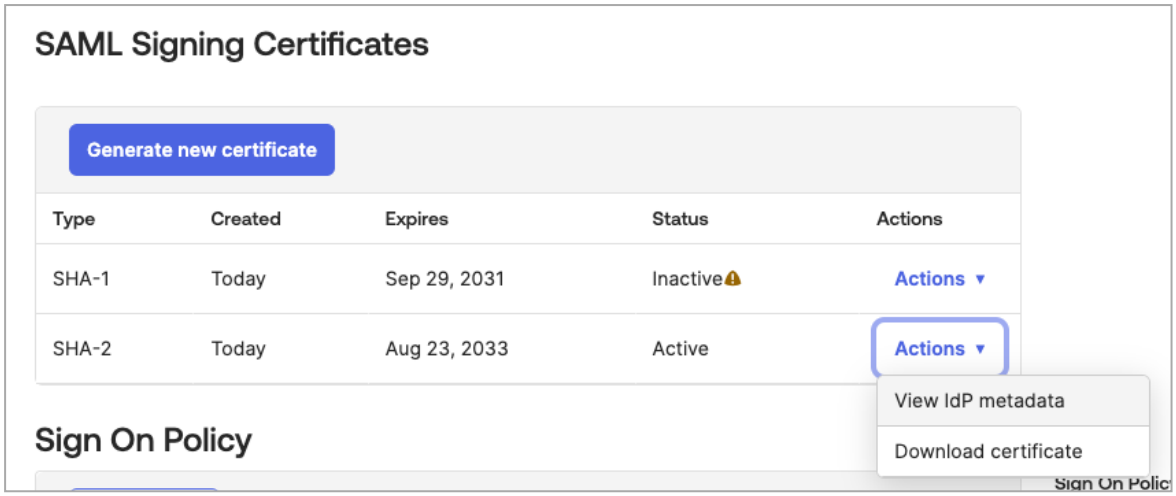
On the **Configure** page, upload metadata from Okta to the Infinity Portal.

Step 1: In the Okta Portal, Download the Metadata XML File

1. In the Okta Portal, open the application you created for the Infinity Portal:
   a. From the left taskbar, click **Applications** > **Applications**.

      The **Applications** screen opens.

   b. Open the application you created for the Infinity Portal.
2. Open the **Sign On** tab.
3. In the **SAML Signing Certificates section** > table row of the active SAML certificate, click **Actions** > **View IdP Metadata**.



A new window opens with the metadata.

4. Save the metadata in a new file named `InfinityPortalOktaMetaData.XML`.

Step 2: In the Infinity Portal, Upload the Metadata XML File

1. In the Infinity Portal, click **Select File** and upload the metadata XML file.

   Note - Check Point uses the service URL and the name of your Certificate to identify your users behind the sites.

2. Click **Next / Apply**.

   Check Point verifies the metadata for Okta.

User Assignment

1. In the Okta Portal, open the application you created for Infinity Portal.
   a. From the left taskbar, click **Applications** > **Applications**.

      The **Applications** screen opens.

   b. Open the application you created for the Infinity Portal
2. In the **Assignments** tab, click **Assign** > **Assign to groups**.
3. Select the relevant group from the list.

Directory Integration

Directory Integration gets information about users and groups for the services you selected in the **Integration Type** step > **Service(s) Integration** section.

Directory Integration does **not** apply to **Users** and **User Groups** in the Infinity Portal.

Important - After you create a Directory Integration, you cannot change it. To create a different Directory Integration, you must create a new Identity Provider (IdP) Integration.

To use Okta for SSO authentication only, select the checkbox **I want to skip this step and use this IdP for SSO authentication only**.

You can configure Directory Integration with Manual API Sync or with System for Cross-Domain Identity Management (SCIM).

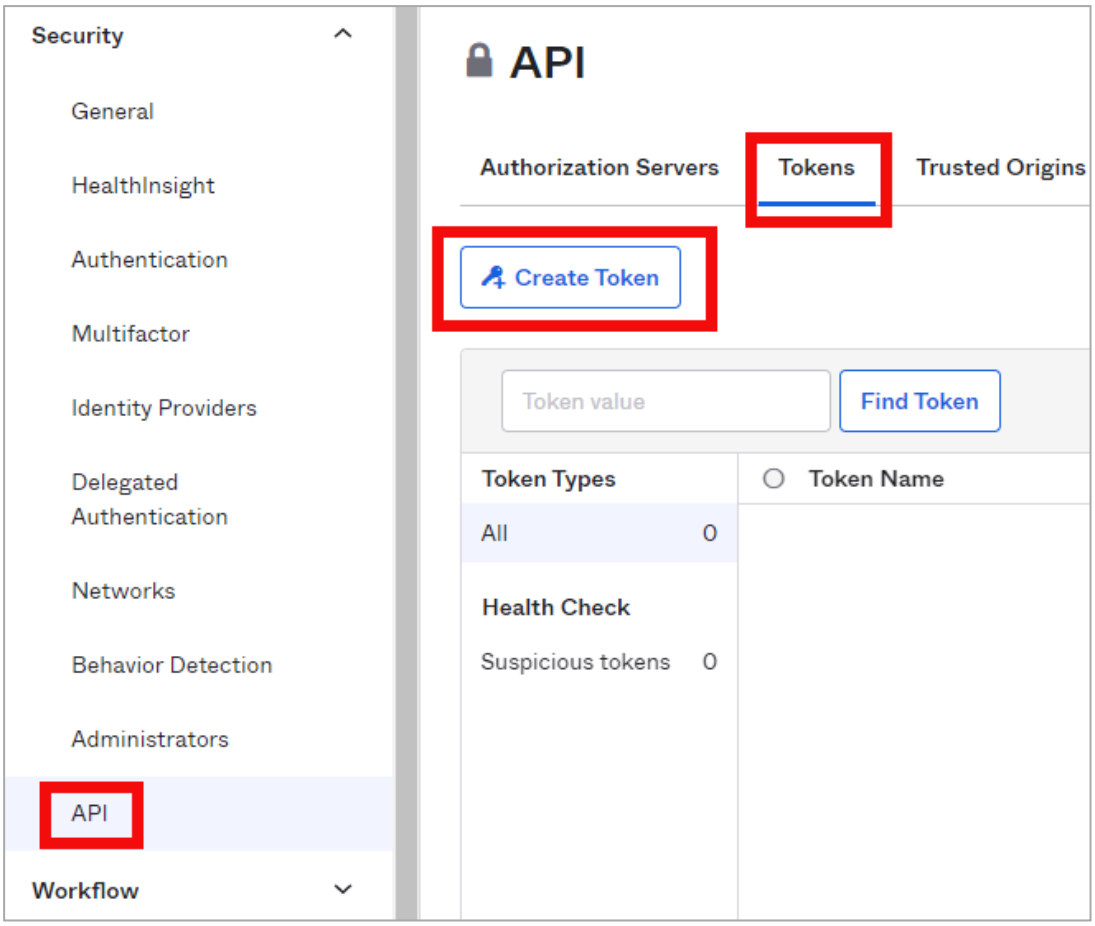
Directory Integration Method	How it Works	Which Users and Groups are Synced
Manual Sync	Allows Check Point services to query for any change in Okta users and groups. The Infinity Portal pulls users and groups from Okta.	All users and groups in Okta.
SCIM	Allows Okta to push any change in the user and group directory to Check Point services.	Only users and groups in Okta that are assigned to the SAML application for the Infinity Portal.

To use Manual API Sync

Set up permissions to allow a selection of users and user groups from your Okta directory in the Infinity Portal Policy.

1. In the **Set Directory Integration** step, select **Manual API Sync** and enter the details from your Okta account.
    a. In the Okta Portal, check your Okta domain. Usually, this name appears in the address bar and in your account name.
    b. Click the icon to the right of the Okta domain name to copy it.
    c. Paste the Okta domain name in the **Okta Domain** field on the **Set Directory Integration** page of the Identity Provider wizard.

d. In the Okta Portal, navigate to **Security** > **API** > **Tokens** > click **Create Token**.



e. In the window that opens, enter the token name and click **Create Token**.

f. Copy the Token Value.

Best Practice - Check Point recommends that you save the Token Value in a separate, secured file to retrieve when required.

g. In the Infinity Portal Identity Provider wizard, on the **Set Directory Integration** page, paste the Token Value into the **API Token Value field**.

h. To test the users and group synchronization between the Infinity Portal and the IdP, click **Test Connectivity**.

If the test is unsuccessful, repeat the *Set Directory Integration* step to configure the user and group synchronization parameters.

i. Click **Next**.

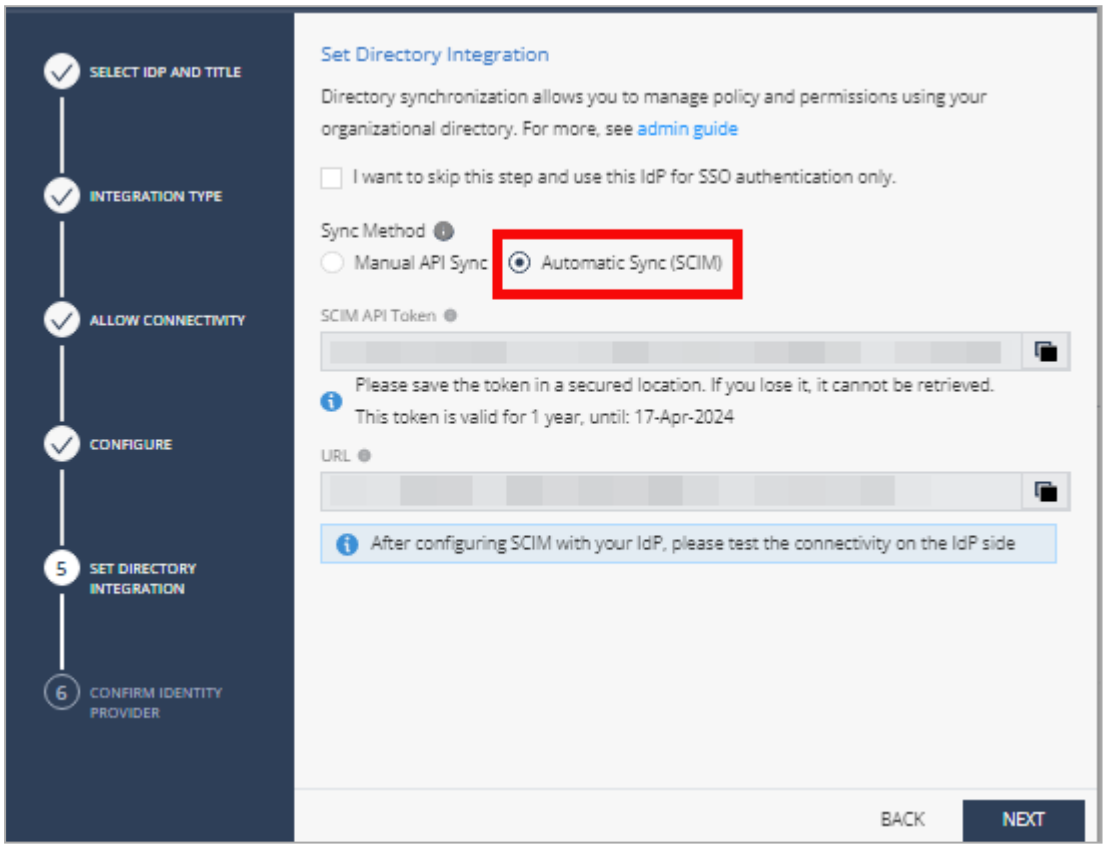
To use SCIM (Automatic Sync)

Prerequisites:

You must have An Okta account with administrator permissions and a SCIM provisioning subscription.

Step 1 - Configure the Directory Integration in the Infinity Portal:

1. In the **Set Directory Integration** step, select **Automatic Sync SCIM**.



2. Copy and save the **SCIM API Token** and **URL**.
3. Click **Next**.
4. Click **Submit**.

Step 2 - Configure the Application Integration in the Okta Admin Console:

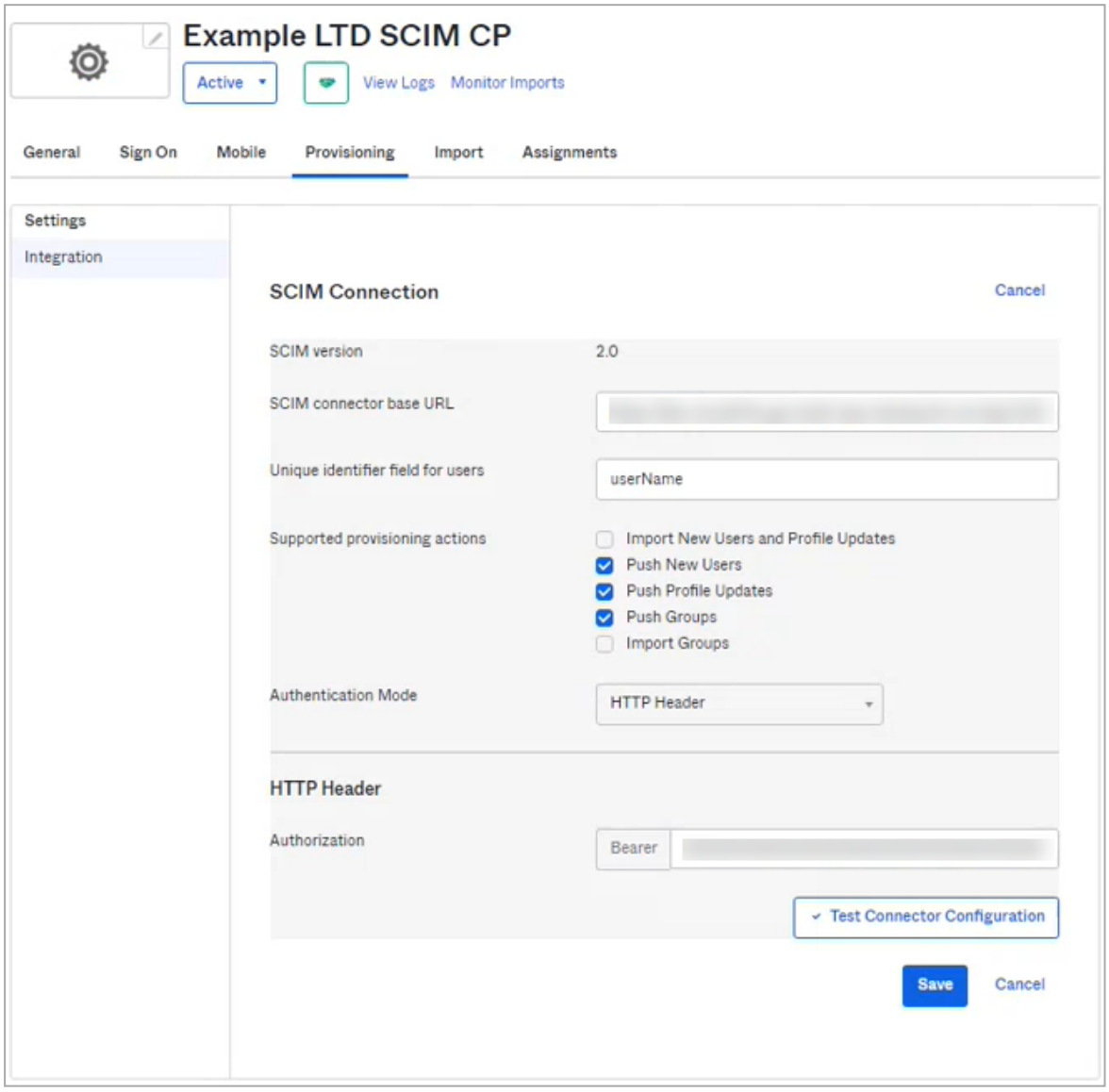
1. Navigate to your Okta account and go to **Applications**.
2. Open the application you created for the Infinity Portal.
3. Enable SCIM provisioning:

a. Click **Edit**.

b. Select **Enable SCIM provisioning**.

c. Click **Save**.

4. Create the SCIM connection:



a. Click **Edit**.

b. For **SCIM connector base URL**, enter the **URL** from the **Set Directory Integration** step in the Infinity Portal.

c. For **Unique identifier field for users**, enter *userName*.

d. For **Supported provisioning actions**, enable these settings:
   - **Push New Users**
   - **Push Profile Updates**
   - **Push Groups**

e. For **Authentication Mode,** from the down arrow, select **HTTP Header** and paste the API token.

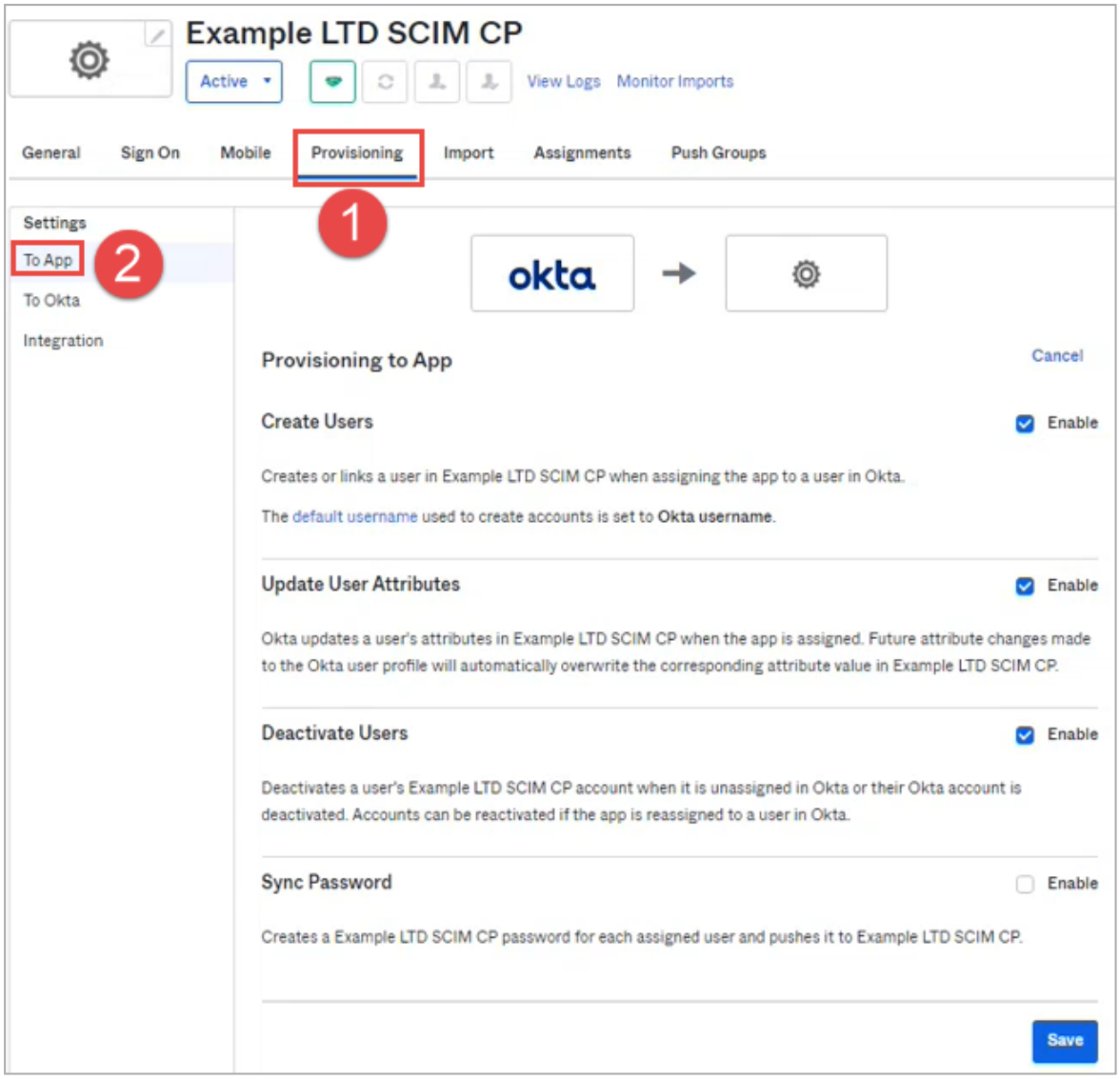
f. Click **Save**.

5. Click **Test Connector Configuration**.

   Important - To test connectivity, you must first complete *"Step 1 - Configure the Directory Integration in the Infinity Portal:" on page 111* in its entirety.

   If the integration is configured correctly, then the **Test Connector Configuration** window shows *Connector configured successfully*.

6. From the top toolbar, select **Provisioning**, and below **Settings** select **To app**.



7. Enable these settings:
   - **Create Users**
   - **Update User Attributes**
   - **Deactivate Users**
8. Click **Save**.

Confirm Identity Provider Integration

Note - This step is not necessary if you selected to use SCIM.

1. Review the details of the SSO configuration and click **Submit**.

   The IDP Configuration Wizard closes.

2. In the Infinity Portal, create a user group with the applicable roles and assign it to the related IdP group name or ID. This depends on the applicable identity provider before you log out. For more information, see *"User Groups" on page 54*.

OneLogin

Use these steps to configure the SSO authentication with OneLogin.

Prerequisite

- Permissions to your company's DNS server if you select login-based domain verification as the integration type.

IdP and Title

1. In the Infinity Portal, go to  > **Identity & Access** and click the plus icon.
2. Enter a name for the **Integration Title** and select **OneLogin**.
3. Click **Next**.

Integration Type

In this step of the IdP Integration Wizard, you can configure SSO authentication for Infinity Portal administrators and for end users of Check Point services.

Step 1: Configure SSO for Infinity Portal Administrators

1. Select **Enable Administrators to log in to the portal using this IdP**.
2. Select one of these options:
   - **Login based on domain verification** - Infinity Portal Administrators can log in to this Infinity Portal account with SSO from the Identity Provider. Administrators log in through the Infinity Portal login page.
   - **Login with a unique URL** - Infinity Portal Administrators can log in to multiple Infinity Portal accounts with SSO from the Identity Provider. Administrators log in using the URL that appears at the bottom of the **Login with a unique URL** section. Copy this URL and keep it in a safe place.

Step 2: Configure SSO for Users of Infinity Portal Services

1. In the **Service(s) Integration** section, select **one** of these options:
   - **No Services** - End users of Infinity Portal services cannot authenticate with SSO from the Identity Provider. This is the default configuration.
   - **All Services** - End users can log in with SSO from the Identity Provider to all Check Point services that support SSO.

- **Specific Service(s)** - From the list of services, select service(s) to allow end users to log into with SSO from the Identity Provider. Available services:
  - **Harmony Connect**
  - **Quantum Gateways**

2. Click **Next** (or, if you are editing a configuration, **Apply**) to complete the Integration Type configuration.

Verify your Domain

Note - If for **Integration Type** you selected **Login with a unique URL**, the **Verify Domain** step is not necessary.

1. Connect to your DNS server.
2. Copy the DNS **Value** from the Infinity Portal IdP Integration wizard > **Verify Domain** step.
3. On your DNS server, enter the **Value** as a TXT record.
4. In the Infinity Portal > **Domain(s)** section, enter a public DNS domain server name and click the plus icon.

   Check Point makes a DNS query to verify your domain's configuration.
5. **Optional** - add more DNS domain servers.
6. Click **Next**.

   Note - Wait until the DNS record propagates and becomes resolvable.

Create an application in the OneLogin Portal

1. Log in to your OneLogin account and select **Administration** to set to **admin** mode.
2. Below the **Applications** tab, select **Application** and click **Add App**.
3. In the search box, select **one** of these:
   - **SAML Test Connector (Advanced) -** If you do **not** want to configure Directory Integration, **or** if you want to configure Directory Integration - Manual Sync
   - **SCIM Provisioner with SAML (SCIM v2 Core)** - If you want to configure Directory Integration - SCIM (Automatic Sync)

   For information about Directory Integration to help you choose, see *"Directory Integration" on page 120*.
4. In the **info** tab, enter:

Display Name - Check Point Infinity Portal.

5. Click **Save**.

Allow Connectivity

1. On the **Allow Connectivity** page, copy the **Entity ID** and the **Reply URL**.
2. Complete the **Settings** for the OneLogin application. Go to the **Configuration** tab and enter this information:
   - **Audience (EntityID)** - The Entity ID you copied in the Check Point Infinity Portal
   - **ACS (Consumer) URL*** - The **Reply URL** you copied in the Check Point Infinity Portal
   - **ACS (Consumer) URL Validator*** - The Reply URL domain with backslashes. For example, `https:\/\/cloudinfra-gw.portal.checkpoint.com\/`
3. Click **Save**.
4. Go to the Check Point Infinity Portal. On the **Allow Connectivity** page, click **Next**.

OPTIONAL - Enable IdP-Initiated flow

IdP Initiated lets you connect directly to Infinity Portal from your OneLogin Admin Console. To do this, you must create an Infinity Portal app card in your OneLogin Admin Console. See the OneLogin documentation.

Step 1: In Infinity Portal, enable IdP Initiated flow:

a. In the Infinity Portal > IdP Integration **Allow Connectivity** step, select the checkbox **Enable IDP initiated flow**.

   The **Relay State** field appears.

Step 2: In your OneLogin account, configure the IdP Settings:

a. Navigate to your OneLogin Admin Console.

b. Click **Applications**.

c. Open the application object for the SAML connection to Infinity Portal.

d. From the left toolbar, click **Configuration**.

e. In the **Relay State** field, enter the Relay State from Infinity Portal

f. Click **Save**.

Important - Before you can test the connectivity between OneLogin and the Infinity Portal, you must complete all of the IdP integration steps in the Infinity Portal.

Set User Claims and Group Claims

1. In the OneLogin Portal, go to the **Parameters** tab and click **Add parameter (+)** to enter each value.
   - Field Name - **groups**
     a. Select **Include in SAML assertion**.
     b. Click **Save**.
     c. Value - **User Roles**
     d. Click **Save**.
   - Field Name - **firstName**
     a. Select .
     b. Click **Save**.
     c. Value - **First Name**
     d. Click **Save**.
   - Field Name - **lastName**.
     a. Select **Include in SAML assertion**.
     b. Click **Save**.
     c. Value - **Last Name**.
     d. Click **Save**.
   - Field Name - **email**
     a. Select **Include in SAML assertion**.
     b. Click **Save**.
     c. Value - **Email**
     d. Click **Save**.
   - Field Name - **userId**
     a. Select **Include in SAML assertion**.
     b. Click **Save**.
     c. Value - **Id**
     d. Click **Save**.
2. Click **Save**

Select Relevant Users and Groups

1. Go to **Users** > **Roles**, and click **New Role** to create user roles (groups).
2. Enter the role name and click **Save**.
3. Click the newly created role to edit:
   a. In the Applications tab, click (+), and add Check Point Infinity Portal application. Click **Save**.
   b. Go to the **Users** tab to add users.

      In **Check existing or add new users to this role**, search for applicable users by their names, and click **Check**.
4. For each selected user, click **Add To Role**.
5. The users show in **Users Added Manually**.
6. Click **Save**.
7. Go to the Check Point Infinity Portal application and make sure the users are added.

   Note - Copy the name of the assigned group for use with the Check Point Infinity Portal User group IdP ID field.

Configure

1. On the **Configure Metadata** page, download the Federation Metadata XML from the OneLogin Portal:
   a. In your application, go to the **Configuration** tab > **More Actions** > **SAML Metadata**.

      The file downloads.
   b. Upload the file to the Configure Metadata page in the Identity Provider Wizard.

      Note - Check Point uses the service URL and the name of your Certificate to identify your users behind the sites.
2. Click **Run Test**.

   Check Point verifies the metadata of your Identity Provider.
3. Click **Next**.

Directory Integration

Directory Integration gets information about users and groups for the services you selected in the **Integration Type** step > **Service(s) Integration** section.

Directory Integration does **not** apply to **Users** and **User Groups** in the Infinity Portal.

Important - After you create a Directory Integration, you cannot change it. To create a different Directory Integration, you must create a new Identity Provider (IdP) Integration.

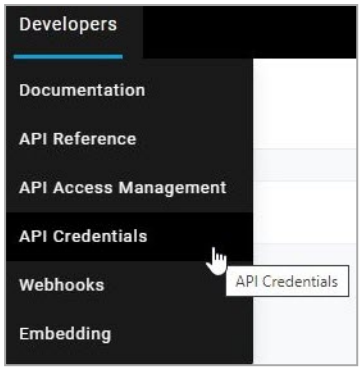
For the Infinity Portal , this feature is optional. To use OneLogin for SSO authentication only, select the checkbox **I want to skip this step and use this IdP for SSO authentication only**.

You can manage user identity data with Manual API Sync or with System for Cross-Domain Identity Management (SCIM).

Directory Integration Method	How it Works	Which Users and Groups are Synced
Manual Sync	Allows Check Point services to query for any change in OneLogin users and groups. The Infinity Portal pulls users and groups from OneLogin.	All users and groups in OneLogin. Nested groups in OneLogin are supported.
SCIM	Allows OneLogin to push any change in the user and group directory to Check Point services.	Only users and groups in OneLogin that are assigned to the SCIM connection you created from OneLogin to the Infinity Portal. **Important -** After you delete a group in OneLogin, OneLogin continues to sync users from that group to the Infinity Portal using SCIM. To prevent this, we recommend to remove all users from a group in OneLogin before you delete it.

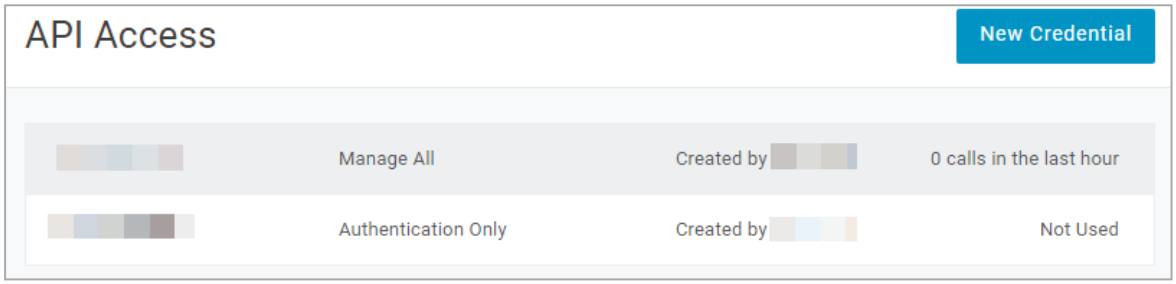
To use Manual Sync

1. In OneLogin, log in to your admin account.
2. From the menu bar, click **Developers** > **API Credentials**.



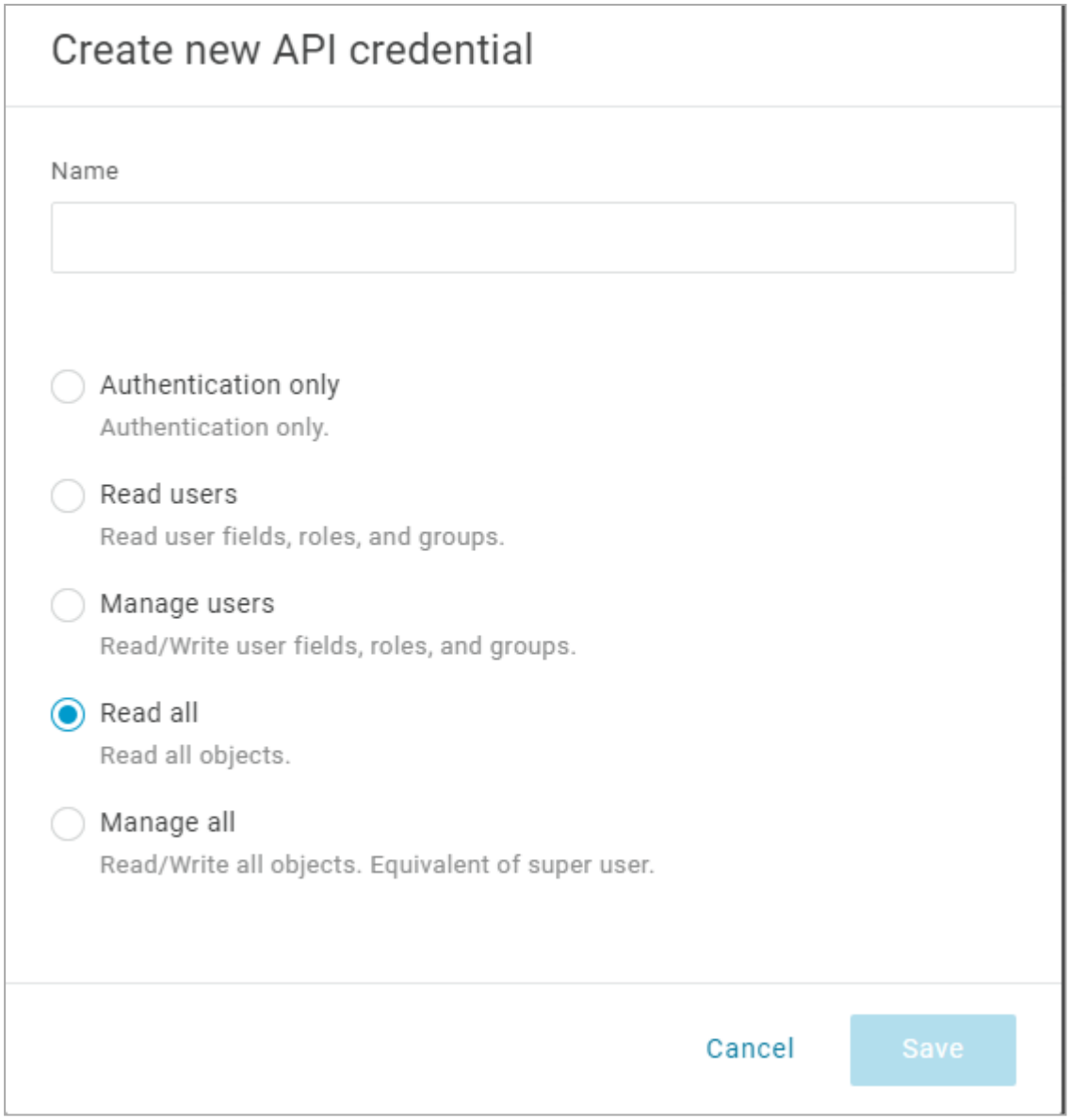
The **API Access** page opens.

3. Click **New Credential**.



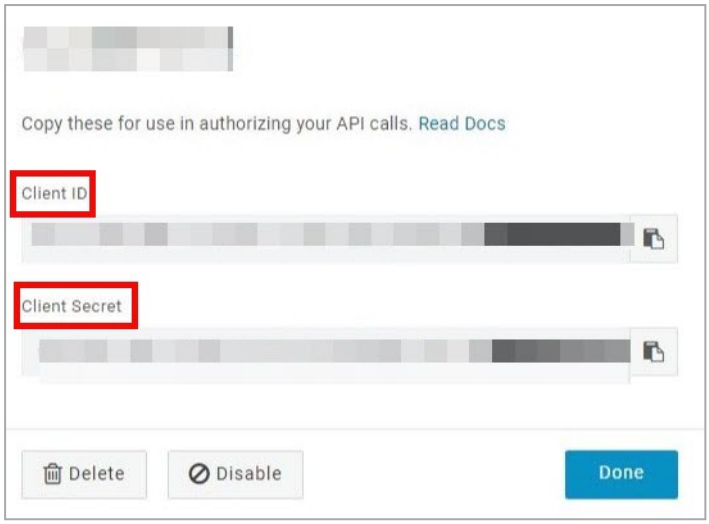
The **Create new API credential** window opens.

4. Enter a name for the new API credential.



5. Select **Read all**.
6. Click **Save**.

   A window with the client credentials opens.



7. Copy these values to a separate file:
   - **Client ID**
   - **Client Secret**

   Best Practice - Check Point recommends that you save the Token Value in a separate, secured file to retrieve it when necessary.

8. In the Infinity Portal IdP wizard, do these steps:
   a. Go to the **Set Directory Integration** page.
   b. In the **Client ID** field, paste the Client ID you copied from OneLogin.
   c. In the **Client Secret** field, paste the Client Secret you copied from OneLogin.
   d. In the **Sub Domain** field, paste the part of the URL for your OneLogin account that comes before ".onelogin.com".

      Example: the Sub Domain for "`theGreatCompany.onelogin.com`" is "`theGreatCompany`".

9. To test the users and group synchronization between the Infinity Portal and the IdP, click **Test Connectivity**.

   If the test is unsuccessful, repeat the *Set Directory Integration* step to configure the user and group synchronization parameters.

10. Click **Next**.

To use SCIM (Automatic Sync)

Note - SCIM is supported only for the OneLogin application type **SCIM Provisioner with SAML (SCIM v2 Core)**.

Step 1 - In the Infinity Portal, copy values and complete the IdP Integration Wizard:

1. In the Infinity Portal > **Directory Integration** step, select **Automatic Sync (SCIM)**.
2. Copy these values and keep them in a safe place:
   - **SCIM API Token**
   - **URL**
3. Click **Next**.

   The **Confirm Identity Provider** step opens.
4. Click **Submit**.

   OneLogin is now integrated with the Infinity Portal. The OneLogin integration appears in the gallery in the Infinity Portal. Complete the SCIM (Automatic Sync) configuration in the OneLogin Portal.

Step 2 - In the OneLogin Application > Configuration section, paste values:

1. In the OneLogin application you created for the Infinity Portal, from the left menu, click **Configuration**.
2. In the **SCIM Base URL** field in the OneLogin Portal, paste the **URL** you copied from the Infinity Portal.
3. In the **SCIM Bearer Token** field in the OneLogin Portal, paste the **SCIM API Token** you copied from the Infinity Portal.
4. In the **Custom Headers** field, enter:

   Value for OneLogin Portal > "Custom Headers" field

   ```
   Content-Type: application/scim+json
   ```
5. In the **API Connection** section, below **API Status**, click **Enabled**.
6. In the **SCIM JSON Template** field, enter:

   Value for OneLogin Portal > "SCIM JSON Template" field

   ```
   {
       "schemas": [
       "urn:ietf:params:scim:schemas:core:2.0:User"
        ],
       "userName": "{$parameters.scimusername}",
       "displayName": "{$user.display_name}",
   ```

Value for OneLogin Portal > "SCIM JSON Template" field

```
    "externalId": "{$user.id}",
    "phoneNumbers":    [{
        "value": "{$parameters.phone}",
        "type": "work",
        "primary": true
    }]
}
```

7. Click **Save**.

Step 3: In the OneLogin Application, configure parameters:

1. In the OneLogin application you created for the Infinity Portal, from the left menu, click **Parameters**.
2. In the **Credentials are** section, make sure that **Configured by admin** is selected. This option is selected by default.
3. In the table, click the **+** button.

   The **New Field** window opens.
4. For **Field name**, enter **phone**.
5. Press "`Enter`" on your keyboard.
6. For **Value**, select **phone**.
7. In the **Flags** section, select **Include in User Provisioning**.
8. Click **Save**.

   The window closes. The **phone** parameter appears in the table.
9. In the table, click the **Groups** table row.

   The **Edit Field Groups** window opens.
10. Select **Include in User Provisioning**.
11. Click **Save**.

    The window closes.
12. Click **Save**.

Step 4: In the OneLogin Application, create rules:

1. In the OneLogin application you created for the Infinity Portal, from the left menu, click **Rules**.
2. Click **Add Rule**.

   The **New mapping window** opens.
3. For **Name**, enter `roles`.
4. In the **Actions** section, select **Set Groups in [NAME OF YOUR APPLICATION]**.
5. Create a rule to assign OneLogin roles to the application. To assign all OneLogin roles to the application, create this rule:

   For each `role` **with value that matches** `.*`
6. Click **Save**.

   The window closes.

Step 5: In the OneLogin Application, enable provisioning:

1. In the OneLogin application you created for the Infinity Portal, from the left menu, click **Provisioning**.
2. In the **Workflow** selection, select **Enable provisioning**.
3. Click **Save**.

Step 6: In the OneLogin Portal, add users to the application:

You must add OneLogin users individually to the application you created for the Infinity Portal.

1. In the OneLogin Portal, from the top menu, click **Users**.
2. Select a user.
3. From the left menu, open the **Applications** tab.
4. Click the **+** icon.

   The **Assign new login to [NAME OF THE USER]** window opens.
5. Select the application you created for the Infinity Portal.
6. Click **Continue**.
7. From the top menu, select **Users** > **Provisioning**.
8. In the table, click the provisioning task for the user that you added.

A window opens.

9. Click **Approve.**

   The window closes.

Confirm Identity Provider Integration

Review the details of the SSO configuration and click **Submit**.

Important - Create a user group with the applicable roles and assign it to the related IdP group name or ID. This depends on the applicable identity provider before you log out. For more information, see *"User Groups" on page 54*.

Ping Identity

Use these steps to configure the SSO authentication with Ping Identity.

Prerequisite

- Permissions to your company's DNS server if you select login-based domain verification as the integration type.

To configure Ping Identity as your Identity Provider:

IdP and Title

1. In the Infinity Portal, go to  > **Identity & Access** and click the plus icon.
2. Enter a name for the **Integration Title** and select **Ping Identity**.
3. To continue, click **Next**.

Integration Type

In this step of the IdP Integration Wizard, you can configure SSO authentication for Infinity Portal administrators and for end users of Check Point services.

Step 1: Configure SSO for Infinity Portal Administrators

1. Select **Enable Administrators to log in to the portal using this IdP**.
2. Select one of these options:
   - **Login based on domain verification** - Infinity Portal Administrators can log in to this Infinity Portal account with SSO from the Identity Provider. Administrators log in through the Infinity Portal login page.
   - **Login with a unique URL** - Infinity Portal Administrators can log in to multiple Infinity Portal accounts with SSO from the Identity Provider. Administrators log in using the URL that appears at the bottom of the **Login with a unique URL** section. Copy this URL and keep it in a safe place.

Step 2: Configure SSO for Users of Infinity Portal Services

1. In the **Service(s) Integration** section, select **one** of these options:
   - **No Services** - End users of Infinity Portal services cannot authenticate with SSO from the Identity Provider. This is the default configuration.

- **All Services** - End users can log in with SSO from the Identity Provider to all Check Point services that support SSO.
- **Specific Service(s)** - From the list of services, select service(s) to allow end users to log into with SSO from the Identity Provider. Available services:
  - **Harmony Connect**
  - **Quantum Gateways**

2. Click **Next** (or, if you are editing a configuration, **Apply**) to complete the Integration Type configuration.

Verify Domain

Note - If for **Integration Type** you selected **Login with a unique URL**, the **Verify Domain** step is not necessary.

1. Connect to your DNS server.
2. Copy the DNS **Value** from the Infinity Portal IdP Integration wizard > **Verify Domain** step.
3. On your DNS server, enter the **Value** as a TXT record.
4. In the Infinity Portal > **Domain(s)** section, enter a public DNS domain server name and click the plus icon.

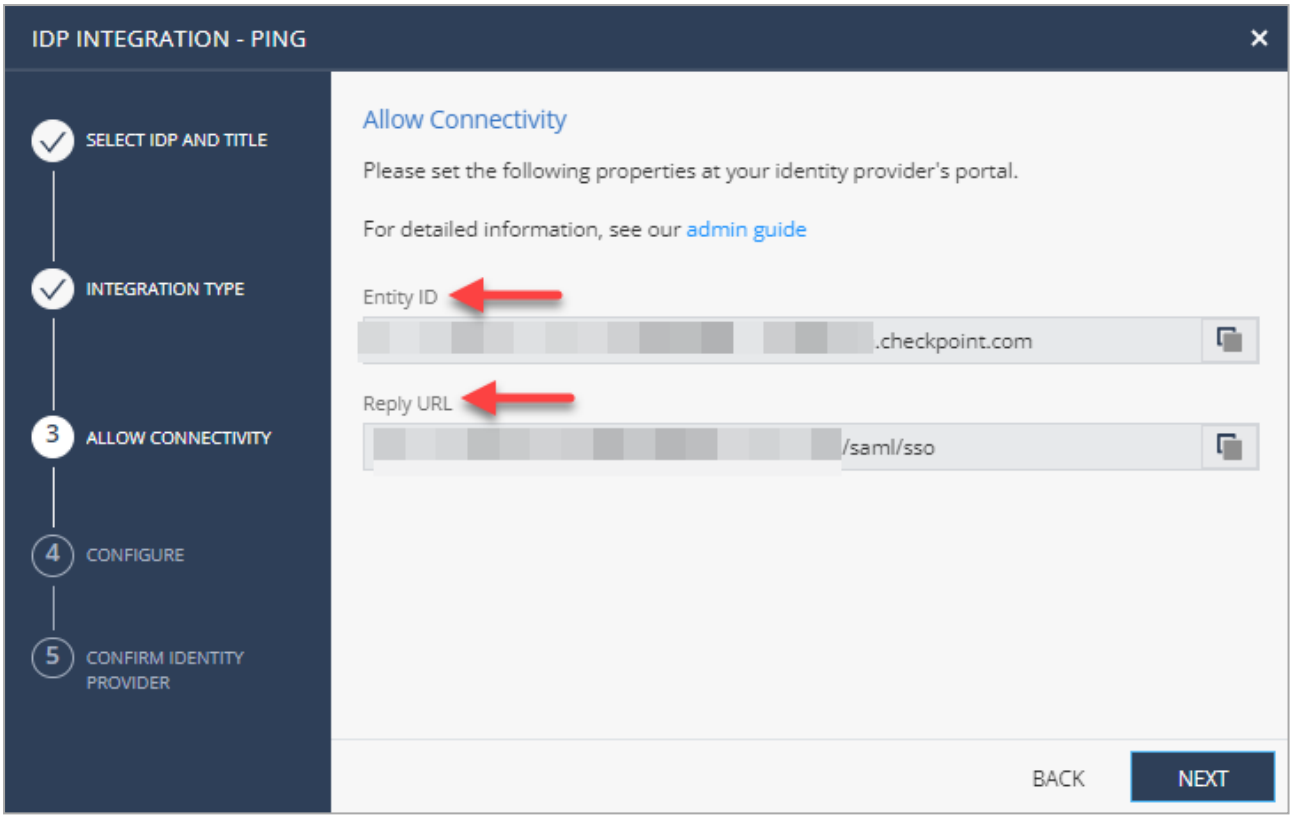
   Check Point makes a DNS query to verify your domain's configuration.
5. **Optional** - add more DNS domain servers.
6. Click **Next**.

   Note - Wait until the DNS record propagates and becomes resolvable.

Allow Connectivity

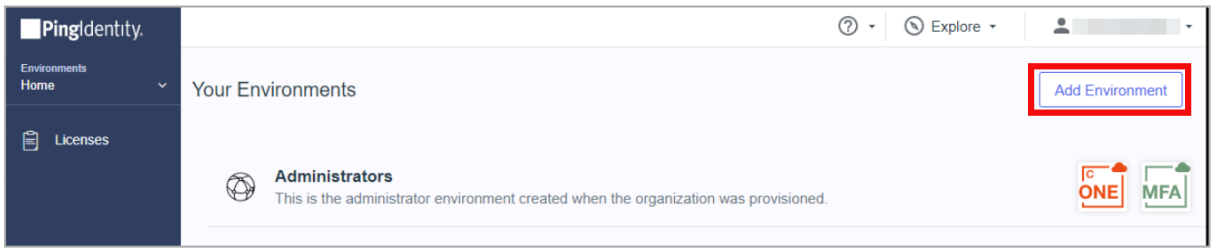
In this step, you create a SAML application in the Ping Identity Portal.

Before you start, in the Infinity Portal, copy and save the **Entity ID** and the **Reply URL**.

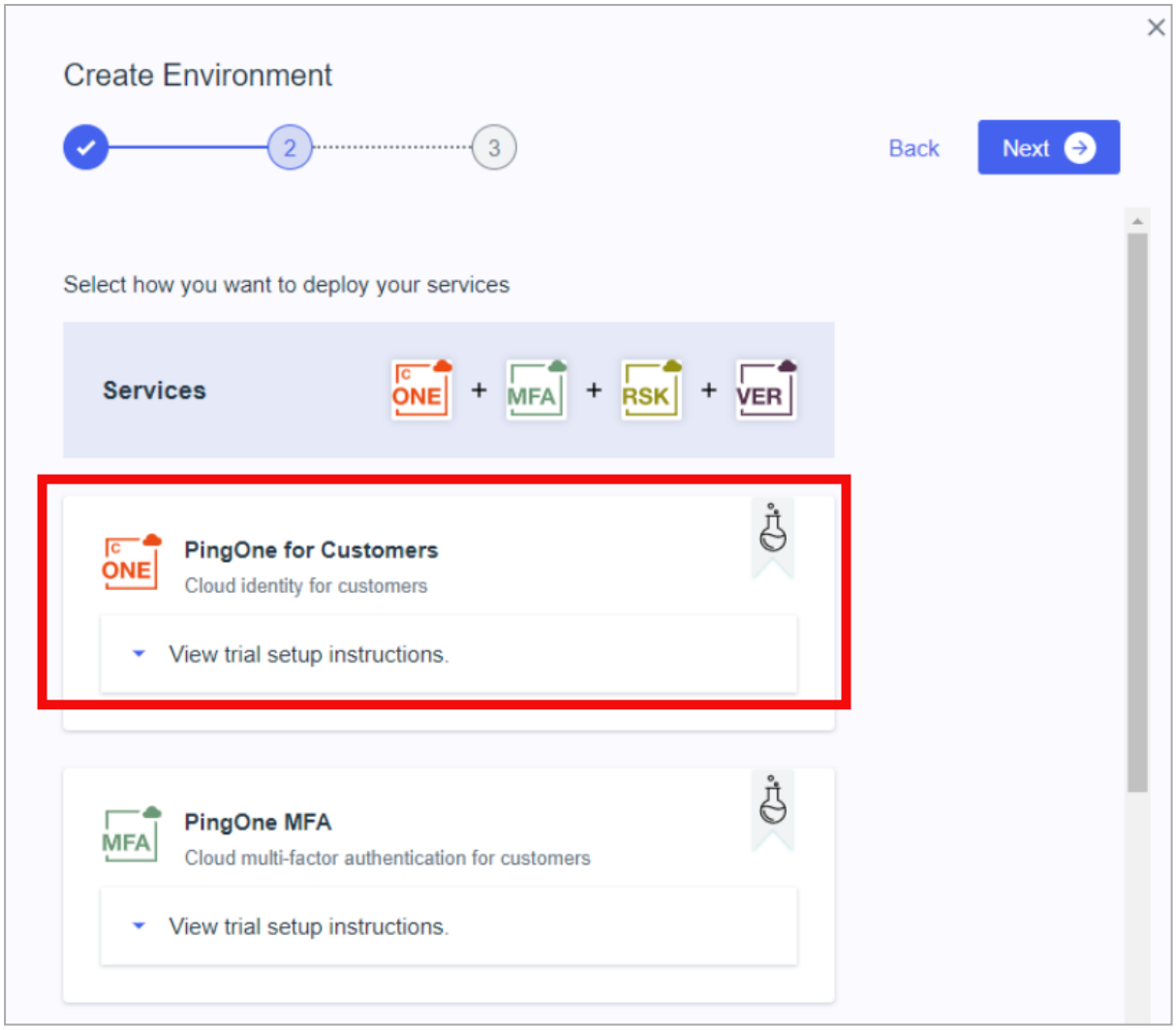


First, create a new environment in the Ping Identity Portal.

1. Log in to your Ping Identity Portal.
2. Go to the **Home** page and click **Add Environment**.



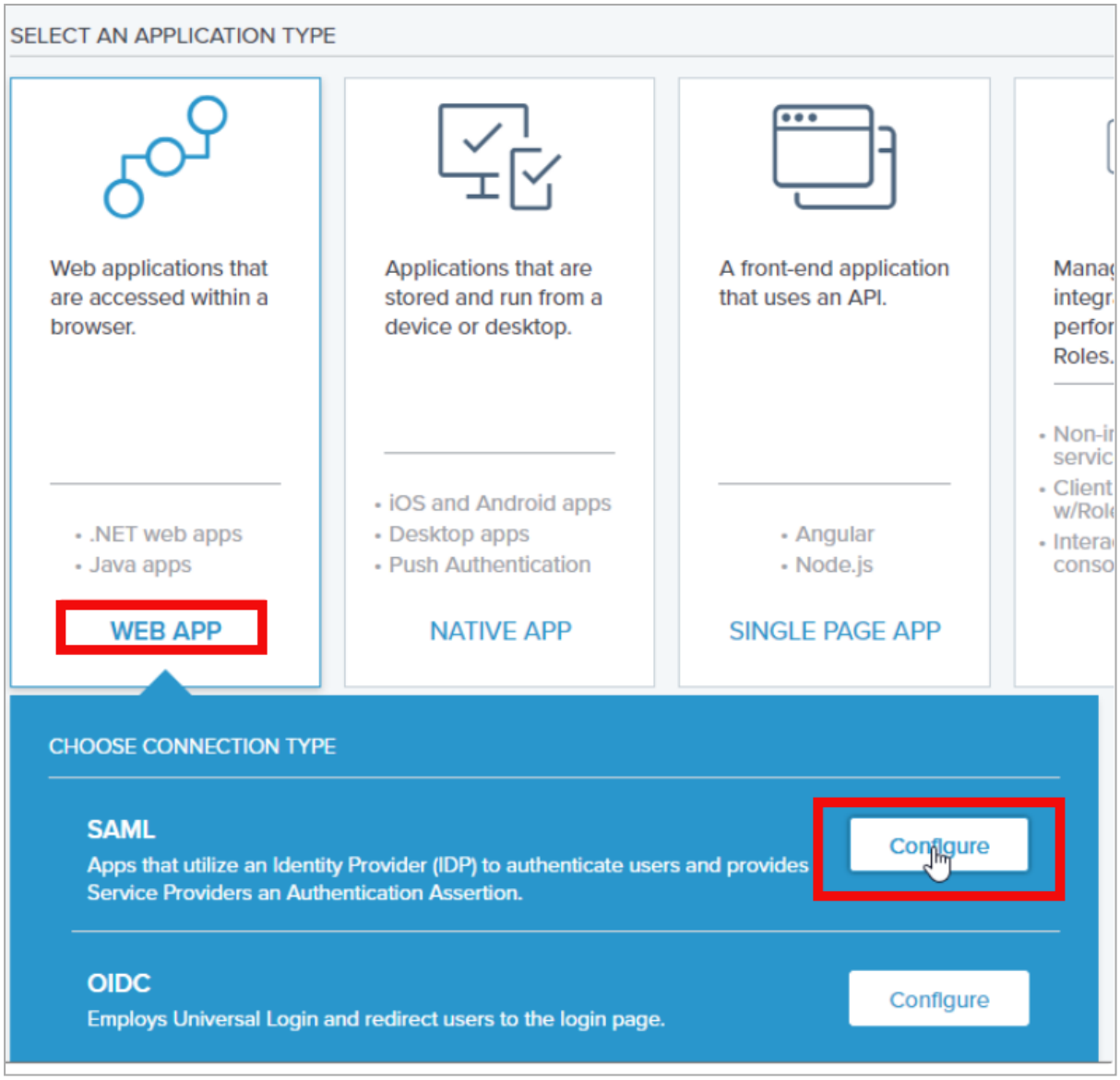
3. Select **Customer solution** and click **Next**.
4. Make sure **PingOne for Customers** is available. Click **Next**.



5. Enter all relevant information in the form.
6. Click Finish. Ping Identity redirects you to the **Home** page.

In the new environment, create a web application.

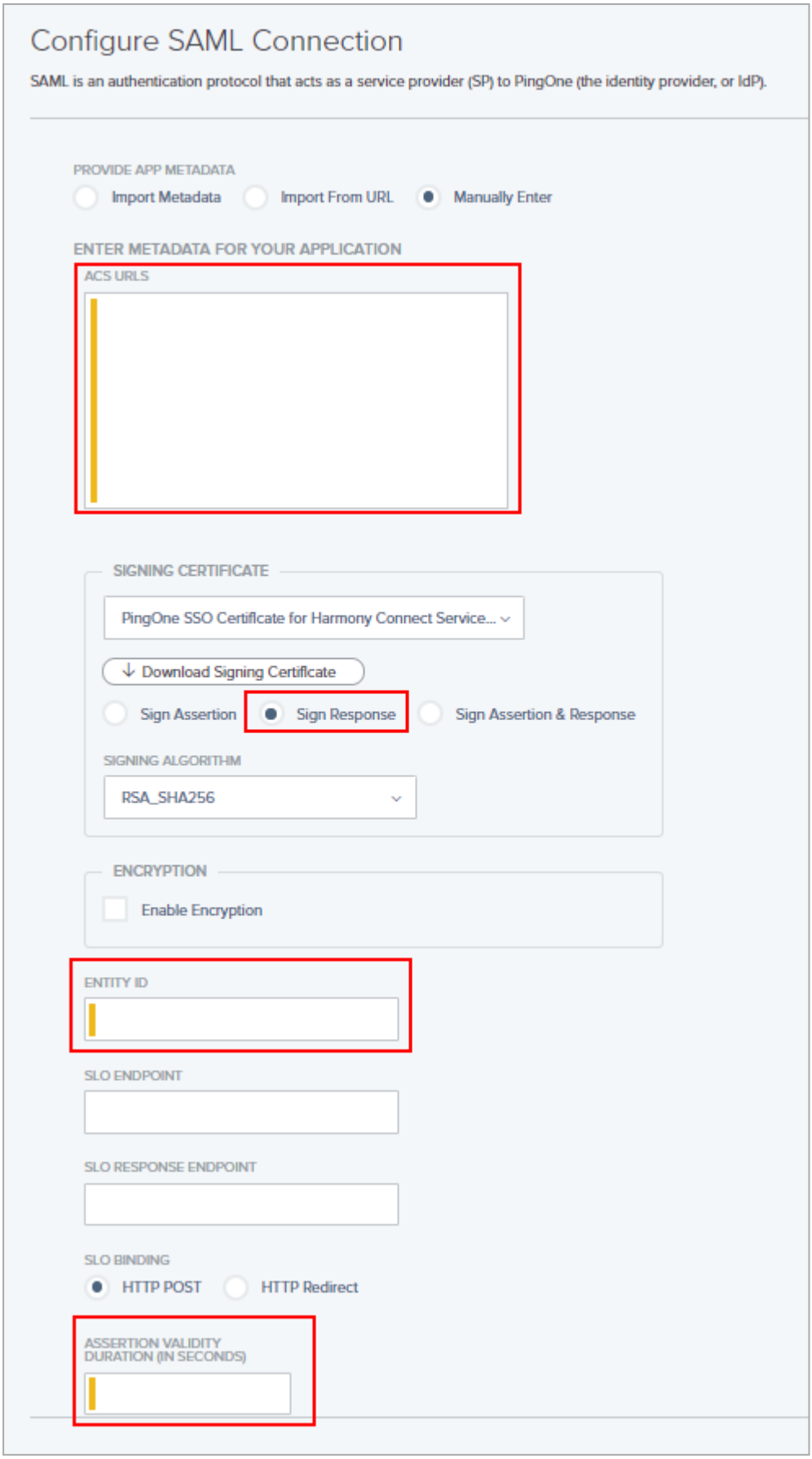
1. Navigate to **Connections** > **Applications** and click **Add Application**.
2. Click **WEB APP**, then select **SAML** and click **Configure**.



3. A new **Create App Profile** page opens.
4. Enter the application details. For example, set the application name to Check Point Infinity Portal.
5. Click **Next**. The **Configure SAML Connection** page opens.
6. Under **Provide Meta Data**, select **Manually Enter**.
7. Configure SAML Connection:
   - **ACS URLs** - Use the **Reply URL**.
   - **Signing** - Set to **Sign Response**.

- **Entity ID** - Use the **Entity ID** that you copied from the SSO wizard.

- **Assertion Validity Duration** - Set to **3600**.


Configure SAML Connection
SAML is an authentication protocol that acts as a service provider (SP) to PingOne (the identity provider, or IdP).
PROVIDE APP METADATA
Import Metadata
Import From URL
Manually Enter
ENTER METADATA FOR YOUR APPLICATION
ACS URLS
SIGNING CERTIFICATE
PingOne SSO Certificate for Harmony Connect Service...
Download Signing Certificate
Sign Assertion
Sign Response
Sign Assertion & Response
SIGNING ALGORITHM
RSA_SHA256
ENCRYPTION
Enable Encryption
ENTITY ID
SLO ENDPOINT
SLO RESPONSE ENDPOINT
SLO BINDING
HTTP POST
HTTP Redirect
ASSERTION VALIDITY DURATION (IN SECONDS)

8. Click **Save and Continue**.
9. In the **Map Attributes** page, configure SAML attributes. The **User ID** attribute = **saml_subject** appears by default. Change **User ID** to **Email Address**.
10. Click **Add Attribute** and select **PingOneAttribute** to add a new attribute:
    a. For **User Attribute**, select **Group Names**.
    b. For **Application Attribute**, enter **memberOf**.
    c. Select the **Required** option.
11. Click **Add Attribute** and select **PingOneAttribute** to add a new attribute:
    a. For **User Attribute**, select **Given Name**.
    b. For **Application Attribute**, enter **firstName**.
    c. Select the **Required** option.
12. Click **Add Attribute** and select **PingOneAttribute** to add a new attribute:
    a. For **User Attribute**, select **Family Name**.
    b. For **Application Attribute**, enter **lastName**.
    c. Select the **Required** option.
13. Click **Add Attribute** and select **PingOneAttribute** to add a new attribute:
    a. For **User Attribute**, select **Email Address**.
    b. For **Application Attribute**, enter **email**.
    c. Select the **Required** option.
14. Click **Add Attribute** and select **PingOneAttribute** to add a new attribute:
    a. For **User Attribute**, select **User Id**.
    b. For **Application Attribute**, enter **userid**.
    c. Select the **Required** option.
15. Click **Save and Close**.
16. Ping Identity redirects you to the **Applications** page. In your newly created application, go to the **Configuration** tab and click **Download** under **Connection Details** > **Download Metadata**.
17. Download the **SAML Metadata** file to your computer.

OPTIONAL - Enable IdP-Initiated flow

IdP Initiated lets you connect directly to the Infinity Portal from your Ping Identity admin console. To do this, you must create an Infinity Portal app card in your Ping Identity admin console. See the Ping Identity documentation for the Application portal.

Step 1: In Infinity Portal, enable IdP Initiated flow:

In the Infinity Portal > IdP Integration **Allow Connectivity** step, select the checkbox **Enable IDP initiated flow**.

The **Relay State** field appears.

Step 2: In your Ping Identity account, configure the IdP Settings:

1. Navigate to your Ping Identity admin console.
2. From the left toolbar, click **Connections** > **Applications**.
3. Open the application object for the SAML connection to Infinity Portal.
4. From the top navigation toolbar, click **Overview**.
5. Click the **Protocol SAML** button.

   The **Edit Configuration** menu opens for the application object.
6. In the **Edit Configuration** menu > **Target Application URL** field, enter the **Relay State** from Infinity Portal.
7. Click **Save**.

Important - Before you can test the connectivity between Ping Identity and Infinity Portal, you must complete all of the IdP integration steps in Infinity Portal.

Configure

In this step, you upload the federation metadata XML file.

1. On the Infinity Portal, Identity Provider Wizard > **Configure Metadata** page, upload the Federation Metadata XML that you downloaded from the Ping Identity Portal.

   Note - Check Point uses the service URL and the name of your Certificate to identify your users behind the site.
2. Click **Next**. Check Point verifies the metadata of your Identity Provider.

Directory Integration

To use Ping Identity for SSO authentication only, select the checkbox **I want to skip this step and use this IdP for SSO authentication only**.

Directory Integration gets information about users and groups for the services you selected in the **Integration Type** step > **Service(s) Integration** section.

Directory Integration does **not** apply to **Users** and **User Groups** in the Infinity Portal.

Important - After you create a Directory Integration, you cannot change it. To create a different Directory Integration, you must create a new Identity Provider (IdP) Integration.

For the Infinity Portal , this feature is optional. To use Ping Identity for SSO authentication only, select the checkbox **I want to skip this step and use this IdP for SSO authentication only**.

You can manage user identity data with Manual API Sync or with System for Cross-Domain Identity Management (SCIM).

Directory Integration Method	How it Works	Which Users and Groups are Synced
Manual Sync	Allows Check Point services to query for any change in Ping Identity users and groups. The Infinity Portal pulls users and groups from Ping Identity.	All users and groups in Ping Identity. Nested groups in Ping Identity are supported.
SCIM (Automatic Sync)	Allows Ping Identity to push any change in the user and group directory to Check Point services.	Only users and groups in Ping Identity that are assigned to the SCIM connection you created from Ping Identity to the Infinity Portal.

To use Manual Sync

Step 1 - Set up Users and Groups Synchronization:

To start, create a Worker application and then you can set up permissions for users and groups.

Step 2 - Create a Worker application in the Ping Identity Portal:

1. In the Ping Identity Portal, from the left menu, expand **Applications** > click **Add Application**.

   The **Applications** page opens.

2. At the top of the page click the "**+**" icon to the right of the word **Applications**.

The **Add Application** window opens.

3. In the **Application Name** field, enter a name for the application.
4. In the **Application Type** section, select **Worker**.
5. Click **Save**.

   Ping Identity creates an application object.

Step 3 - Set up Users and Groups Permissions:

Set up permissions to allow the selection of users and user groups from your Ping Identity for the Infinity Portal SSO.

1. In the application object, open the **Configuration** tab.
2. In the upper right, click the edit button (pencil icon).
3. In the **Grant Type** section, select **Client Credentials**.
4. In the Token Endpoint Authentication Method field, select **Client Secret Post**.
5. Click **Save**.
6. Open the **Roles** tab.
7. Click **Identity Data Read Only** > **Select All**.
8. Click **Save**.
9. On the **Applications** page:
   a. Move the slider for the Web App SAML application you created for the Infinity Portal to the on position.
   b. Move the slider for the Worker application you created for the Infinity Portal to the on position.

Step 4 - Copy the relevant values to the Infinity Portal Wizard:

- **Environment ID** - In Ping Identity Portal, from the left toolbar, click **Settings** > **Environment Properties** and copy the value of **Environment ID**.
- **Region** - In Ping Identity Portal, from the left toolbar, click, **Settings** > **Environment Properties** and view the region. In the Wizard, enter **EU** for Europe, **COM** for the United States, and **ASIA** for the Asian Pacific.
- **Client ID** and **Shared Secret** - In Ping Identity Portal, from the left toolbar, click **Applications** and open your Worker application. Open the **Overview** tab and copy these values: **Client ID** and **Client Secret**.

Best Practice - Check Point recommends that you save the 'Client Secret' value in a separate secured file to retrieve it when it is required.

Step 5 - Verify that all fields in Directory Integration are correct:

1. To test the users and group synchronization between the Infinity Portal and the Identity Provider, click **Test Connectivity**.
2. If the test is unsuccessful, repeat the *Set Directory Integration* step to configure the user and group synchronization parameters.
3. Click **Next**.

To use SCIM (Automatic Sync)

Prerequisites:

- In the Infinity Portal create a user group with an **Admin** global role. See *"Users" on page 49*.
- You must have Administrator permissions for the Ping Identity account.

Step 1 - In the Infinity Portal, copy values and finish the IDP Integration Wizard:

1. In the Infinity Portal > **Directory Integration** step, select **Automatic Sync (SCIM)**.
2. Copy these values and keep them in a safe place:
   - **SCIM API Token**
   - **URL**
3. Click **Next**.

   The **Confirm Identity Provider** step opens.
4. Click **Submit**.

   Ping Identity is now integrated with the Infinity Portal. The Ping Identity integration appears in the gallery in the Infinity Portal. Finish configuring SCIM (Automatic Sync) in the Ping Identity Portal.

Step 2 - In the Ping Identity Portal, create a new Connection:

1. In the Ping Identity Portal, from the left menu, expand **Integrations** > click **Provisioning**.
2. Next to **Provisioning**, click the **+** button.

   The **Create a New Connection** wizard opens.
3. To the right of **Identity Store**, click **Select**.

4. Search "`scim`".
5. Select **SCIM Outbound**.
6. Wizard Step 1:
    a. Enter a name for the integration. **Example:** "Infinity Portal SCIM".
    b. Click **Next**.
7. Wizard Step 2:
    a. In the **Configure Authentication** section > **SCIM BASE URL** field, paste the **URL** you copied from the Infinity Portal.
    b. For **Authentication Method** select **OAuth2 Bearer Token**.
    c. In the **Oauth Access Token** field, paste the **SCIM API Token** you copied from the Infinity Portal.
    d. Click **Test Connection**.

    If the test is successful, a confirmation message appears. If the test fails, make sure that you copied and pasted the values correctly from the Infinity Portal to the Ping Identity Portal.

    e. In the Ping Identity Portal, click **Next**.
8. Wizard Step 3:
    a. In the **Configure Parameters** section, select **Deprovision on Rule Deletion**.

    Important - Do not change the default values of other parameters.

    b. Click **Save**.

    The wizard closes. The new connection you created for the Infinity Portal appears in the **Provisioning** menu > **Connections** tab. By default, this connection is not active.

    c. In the top right, move the slider to the "on" position to activate the connection.

Step 3 - In the Ping Identity Portal, create a rule for the connection:

1. In the **Provisioning** menu, open the **Rules** tab.
2. Click the **+** button > **New Rule**.

    The **Create a New Rule** window opens.
3. Enter a name for the rule.

4. Click **Create Rule**.
5. In the **Available Connections** section, to the right of the name of the connection you created for the Infinity Portal, click the **+** button.
6. Click **Save**.

Step 4 - In the Ping Identity Portal, add users to the rule:

1. Click the **User Filter** icon.
2. Next to **User Filter**, click the edit (pencil) button.
3. Create user filters. For more information, see Ping Identity documentation.
4. Click **Save**.

Step 5 - In the Ping Identity Portal, add attributes to the rule:

1. Click the **Attribute Mapping** icon.
2. Next to **Attribute Mapping**, click the edit (pencil) button.
3. Add these attributes:

PingOne Directory	myScim
Enabled	`active`
Given Name	`displayName`
User ID	`externalID`
Username	`userName`
Primary Phone	`workPhone`

4. Click **Save**.

Step 6: In the Ping Identity Portal, add groups to the rule:

1. Click the **Global Provisioning** icon.
2. Click **Add Groups**.

3. Select groups to add to the rule.

   Note - If groups are in a hierarchy, you must select the parent and the child group individually. **Example:** Group A is the parent of Group B. To add Group B to the rule, you must select Group A and Group B.

4. Click **Save**.

Step 7: In the Ping Identity Portal, apply the rule to the connection:

1. In the **Configuration** tab, make sure all of the values are correct.
2. In the top right, move the slider to the "on" position to apply the rules.

Confirm Identity Provider Integration

Review the details of the SSO configuration and click **Submit**.

Important - Create a user group with the applicable roles and assign it to the related IdP group name or ID. This depends on the applicable identity provider before you log out. For more information, see *"User Groups" on page 54*.

PingFederate

Follow these steps to configure SSO authentication with PingFederate.

Prerequisite

- Permissions to your company's DNS server if you select login-based domain verification as the integration type.

IdP and Title

1. In the Infinity Portal, go to  > **Identity & Access** and click the plus icon.
2. Enter a name for the **Integration Title** and select **PingFederate**.
3. To continue, click **Next**.

Integration Type

In this step of the IdP Integration Wizard, you can configure SSO authentication for Infinity Portal administrators and for end users of Check Point services.

Step 1: Configure SSO for Infinity Portal Administrators

1. Select **Enable Administrators to log in to the portal using this IdP**.
2. Select one of these options:
   - **Login based on domain verification** - Infinity Portal Administrators can log in to this Infinity Portal account with SSO from the Identity Provider. Administrators log in through the Infinity Portal login page.
   - **Login with a unique URL** - Infinity Portal Administrators can log in to multiple Infinity Portal accounts with SSO from the Identity Provider. Administrators log in using the URL that appears at the bottom of the **Login with a unique URL** section. Copy this URL and keep it in a safe place.

Step 2: Configure SSO for Users of Infinity Portal Services

1. In the **Service(s) Integration** section, select **one** of these options:
   - **No Services** - End users of Infinity Portal services cannot authenticate with SSO from the Identity Provider. This is the default configuration.
   - **All Services** - End users can log in with SSO from the Identity Provider to all Check Point services that support SSO.

- **Specific Service(s)** - From the list of services, select service(s) to allow end users to log into with SSO from the Identity Provider. Available services:
  - **Harmony Connect**
  - **Quantum Gateways**

2. Click **Next** (or, if you are editing a configuration, **Apply**) to complete the Integration Type configuration.

Verify Domain

Note - If for **Integration Type** you selected **Login with a unique URL**, the **Verify Domain** step is not necessary.

1. Connect to your DNS server.
2. Copy the DNS **Value** from the Infinity Portal IdP Integration wizard > **Verify Domain** step.
3. On your DNS server, enter the **Value** as a TXT record.
4. In the Infinity Portal > **Domain(s)** section, enter a public DNS domain server name and click the plus icon.

   Check Point makes a DNS query to verify your domain's configuration.
5. **Optional** - add more DNS domain servers.
6. Click **Next**.

   Note - Wait until the DNS record propagates and becomes resolvable.

Allow Connectivity

1. In the PingFederate portal, create a SAML application for the Infinity Portal. For more information, see PingFederate documentation.
2. Copy the **Entity ID** from the Infinity Portal and paste it in the relevant field in the SAML application in the PingFederate portal.
3. **Optional -** Select **Enable IDP initiated flow** to allow users of the PingFederate SAML application to access the Infinity Portal directly from the PingFederate portal.
4. Copy the **Reply URL** from the Infinity Portal and paste it in the relevant field in the SAML application you created in the PingFederate portal.
5. In the SAML application you created in the PingFederate portal, add the attributes and claims shown in the Infinity Portal > **Mandatory User Attributes & Claims** section.
6. Click **Next**.

Important - Before you can test the connectivity between Ping Identity and Infinity Portal, you must complete all of the IdP integration steps in Infinity Portal.

Configure

In this step, you upload the federation metadata XML file.

1. On the Infinity Portal, Identity Provider Wizard > **Configure Metadata** page, upload the Federation Metadata XML that you downloaded from the PingFederate Portal.

   Note - Check Point uses the service URL and the name of your Certificate to identify your users behind the site.

2. Click **Next**. Check Point verifies the metadata of your Identity Provider.

Confirm Identity Provider Integration

Review the details of the SSO configuration and click **Submit**.

Important - Create a user group with the applicable roles and assign it to the related IdP group name or ID. This depends on the applicable identity provider before you log out. For more information, see *"User Groups" on page 54*.

Generic SAML Server

Use these instructions to configure the SSO authentication with a Generic SAML server.

Prerequisite

- Permissions to your company's DNS server if you select login-based domain verification as the integration type.

Select IdP and Title

1. In the Infinity Portal, go to  > **Identity & Access** and click the plus icon.
2. Enter a name for the **Integration Title** and select **Generic SAML Server**.
3. Click **Next**.

Integration Type

In this step of the IdP Integration Wizard, you can configure SSO authentication for Infinity Portal administrators and for end users of Check Point services.

Step 1: Configure SSO for Infinity Portal Administrators

1. Select **Enable Administrators to log in to the portal using this IdP**.
2. Select one of these options:
   - **Login based on domain verification** - Infinity Portal Administrators can log in to this Infinity Portal account with SSO from the Identity Provider. Administrators log in through the Infinity Portal login page.
   - **Login with a unique URL** - Infinity Portal Administrators can log in to multiple Infinity Portal accounts with SSO from the Identity Provider. Administrators log in using the URL that appears at the bottom of the **Login with a unique URL** section. Copy this URL and keep it in a safe place.

Step 2: Configure SSO for Users of Infinity Portal Services

1. In the **Service(s) Integration** section, select **one** of these options:
   - **No Services** - End users of Infinity Portal services cannot authenticate with SSO from the Identity Provider. This is the default configuration.
   - **All Services** - End users can log in with SSO from the Identity Provider to all Check Point services that support SSO.

- **Specific Service(s)** - From the list of services, select service(s) to allow end users to log into with SSO from the Identity Provider. Available services:
  - **Harmony Connect**
  - **Quantum Gateways**

2. Click **Next** (or, if you are editing a configuration, **Apply**) to complete the Integration Type configuration.

Verify Domain

Note - If for **Integration Type** you selected **Login with a unique URL**, the **Verify Domain** step is not necessary.

1. Connect to your DNS server.
2. Copy the DNS **Value** from the Infinity Portal IdP Integration wizard > **Verify Domain** step.
3. On your DNS server, enter the **Value** as a TXT record.
4. In the Infinity Portal > **Domain(s)** section, enter a public DNS domain server name and click the plus icon.

   Check Point makes a DNS query to verify your domain's configuration.
5. **Optional** - add more DNS domain servers.
6. Click **Next**.

   Note - Wait until the DNS record propagates and becomes resolvable.

Allow Connectivity

Copy the URLs and enter them at your identity provider's portal.

Configure

Upload the federation metadata XML file that your IdP provides.

Confirm Identity Provider Integration

Review the details of the SSO configuration and click **Submit**.

Important - Create a user group with the applicable roles and assign it to the related IdP group name or ID. This depends on the applicable identity provider before you log out. For more information, see *"User Groups" on page 54*.

Google Workspace

Use these steps to configure the SSO authentication with Google Workspace.

Prerequisite

- Permissions to your company's DNS server if you select login-based domain verification as the integration type.

IdP and Title

1. In the Infinity Portal, go to  > **Identity & Access** and click the plus icon.
2. Enter a name for the **Integration Title** and select **Google Workspace**.
3. Click **Next**. The DNS (Domain Name System) record is generated.

Integration Type

In this step of the IdP Integration Wizard, you can configure SSO authentication for Infinity Portal administrators and for end users of Check Point services.

Step 1: Configure SSO for Infinity Portal Administrators

1. Select **Enable Administrators to log in to the portal using this IdP**.
2. Select one of these options:
   - **Login based on domain verification** - Infinity Portal Administrators can log in to this Infinity Portal account with SSO from the Identity Provider. Administrators log in through the Infinity Portal login page.
   - **Login with a unique URL** - Infinity Portal Administrators can log in to multiple Infinity Portal accounts with SSO from the Identity Provider. Administrators log in using the URL that appears at the bottom of the **Login with a unique URL** section. Copy this URL and keep it in a safe place.

Step 2: Configure SSO for Users of Infinity Portal Services

1. In the **Service(s) Integration** section, select **one** of these options:
   - **No Services** - End users of Infinity Portal services cannot authenticate with SSO from the Identity Provider. This is the default configuration.
   - **All Services** - End users can log in with SSO from the Identity Provider to all Check Point services that support SSO.

- **Specific Service(s)** - From the list of services, select service(s) to allow end users to log into with SSO from the Identity Provider. Available services:
  - **Harmony Connect**
  - **Quantum Gateways**

2. Click **Next** (or, if you are editing a configuration, **Apply**) to complete the Integration Type configuration.

Verify your Domain

Note - If for **Integration Type** you selected **Login with a unique URL**, the **Verify Domain** step is not necessary.

1. Connect to your DNS server.
2. Copy the DNS **Value** from the Infinity Portal IdP Integration wizard > **Verify Domain** step.
3. On your DNS server, enter the **Value** as a TXT record.
4. In the Infinity Portal > **Domain(s)** section, enter a public DNS domain server name and click the plus icon.

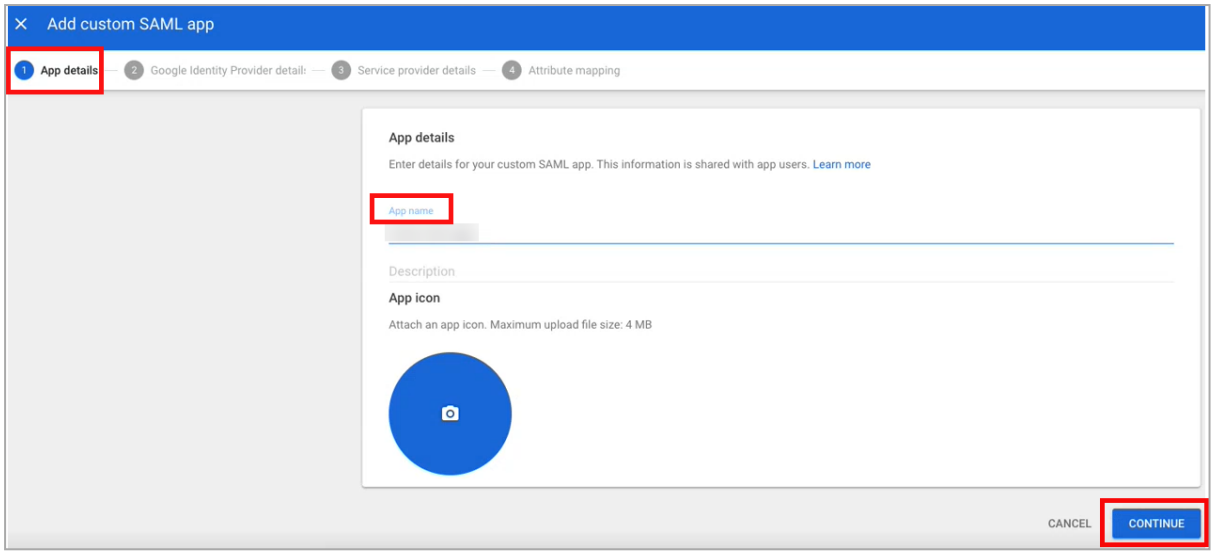
   Check Point makes a DNS query to verify your domain's configuration.
5. **Optional** - add more DNS domain servers.
6. Click **Next**.

   Note - Wait until the DNS record propagates and becomes resolvable.

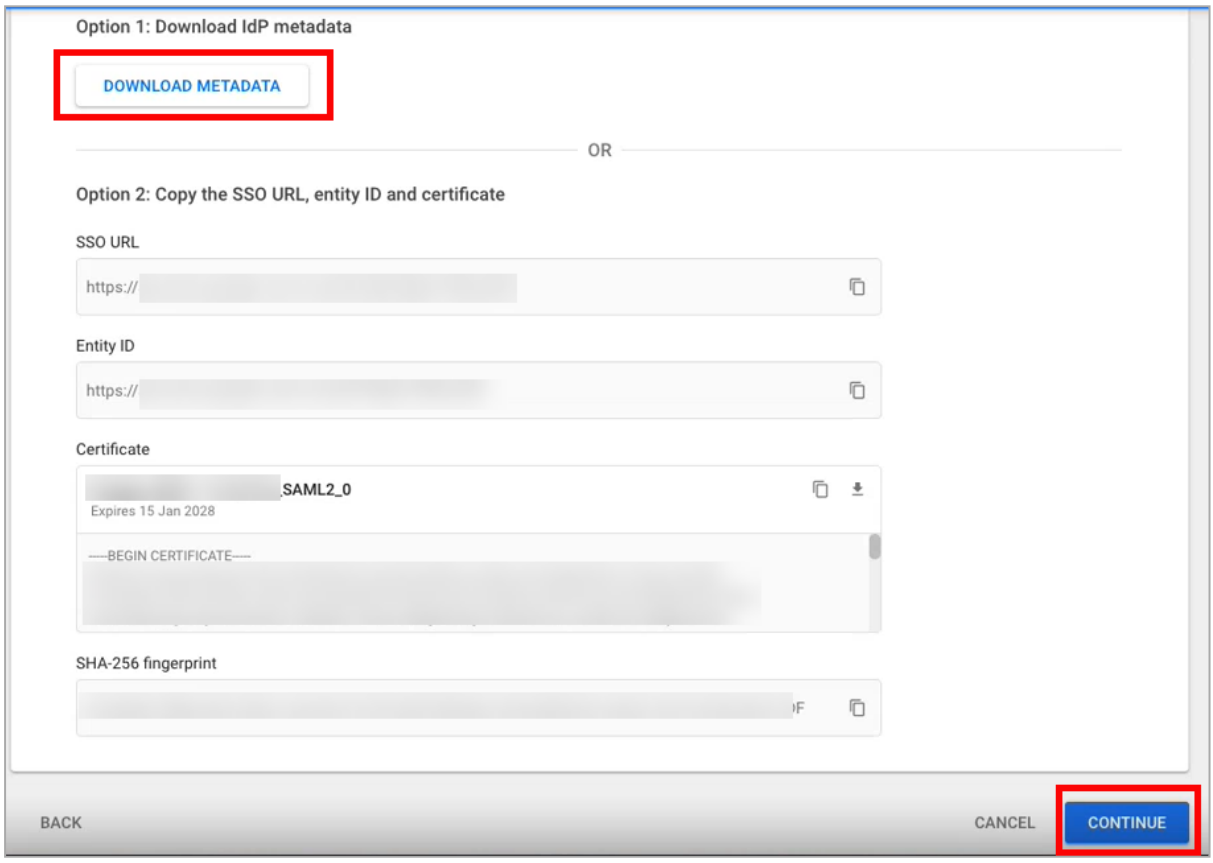
Allow Connectivity

To configure the Google Workspace settings, you must have administrator permissions. In this step, you create a SAML Application in the Google Workspace Portal.

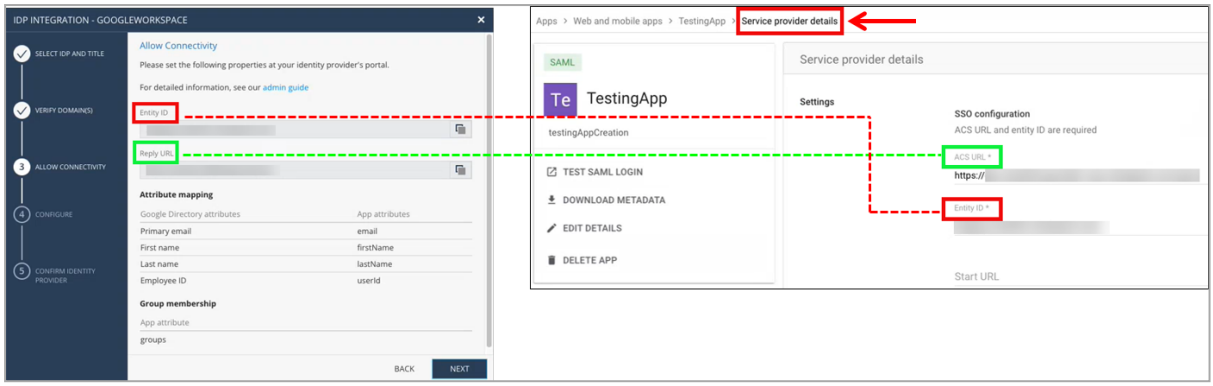
1. Navigate to the Google Workspace Admin console.
2. From the side toolbar, select **Apps** > **Web and mobile apps**.
3. In the top toolbar, select **Add app** > **Add custom SAML app**.
4. On the **App details** pages, below the **App name** enter a name and click **Continue**.



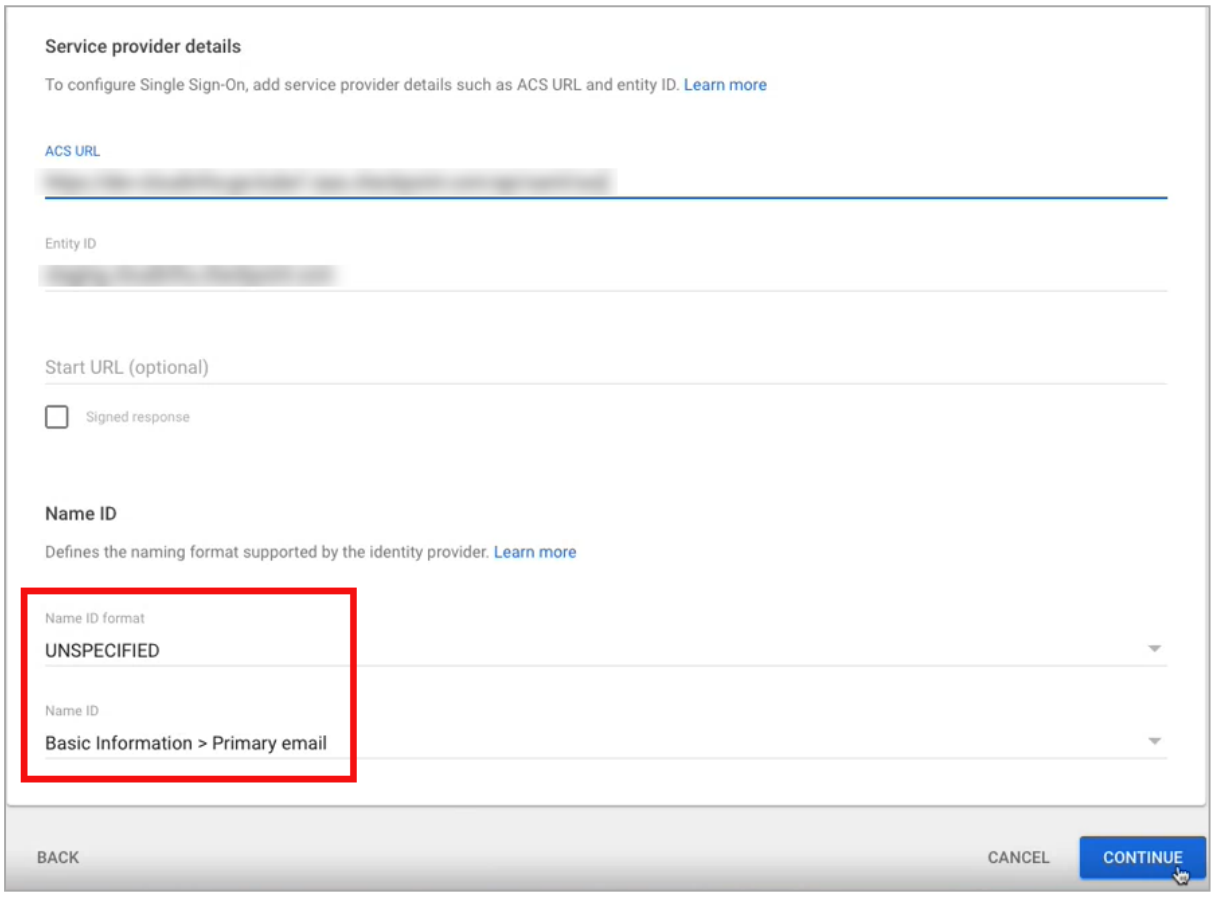
5. Click **Download Metadata** and click **Continue**.



6. On the **Service provider details** page, enter the ACS URL and **Entity ID** from the Infinity Portal. For the **ACS URL**, use the **Reply URL** from the IdP Integration page, as shown in this screenshot:



7. Keep **Name ID format** as *Unspecified* and **Name ID** as *Basic Information > Primary Email*.



OPTIONAL - Enable IdP-Initiated flow

IdP Initiated lets you connect directly to the Infinity Portal from your Google Workspace Admin Console. To do this, you must create an Infinity Portal app card in your Google Workspace Admin Console. See the Google Workspace documentation for Add-ons.

Step 1: In Infinity Portal, enable IdP Initiated flow:

In the Infinity Portal > IdP Integration **Allow Connectivity** step, select the checkbox **Enable IDP initiated flow**.

The **Start URL** field appears.

Step 2: In your Google Workspace account, configure the IdP Settings:

a. Navigate to your Google Workspace Admin Console.

b. From the left toolbar click **Apps** > **Web and mobile Apps**.

The **Web and mobile apps** menu opens.

c. From the **Web and mobile apps** menu, open the application object for the SAML connection to Infinity Portal.

d. Expand the **Service provider details** menu.

e. In the **Start URL** field, enter the Start URL from Infinity Portal.

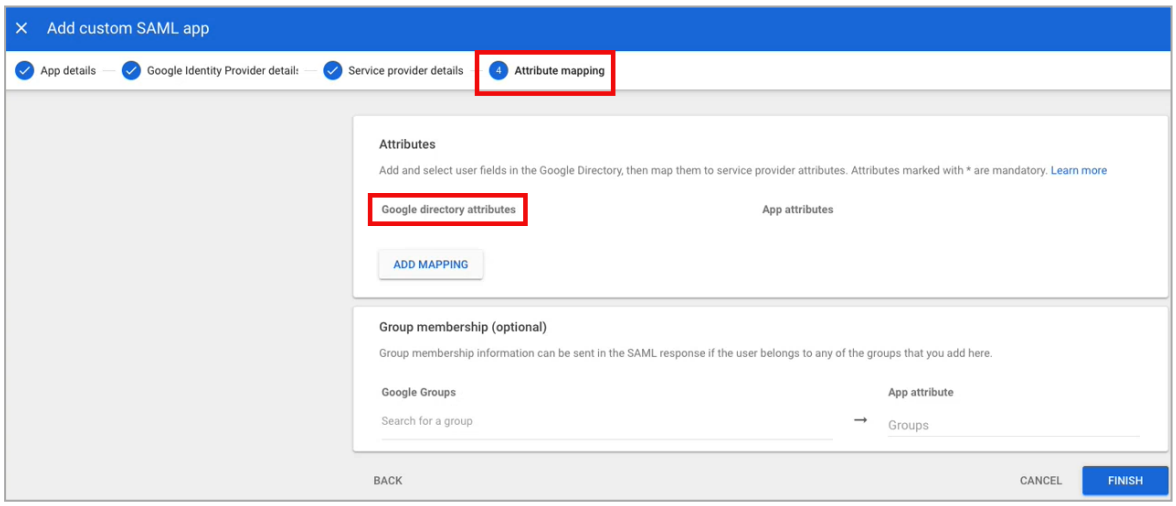
f. Click **Save**.

Important - Before you can test the connectivity between Google Workspace and Infinity Portal, you must complete all of the IdP integration steps in the Infinity Portal.

Configure the Attributes

In this step, you configure the attribute mapping and group membership in Google Workspace.

1. Go to Google Workspace > **Attribute mapping** > **Attributes**.

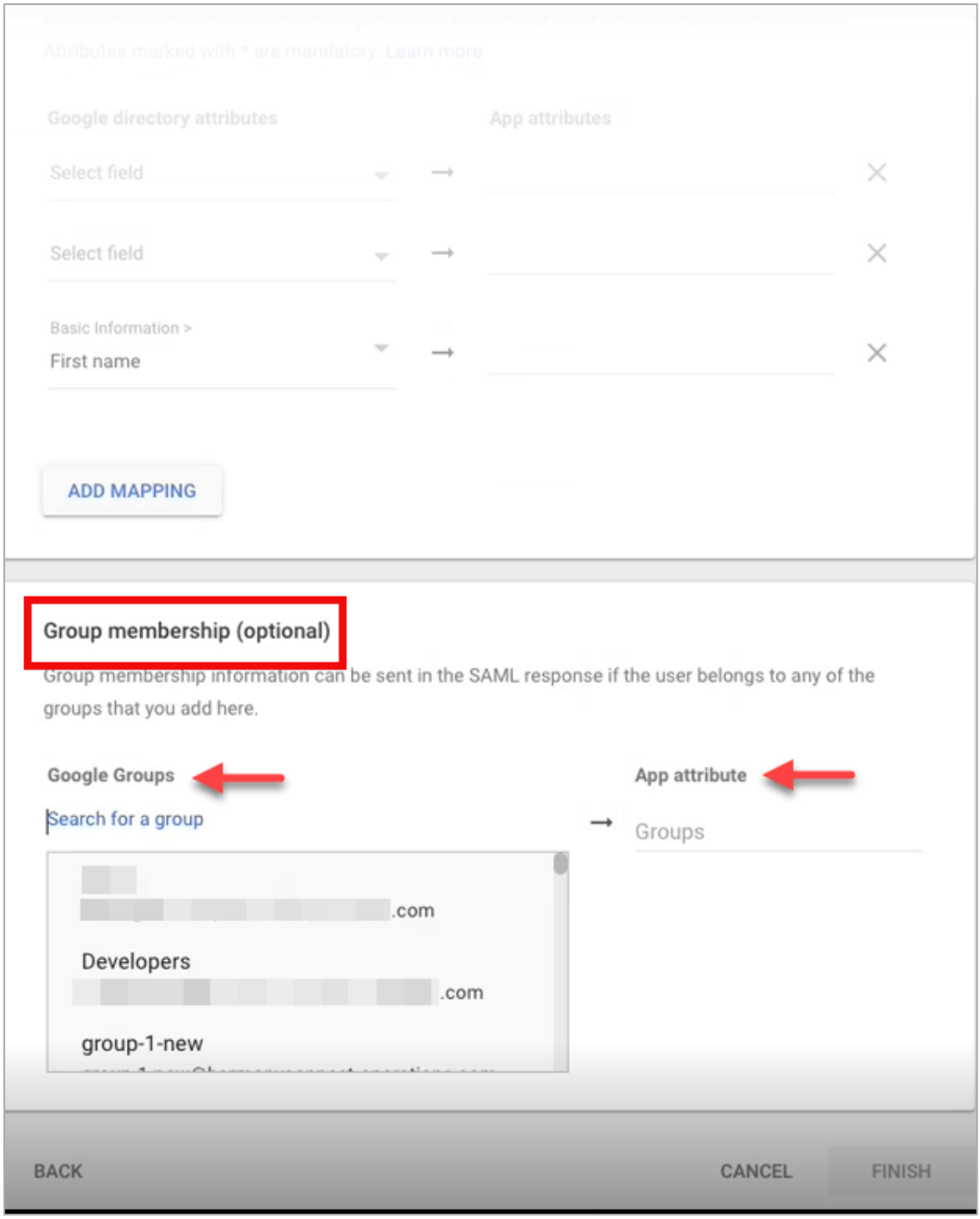


2. Below **Google directory attributes**, click **Add Mapping** to add an attribute field.

3. Enter these corresponding attributes from the Infinity Portal IdP Integration page.

Google Directory attributes	App attributes
Primary email	email
First name	firstName
Last name	lastName

4. In **Group membership**, enter these details:

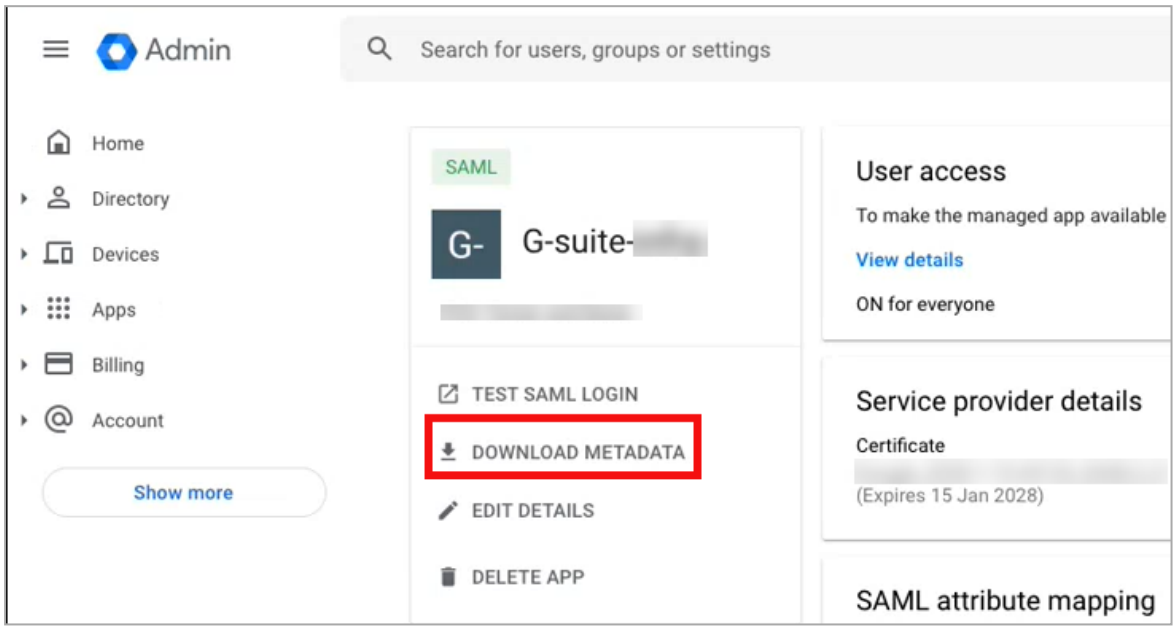


Google Groups	App attribute
Enter the group(s) name	groups

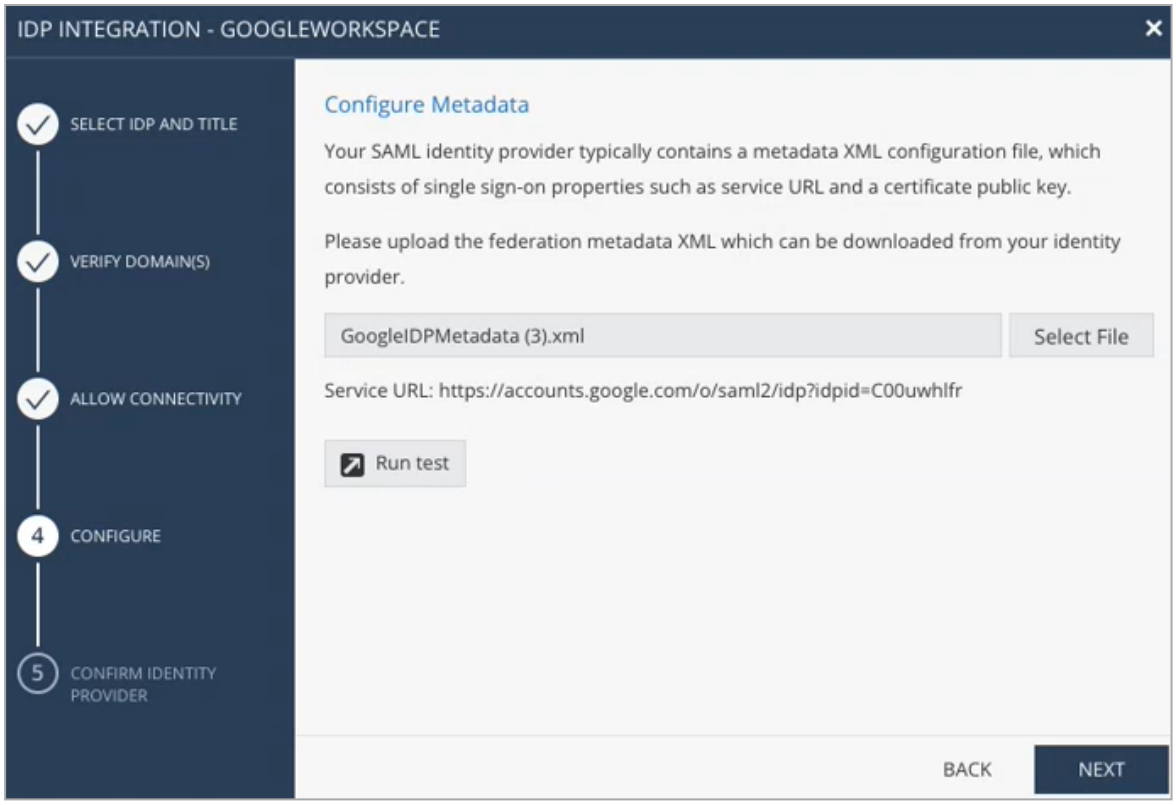
5. Click **Finish**.
6. On the Infinity Portal IdP Integration page, click **Next**.

Configure Metadata

1. If you did not already download the metadata file, then go to your Google Workspace account, go to **Apps** > **Web and mobile apps**, and open the applicable application.
2. In the application page that opens, click **Download Metadata**.

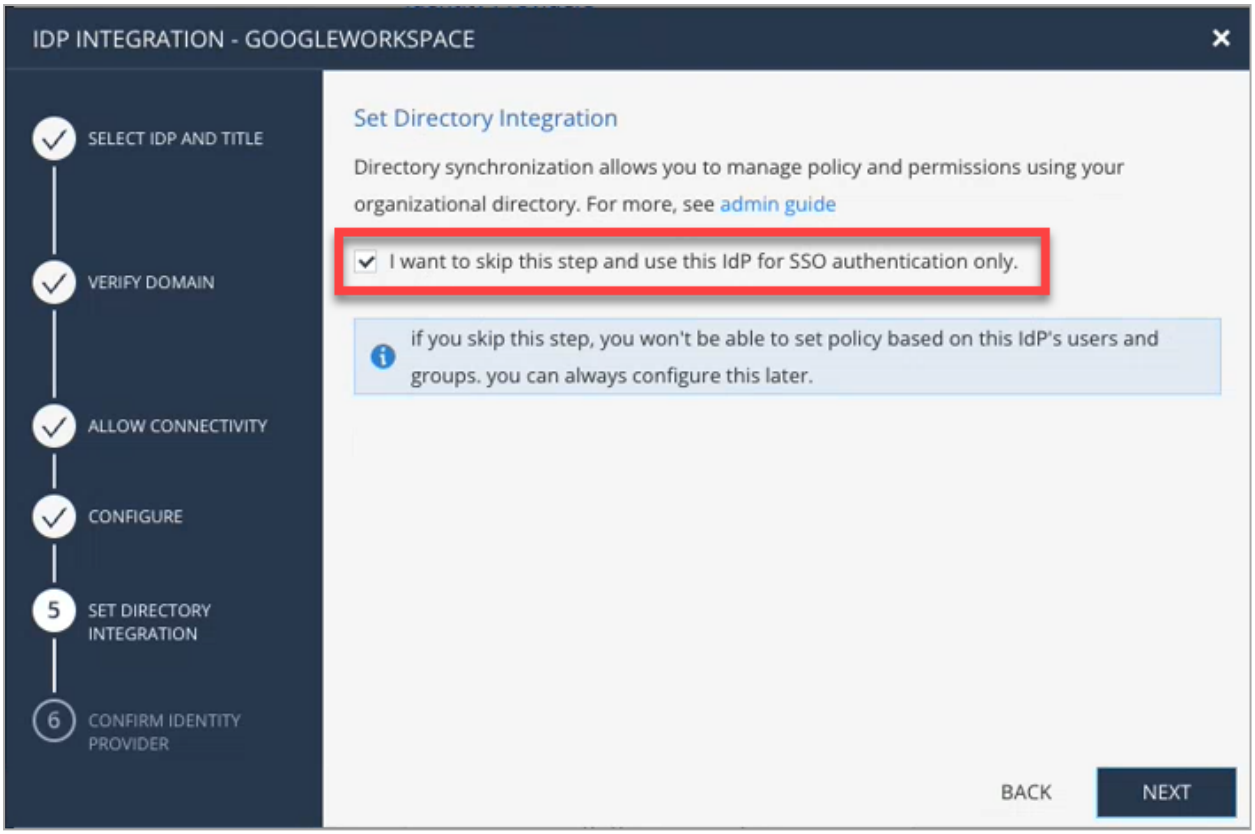


3. In the **Download metadata** window, click **Download Metadata**.
4. To exit the window, click **Close**.
5. On the Infinity Portal IdP Integration page, click **Select File** and upload the Google Workspace metadata file.



6. **Optional: Run test** - This test makes sure the SAML connection between the Infinity Portal and Google Workspace is configured correctly.
7. Click **Next**.

You can select to continue and configure **Set Directory Integration** (see *Set Directory Integration*). Or to finish select the checkbox **I want to skip this step and use this IdP for SSO authentication only** and then click **Next**.



Directory Integration

Directory Integration gets information about users and groups for the services you selected in the **Integration Type** step > **Service(s) Integration** section.

Directory Integration does **not** apply to **Users** and **User Groups** in the Infinity Portal.

Important - After you create a Directory Integration, you cannot change it. To create a different Directory Integration, you must create a new Identity Provider (IdP) Integration.

For Infinity Portal SSO authentication, this feature is optional. To use Google Workspace for SSO authentication only, select the checkbox **I want to skip this step and use this IdP for SSO authentication only**.

Directory Integration allows Check Point services to query for any change in Google Workspace users and groups. The Infinity Portal pulls **all** users and groups from Google Workspace.

Prerequisites

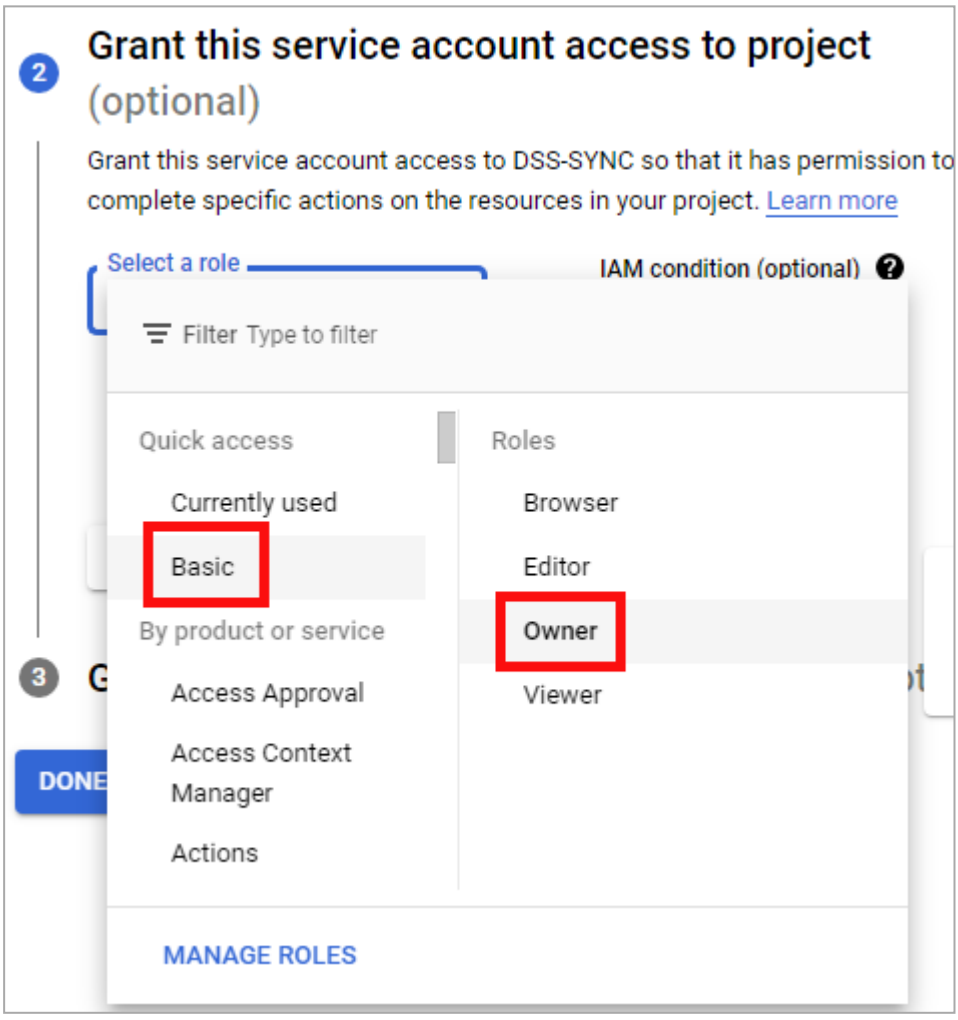
A Google Workspace with Super Administrator permissions.

Create a Google Cloud Project.

1. In the Google Cloud console, create a **New Project** and name it *dss-sync*.
2. From the menu, select **APIs and services** > **Library** and enable these APIs:
   - **Admin SDK API**
   - **Cloud Identity**

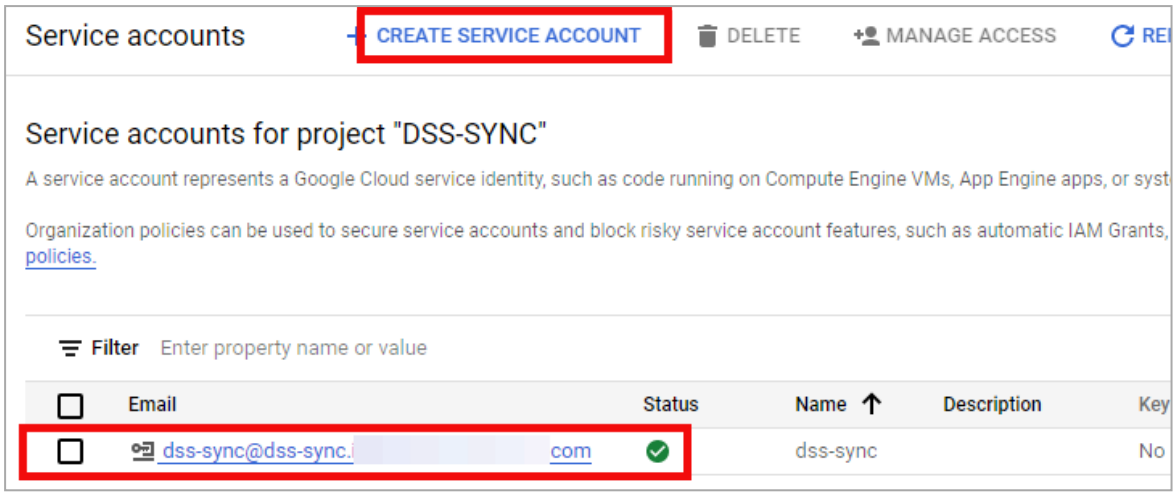
Create the Service Account

1. From the menu, select **IAM and admin** > **Service Accounts** > and select **Create Service Account**.
   a. In the **Service account details**, enter a service account name (such as *dss-sync*) and then click **Create and Continue**.
   b. Below **Grant this service account access to project**, for **Quick access** select **Basic**, and for **Roles** select **Owner**.

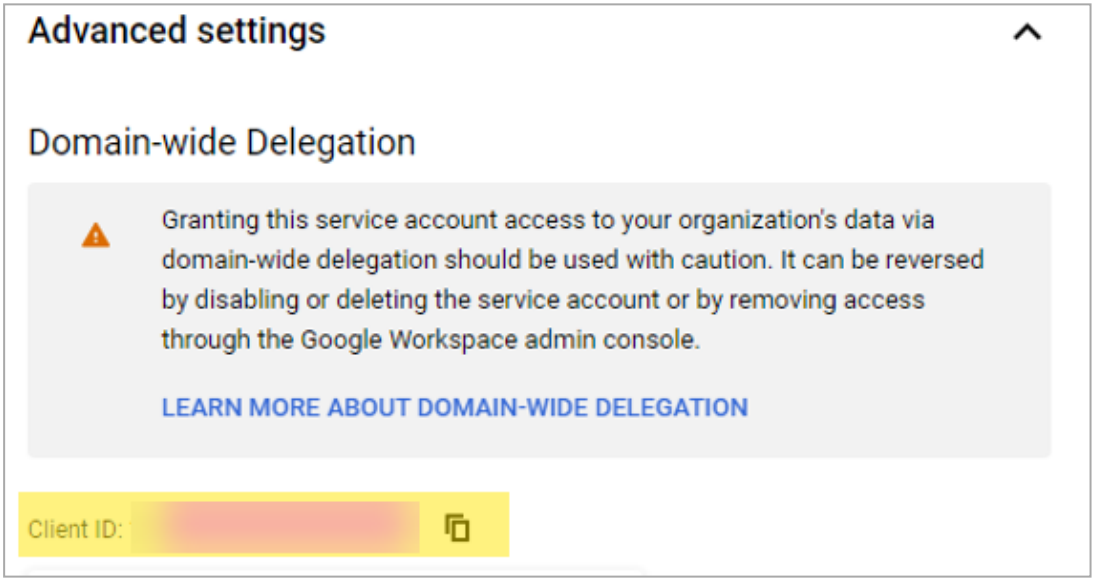


   c. Below **Grant users access to this service account**, click **Done**.

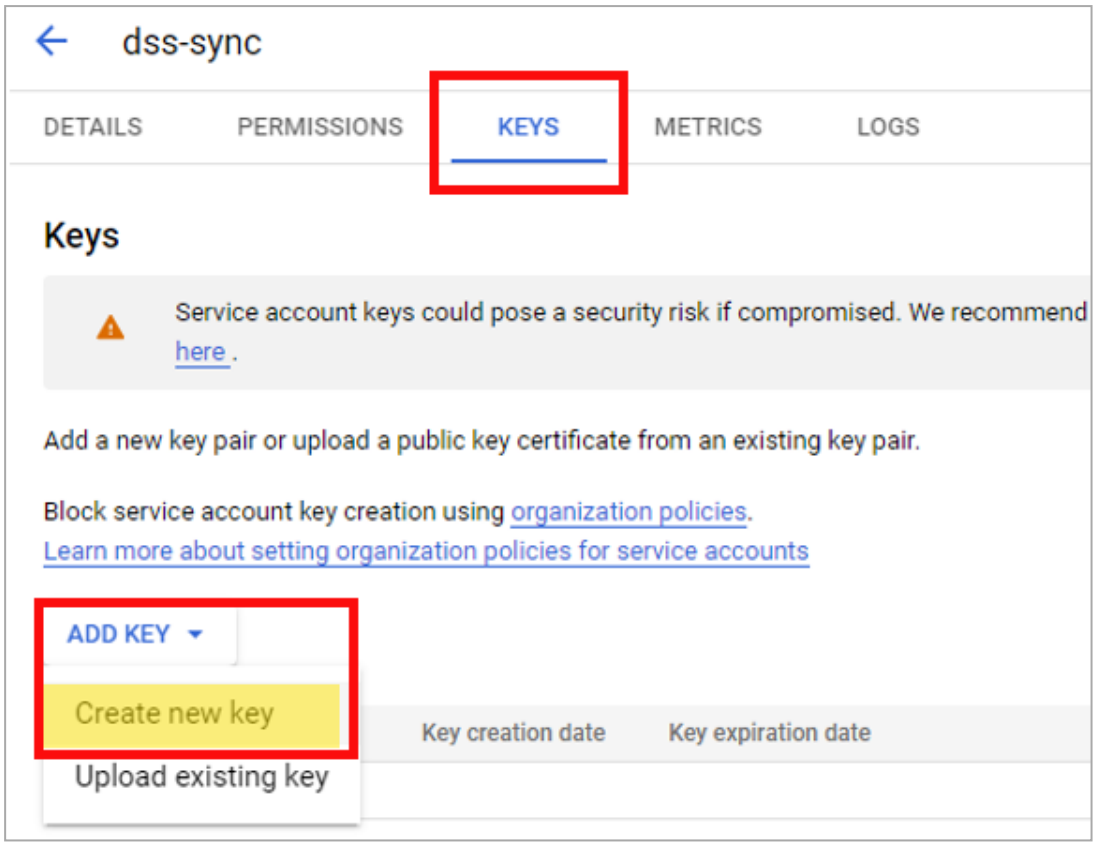
2. On the **Service accounts** page that opens, click the *dss-sync* project.



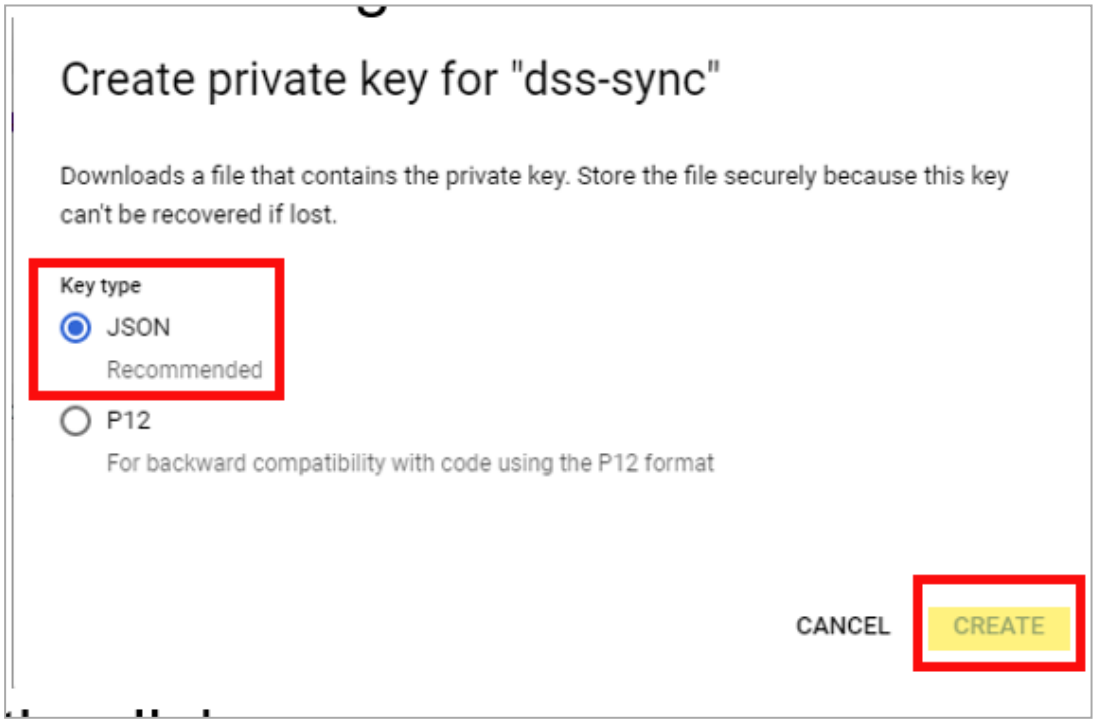
3. On the **Service details** page, click **Advanced settings**.
   a. Save the **Client ID**. Go to **Advanced settings** > **Domain wide delegation**.



b. From the menu, click **Keys** > **Add Key** > **Create a new key**.



c. For the **Key type**, select **JSON**.



d. Click **Create**. This downloads a JSON credential file. Save the file.

e. Close the window.

Configure Domain-Wide Access

1. Sign in to the Google Admin console with a super admin account.
2. Go to **Security** > **Access and data control** > **API controls**.
3. Below **Domain wide delegation**, click **Manage Domain Wide Delegation**.
4. Click Add new.
   a. Enter the Service Account's Client ID from "Create Service Account", step 3.
   b. Enter these scopes:

```
https://www.googleapis.com/auth/admin.directory.user.readonly,
https://www.googleapis.com/auth/admin.directory.group.readonly,
https://www.googleapis.com/auth/admin.directory.device.chromeos.readonly,
https://www.googleapis.com/auth/admin.directory.device.mobile.readonly,
https://www.googleapis.com/auth/admin.directory.device.chromebrowsers.readonly,
https://www.googleapis.com/auth/cloud-identity.devices.readonly
```

   c. Click **Authorize**.

Configure Directory Integration in the Infinity Portal

1. Below **Admin Email**, enter your Google Super Admin email.
2. For **Credentials**, upload the service account credentials from "Create Service Account", step 3.
3. Click **Test Connectivity**.

   Note - Allow about five minutes for Google to authorize the Domain Wide Delegation (a maximum of twenty-four hours).

Confirm Identity Provider Integration

Review the details of the SSO configuration and click **Submit**.

Important - Create a user group with the applicable roles and assign it to the related IdP group name or ID. This depends on the applicable identity provider before you log out. For more information, see *"User Groups" on page 54*.

Duo

Duo provides more security layers to your SSO authentication with Identity Providers (IdP). This document does not include the configuration of Duo with different IdPs. For information on how to configure Duo, see the Duo official documentation.

The instructions below imply that you have already configured Duo with your Identity Provider. To log in to the Infinity Portal with SSO integrated with Duo, you have to change the configuration.

To integrate your Identity Provider with Duo, follow these steps:

Configuring Duo

1. Configure Single Sign-On.
    a. For general instructions, see https://duo.com/docs/sso.
    b. If you configure a SAML Identity Provider, in the Configure the SAML Identity Provider section, copy the Assertion Consumer Service URL to use it in Step 2.
2. Configure an Application for a Generic SAML Service Provider, see https://duo.com/docs/sso-generic.
    a. In the Downloads section, find SAML Metadata and click the **Download XML** button. Keep the file to use in Step 3-d.
    b. In the Service Provider section, for Entity ID, enter the Infinity Portal entity ID from the Infinity Portal **Allow Connectivity** page in Step 3-c.
    c. For Assertion Consumer Service (ACS) URLs, enter the Reply and Sign-on URLs from the same page in the Infinity Portal.
    d. In the SAML Response section, below the Map attribute, set the attributes for users (preconfigured) and groups (custom) as it shows in the Infinity Portal **Allow Connectivity** page (if applicable). For the example of the custom claims configuration in Azure AD, see https://help.duo.com/s/article/7167?language=en_US.

Configuring your Identity Provider (applicable for SAML Identity Providers)

In the Application you created, edit the SAML settings. Enter the Assertion Consumer Service URL that you copied from Duo in Step 1-b for all SAML settings.

Configuring the Infinity Portal

1. In the Infinity Portal, navigate to  > **Identity & Access** and click the plus icon.
2. Enter a name for the **Integration Title** and select Duo.

3. Verify your domain.
4. In the **Allow Connectivity** step, copy the entity ID and URLs and enter them in Duo when you configure a Generic SAML Service Provider in Steps 1-b-ii and 1-b-iii.
5. In the **Configure Metadata** step, upload the Duo metadata XML file from Step 1-b-i.
6. Make sure the Identity Provider configurations are correct.

RADIUS

Before you start to configure SSO Authentication with RADIUS, make sure to log in with the same user or email that you used when you created the account. This allows you to create *a fallback user* that can always log in to the current account regardless of RADIUS servers availability.

The user that created the account is called **Primary Contact**. Infinity Portal does not authenticate this user through RADIUS SSO. This is to prevent the situation when the account becomes locked to all users because of RADIUS server's failure. In this case, the **Primary Contact** can always authenticate and log in with the password stored in the Infinity Portal database as a local user.

Note - If it is necessary to configure your firewall to allow Check Point Infinity Portal backend IP addresses, see the *"Firewall IP Allowlist" on page 47*.

Prerequisite:

- Permissions to your company's DNS server.

IdP and Title

1. In the Infinity Portal go to  > **Identity & Access** and click the plus icon.
2. Enter a name for the **Integration Title** and select **RADIUS**.
3. Click **Next**.

Integration Type

In this step, you can configure SSO authentication for Infinity Portal administrators and for end users of Check Point services.

Configuring Infinity Portal Integration for Infinity Portal Administrators

1. Select **Enable Administrators to log in to the portal using this IdP**.
2. Select this option:
   - **Login based on domain verification** - Infinity Portal Administrators can log in to this Infinity Portal account with SSO from the Identity Provider. Administrators log in through the Infinity Portal login page.
3. Do **one** of these actions:
   - Continue to the **Service(s) Integration** section.
   - Click **Next** / **Apply** to complete the Integration Type configuration.

Configuring Check Point Service(s) Integration for End Users

1. In the **Service(s) Integration** section, select **one** of these options:
   - **No Services** - There is no SSO authentication from the Identity Provider for end users of Check Point services. This is the default configuration.
   - **All Services** - End users can log in with SSO from the Identity Provider for all Check Point services that support SSO.
   - **Specific Service(s)** - A list of services opens. Select service(s) for which you want end users to log in with SSO from the Identity Provider.

     Available services:

     - **Harmony Connect**
     - **Quantum Gateways**
2. Click **Next** / **Apply** to complete the Integration Type configuration.

Verify Domain

Note - If for **Integration Type** you selected **Login with a unique URL**, the **Verify Domain** step is not necessary.

1. Connect to your DNS server.
2. Copy the DNS **Value** from the Infinity Portal IdP Integration wizard > **Verify Domain** step.
3. On your DNS server, enter the **Value** as a TXT record.
4. In the Infinity Portal > **Domain(s)** section, enter a public DNS domain server name and click the plus icon.

   Check Point makes a DNS query to verify your domain's configuration.
5. **Optional** - add more DNS domain servers.
6. Click **Next**.

   Note - Wait until the DNS record propagates and becomes resolvable.

Configure Servers

1. On the **Configure Servers** page, enter the details of your RADIUS server(s):
   - **Primary Host IP** - enter the server IP address.
   - **Primary Host Secret** - enter the server secret.

- **Port** - The default RADIUS ports are 1812 and 1813. To use a different port for RADIUS, contact *Check Point Support*.
- **Add Another Host** - optionally, add a secondary RADIUS server to provide a backup when the primary server is unreachable. These two servers use the same port. Enter the secondary server IP address and secret.
- **Connectivity Test** - optionally, check the RADIUS server connectivity:
  - Enter the user name.
  - Enter the user password.
  - Click **Test connectivity**.

  A message of the successful connection to the RADIUS server appears.

2. Click **Next**.

Confirm Identity Provider Integration

Review the details of the SSO configuration and click **Submit**.

Important - Create a user group with the applicable roles and assign it to the related IdP group name or ID. This depends on the applicable identity provider before you log out. For more information, see *"User Groups" on page 54*.

Licensing

Full use of Infinity Portal services is available with a software license, which is purchased through a Check Point User Center account.

- For detailed instructions about how to create a User Center account, see sk22716.
- For subscription information about all registered services, see *"Services & Contracts" on page 59*.

Glossary

A

ACS (Consumer) URL*
Assertion Consumer Service (ACS) URL - a combination of the Secure Token Server subsystem address, its port number for handling SAML messages, the SAML binding, and any necessary information that is specific for CIC or ICWS.

ACS URLs
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Active Directory
Microsoft® directory information service. Stores data about user, computer, and service identities for authentication and access. Acronym: AD.

ADFS
Active Directory Federation Services. A Microsoft software component for Windows Server OS to give users single sign-on access to an organization's systems and applications.

Assertion Consumer Service (ACS) URLs
Assertion Consumer Service (ACS) URL - a combination of the Secure Token Server subsystem address, its port number for handling SAML messages, the SAML binding, and any necessary information that is specific for CIC or ICWS.

Attribute Store
Directory or database to store user accounts and their attribute values, such as Active Directory.

AWS
Amazon® Web Services. Public cloud platform that offers global compute, storage, database, application and other cloud services.

C

CloudGuard Gateway
Check Point Virtual Security Gateway that protects dynamic virtual environments with policy enforcement. CloudGuard Gateway inspects traffic between Virtual Machines to enforce security, without changing the Virtual Network topology.

G

GCP
Google® Cloud Platform is a suite of products and services that includes hosting, cloud computing, database services and more.

I

Identity Provider
A system entity that creates, maintains, and manages identity information for principals and also provides authentication services to relying applications within a federation or distributed network. Acronym: IdP or IDP.

IPS
Intrusion Prevention System (IPS), also known as intrusion detection prevention system (IDPS), is a technology that keeps an eye on a network for any malicious activities attempting to exploit a known vulnerability.

L

LDAP
Lightweight Directory Access Protocol. It provides a mechanism used to connect to, search, and modify Internet directories (such as Microsoft Active Directory).

M

MFA
Multifactor Authentication - an electronic authentication method in which a user is granted access to a website or application only after successfully presenting two or more pieces of evidence (or factors) to an authentication mechanism.

Microsoft Azure
Collection of integrated cloud services that developers and IT professionals use to build, deploy, and manage applications through a global network of data centers managed by Microsoft®.

MSSP
Managed Security Service Provider (MSSP) - An managed security service provider (MSSP) provides outsourced monitoring and management of security devices and systems. Common services include managed firewall, intrusion detection, virtual private network, vulnerability scanning and anti-viral services.

R

RADIUS
Remote Authentication Dial-In User Service (RADIUS) is a networking protocol that provides centralized Authentication, Authorization, and Accounting (AAA or Triple A) management for users who connect and use a network service. RADIUS is a client/server protocol that runs in the application layer, and can use either TCP or UDP as transport.

S

SaaS
Software as a Service (SaaS) - An application delivered over the Internet by a provider. The application doesn't have to be purchased, installed, or run on users' computers. SaaS providers were previously referred to as ASPs (application service providers).

SAML
Security Assertion Markup Language. An XML-based, open-standard data format for exchanging authentication and authorization data between parties, in particular, between an identity provider and a service provider.

Service
A Check Point service offering that helps customers with deployments or technical services for Check Point products.

ShiftLeft
The ShiftLeft tool scans source code, containers and serverless functions, looking for vulnerabilities including those associated with the Log4j tool. This tool alerts the security and DevOps teams if any vulnerabilities are detected in the pre-build phase, ensuring that vulnerable code is not deployed.

SSO
Single Sign-On (SSO) - A session/user authentication process that permits a user to enter one name and password in order to access multiple applications.

T

ThreatCloud
A database of security intelligence that is dynamically updated using a worldwide network of threat sensors.

U

URL Filtering
A Check Point software blade that allows granular control over which web sites can be accessed by a given group of users, computers or networks.

User Center
The Check Point User Center offers Single Sign-On (SSO) management for all your Check Point needs: (1) Manage Accounts & Products (2) Get Support Offers (3) License Products (4) Open & manage your Service Requests (5) Access Downloads and product documentation (6) Search Technical Knowledge Center

Z

Zero Day Attack
An attack or threat that uses a previously unknown computer or software vulnerability.