



QUANTUM

20 August 2025

CPUSE

Administration Guide



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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.



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Check Point CPUSE Administration Guide



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Check Point is engaged in a continuous effort to improve its documentation.
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Revision History

Date	Description
20 August 2025	Updated: ▪ <i>"Updating the CPUSE Deployment Agent" on page 17</i> - added a warning for Scalable Platforms R81.20 and lower
29 August 2024	Updated: ▪ Improved the Table of Contents view in the HTML output ▪ <i>"Installing a CPUSE Software Package on Gaia" on page 22</i> - improved formatting
07 August 2024	First release of this document

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Introduction to CPUSE

Check Point Update Service Engine (CPUSE), also known as Deployment Agent (DA), is an advanced and intuitive mechanism for software deployment on Gaia Operating System, which supports deployments of single Hotfixes (HF), of Jumbo Hotfix Accumulators (JHF), and of Major Versions.

Gaia Software Updates offer a Smart, Fast, and Safe deployment solution:

Smart	▪ Discover only the applicable software updates ▪ Reboot only if required ▪ Auto authentication with Download Center ▪ View hierarchy of software updates ▪ E-mail notification for new updates
Fast	▪ Fast download ▪ Fast installation ▪ Short downtime
Safe	▪ Upgrade to the next Major Version is performed on a new disk partition and preserves Gaia OS configuration ▪ Automatic conflict validation ▪ Checksum validation of packages on the target server ▪ Self-test after installation ▪ Auto roll-back on failures

Refer to [sk92449](#):

- To download the latest build of the CPUSE Deployment Agent.
- To see the CPUSE Known Limitations.
- To see the CPUSE troubleshooting steps.

Working with CPUSE:

Action	Instructions
See all installed CPUSE packages	"Viewing Installed CPUSE Software Packages" on page 20
Download a CPUSE package	"Installing a CPUSE Software Package on Gaia" on page 22
Import a CPUSE package	"Installing a CPUSE Software Package on Gaia" on page 22
Verify a CPUSE package	"Installing a CPUSE Software Package on Gaia" on page 22
Install a CPUSE package	"Installing a CPUSE Software Package on Gaia" on page 22
Export a CPUSE package	"Exporting a CPUSE Software Package from Gaia" on page 43
Uninstall a CPUSE package	"Uninstalling a CPUSE Software Package from Gaia" on page 45
Delete a CPUSE package	"Deleting a CPUSE Software Package from Gaia" on page 48
Configure CPUSE settings	"CPUSE Update Settings" on page 50
Update the CPUSE Deployment Agent	"Updating the CPUSE Deployment Agent" on page 17
View CPUSE logs	"CPUSE Event Log" on page 54
Run CPUSE CLI commands	"CPUSE Syntax in Gaia Clish / Gaia gClish" on page 56
Change the CPUSE GUI version	"Changing the CPUSE GUI" on page 73

CPUSE Requirements

License and Contract File

Requirements

- Valid license must be installed on the target Gaia server.
- Valid Software Subscription or Technical Support Contract must be associated with the license.
- The Contract File must be installed on the target Gaia server.

Notes:

1. There is a 30-day grace period upon first installation / activation of the Deployment Agent, during which **no** license is needed at all.
2. Evaluation License is **not** enough to enable Gaia Software Updates.
Access to Check Point Download Server is available via subscription only.
A real valid support license is required.
An Evaluation License is not sufficient.

Connection to the Internet

Requirements

Gaia server should be connected to the Internet for these purposes:

- To perform online self-update of the CPUSE Deployment Agent.
- To obtain Gaia Software Updates from the Check Point cloud.

Important - We recommend to enable the corresponding Consent Flag to download the Contract File:

- In R81.20 and higher:
Enable the Consent Flag "**Download Security**" as described in [sk175504 - How to configure Check Point software to upload data to Check Point / download data from Check Point in versions R81.20 and higher](#)
- In R81.10 and lower:
Enable the Consent Flag "**Allow Download**" as described in [sk111080 - How to configure Check Point software to upload data to Check Point / download data from Check Point in versions R81.10 and lower](#)

For additional information, see [sk94508](#) > section "Blade Contracts".

CPUSE Communication with the Check Point Cloud

Requirements

To allow the CPUSE Deployment Agent to communicate with the Check Point cloud, follow the steps below in SmartConsole.

You must create an explicit allow-rule in these scenarios:

Item	Scenario 1	Scenario 2	Scenario 3
Scenario Description	Check Point Security Gateway running on Gaia OS, which must connect to Check Point cloud. The implied rule "Accept outgoing packets originating from Gateway" is disabled in SmartConsole > Menu > Global properties > on the FireWall page.	Perimeter Check Point Security Gateway that protects internal Check Point server running on Gaia OS, which must connect to Check Point cloud.	Perimeter <i>non</i> -Check Point Firewall that protects Check Point server running on Gaia OS, which must connect to Check Point cloud.
Which explicit allow-rule to configure?	Create an explicit Access Control rule for this Check Point Security Gateway (see the procedure below) to allow the communication between the CPUSE Deployment Agent on this Check Point Security Gateway and the Check Point cloud.	Create an explicit Access Control rule for the Perimeter Check Point Security Gateway (see the procedure below) to allow the communication between the CPUSE Deployment Agent on the internal Check Point Gaia server and the Check Point cloud.	Create an explicit Firewall rule (for reference, see procedure below) for this <i>non</i> -Check Point Firewall to allow the communication between the CPUSE Deployment Agent on the internal Check Point Gaia server and the Check Point cloud.
Traffic Source	Check Point Security Gateway	Internal Check Point Gaia server	Internal Check Point Gaia server

Item	Scenario 1	Scenario 2	Scenario 3
Traffic Destination	Check Point domains	Check Point domains	Check Point domains
Traffic Protocol / Ports	The required HTTP / HTTPS / DNS traffic	The required HTTP / HTTPS / DNS traffic	The required HTTP / HTTPS / DNS traffic
Where to install / apply the explicit allow-rule?	Check Point Security Gateway	Perimeter Check Point Security Gateway	Perimeter <i>non</i> -Check Point Firewall

Procedure for Check Point Security Gateway:

 **Note** - For a *non*-Check Point Firewall, you must create the equivalent allow-rule. See [sk83520](#).

1. Create these **Domain** objects for the required Check Point domains and for the AKAMAI domain (note the period character in the beginning of the FQDN):

- `.updates.checkpoint.com`
- `.updates.g01.checkpoint.com`
- `.gwevents.checkpoint.com`
- `.gwevents.us.checkpoint.com`
- `.deploy.static.akamaitechnologies.com`

For instructions, see the [Quantum Security Management Administration Guide](#) for your version.

2. Create this Access Control security rule for the involved Security Gateway (use predefined services):

 **Important** - Rules with Domain Objects should be located as low as possible in the rulebase.

For Scenario #1 - Check Point Security Gateway running on Gaia OS (and the implied rule "Accept outgoing packets originating from Gateway" is disabled)

Source	Destination	VPN	Services & Applications	Action	Install On
Check Point Security Gateway / Cluster	.updates.checkpoint.com .updates.g01.checkpoint.com .gwevents.checkpoint.com .gwevents.us.checkpoint.com .deploy.static.akamaitechnologies.com	Any	http https HTTP_and_HTTPS_proxy domain-udp	Accept	Check Point Security Gateway / Cluster

For Scenario #2 - Perimeter Check Point Security Gateway that protects internal Check Point server

Source	Destination	VPN	Services & Applications	Action	Install On
Internal Check Point Gaia Server	.updates.checkpoint.com .updates.g01.checkpoint.com .gwevents.checkpoint.com .gwevents.us.checkpoint.com .deploy.static.akamaitechnologies.com	Any	http https HTTP_and_HTTPS_proxy domain-udp	Accept	Perimeter Check Point Security Gateway / Cluster

3. Install the Access Control policy on the involved Security Gateway / Cluster object.

Update of the CPUSE Deployment Agent to the Latest Version

Requirements

- On an online Gaia server (that is connected to the Internet):
 - The CPUSE Deployment Agent **must** always be updated to the latest available version before being able to perform any action.
 - We recommend to leave the default CPUSE Deployment Agent setting **"Automatically update Deployment Agent (recommended)"** enabled.
See *"CPUSE Update Settings" on page 50*.
 - On an offline Gaia server (that is disconnected from the Internet), we strongly recommended to always update the CPUSE Deployment Agent manually to the latest available build. See [sk92449](#).
-  **Important** - Scalable Platforms (Maestro and Chassis) R81.20 and lower require a dedicated Deployment Agent package that is available in the relevant Home Page SK articles (Known Limitation MBS-2372).

Free Disk Space

Requirements

- To import a CPUSE package, the **/var/log/** partition on the Gaia server must have enough **free** disk space - at least **twice** the size of the package you want to import.

To see the amount of available disk space in **/var/log/** partition, run this command in the Expert mode:

```
df -h | grep -E "Avail|/var/log"
```

Example output:

```
[Expert@Gaia:0]# df -h | grep -E "Avail|/var/log"
Filesystem                Size      Used Avail Use% Mounted on
/var/log                   11G      286M   9.9G   3%
```

- To upgrade to a higher Major Version, or to perform Clean Installation using CPUSE, server must have enough **unallocated (unpartitioned)** disk space - at least as the size of the **root** partition.

1. Examine the size of the "root" partition:

```
df -h | grep -E "Avail|\\/$"
```

Example output:

```
[Expert@Gaia:0]# df -h | grep -E "Avail|\\/$"
Filesystem                Size  Used Avail Use%
Mounted on
                          17G   9.1G   6.6G   59% /
[Expert@Gaia:0]#
```

2. Examine the amount of unallocated (unpartitioned) disk space:

```
pvs
```

Example output:

```
[Expert@Gaia:0]# pvs
PV          VG          Fmt  Attr  PSize  PFree
/dev/sda3   vg_splat  lvm2  a-    57.81G 29.81G
[Expert@Gaia]#
```

Management Data Plane Separation (MDPS)

Requirements

When you enable MDPS ([sk138672](#)) on a Security Gateway / Cluster Members / Security Group, the CPUSE service runs in the **Management Plane**.

Therefore, you must run all CPUSE commands only in the **Management Plane**.

- The Gaia Clish / Gaia gClish commands are described in *"CPUSE Syntax in Gaia Clish / Gaia gClish" on page 56*.

To go to the Management Plane in Gaia Clish / Gaia gClish, run:

```
set mdps environment mplane
```

- The Expert mode commands are "DAClient" and "da_cli".

To go to the Management Plane in the Expert mode, run:

```
mplane
```

Updating the CPUSE Deployment Agent

Warnings

- It is **not** supported to install a lower build of the CPUSE Deployment Agent over the current build (downgrading the CPUSE Deployment Agent is not supported).
- The procedures below do **not** apply to Scalable Platforms R81.20 and lower. For these versions, you must refer to the corresponding Administration Guides to the instructions to upgrade the CPUSE Deployment Agent on the Security Group:
 - [R81.20 Quantum Maestro Administration Guide](#) > Chapter "Upgrading Maestro to R81.20".
 - [R81.20 Quantum Scalable Chassis Administration Guide](#) > Chapter "Upgrading Scalable Chassis to R81.20".
 - [R81.10 Quantum Maestro Administration Guide](#) > Chapter "Upgrading Maestro to R81.10".
 - [R81.10 Quantum Scalable Chassis Administration Guide](#) > Chapter "Upgrading Scalable Chassis to R81.10".

Automatic Update of the CPUSE Deployment Agent

If a Gaia server is connected to the Internet, it automatically updates the CPUSE Deployment Agent to the latest available build (unless you disabled this default behavior in CPUSE settings - see "[CPUSE Update Settings](#)" on page 50).

If a Gaia server is **not** connected to the Internet, you can always manually install the latest available build of the CPUSE Deployment Agent.

-  **Best Practice** - Always upgrade the CPUSE Deployment Agent to the latest available build.

Manual Update of the CPUSE Deployment Agent in Gaia Portal

Procedure

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <code>https://<IP address of Gaia Management Interface></code> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates .
3	In the top left, click Update settings .
4	In the section Deployment Agent , see the current build of the CPUSE Deployment Agent.
5	Download the latest CPUSE Deployment Agent package from sk92449 to your computer.
6	In the section Deployment Agent , click Update Deployment Agent .
7	Click Browse for a file .
8	Select the CPUSE Deployment Agent TGZ package (<code>DeploymentAgent_<build>.tgz</code>) on your computer.
9	Click Install DA .
10	Follow the instructions on the screen.

Manual Update of the CPUSE Deployment Agent in Gaia Clish / Gaia gClish

Procedure

Step	Instructions
1	Connect to the command line on the Gaia server.  Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
2	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
3	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
4	Get the current build of the CPUSE Deployment Agent: <pre>show installer status build</pre>
5	Download the latest CPUSE Deployment Agent package from sk92449 to your computer.
6	Transfer the latest CPUSE Deployment Agent package (DeploymentAgent_<build>.tgz) from your computer to the Gaia server to some directory (for example, /var/log/).
7	Install the CPUSE Deployment Agent package: <pre>installer agent install /<Full Path>/DeploymentAgent_<build>.tgz</pre>
8	Follow the instructions on the screen.

Viewing Installed CPUSE Software Packages

You can easily see all **installed** CPUSE packages in Gaia Portal or in Gaia Clish / Gaia gClish.

Procedure in Gaia Portal to see all installed CPUSE packages

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <pre>https://<IP address of Gaia Management Interface></pre> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>). i Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Current Version .

In the applicable row, you can click the 3-dot menu  and click the applicable option - **Uninstall** or **Export package**.

Procedure in Gaia Clish / Gaia gClish to see all installed CPUSE packages

i Note - For the complete Gaia Clish syntax, see "[CPUSE Syntax in Gaia Clish / Gaia gClish](#)" on page 56.

Step	Instructions
1	Connect to the command line on the Gaia server. i Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
2	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
3	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>

Step	Instructions
4	See all the installed CPUSE packages: <code>show installer packages installed</code> <code>show installer cpinfo</code>

Installing a CPUSE Software Package on Gaia

Part 1 of 3 - Download / Import the CPUSE Software Package

If the required package appears in Gaia Portal / Gaia Clish, you can **download** it.

If you do **not** see the required package in Gaia Portal / Gaia Clish, you can **download and import** it manually.

You can download / import a CPUSE package in Gaia Portal or in Gaia Clish / Gaia gClish.

Follow one of the available procedures below based on the CPUSE package location:

Where to Perform the Procedure?	Package Location	Procedure
In Gaia Portal	Check Point Cloud	Download only Import
	Local Directory	Import
In Gaia Clish / Gaia gClish	Check Point Cloud	Download only Import
	Local Directory	Import
	FTP Server	Import

Procedure in Gaia Portal to download a CPUSE package from the Check Point Cloud

This procedure applies only if the Gaia server is connected to the Internet, and you see the required package in Gaia Portal.

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <code>https://<IP address of Gaia Management Interface></code> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates .
3	Expand the applicable section: ▪ Major Versions ▪ Jumbo Hotfix Accumulator Takes ▪ Hotfix Packages
4	 Best Practice - Before you download an online CPUSE package, make sure it is fully compatible with your Gaia version. If the CPUSE package is not compatible, this verification saves the download time and shows if some prerequisite package is missing. In the applicable row, click Verify. While the CPUSE Deployment Agent performs this action, you can click other pages in Gaia Portal. When you return to this page and section, the applicable row shows the verification verdict.
5	In the applicable row, click Download (if this package is compatible). You can click Pause (survives reboot) and Resume.

Procedure in Gaia Clish / Gaia gClish to download a CPUSE package from the Check Point Cloud

This procedure applies only if the Gaia server is connected to the Internet, and you see the required package in Gaia Clish / Gaia gClish.

 **Note** - For the complete Gaia Clish syntax, see ["CPUSE Syntax in Gaia Clish / Gaia gClish" on page 56](#).

Step	Instructions
1	Connect to the command line on the Gaia server.  Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
2	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
3	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
4	 Best Practice - Before you download an online CPUSE package, make sure it is fully compatible with your Gaia version. If the CPUSE package is not compatible, this verification saves the download time and shows if some prerequisite package is missing. Verify the required CPUSE package: <pre>installer verify PRESS THE TAB KEY TO SEE ALL PACKAGES</pre> <pre>installer verify <ID> [not-interactive]</pre> "<ID>" is the package number in the list.
5	Download the required CPUSE package (if this package is compatible): <pre>installer download PRESS THE TAB KEY TO SEE ALL PACKAGES</pre> <pre>installer download <ID> [not-interactive] [pause] [resume [not-interactive]]</pre> "<ID>" is the package number in the list. You can pause (survives reboot) and resume the download.

Step	Instructions
6	Examine the list of the available CPUSE packages: <pre>show installer packages all</pre> A new row appears in the corresponding section: ▪ Major Versions ▪ Gaia Fast Deployment Images ▪ Jumbo Hotfix Accumulator Takes ▪ Hotfix Packages

Procedure in Gaia Portal to import a CPUSE package from the Check Point Cloud

This procedure applies only if the Gaia server is connected to the Internet, and you do **not** see the required package in Gaia Portal.

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <pre>https://<IP address of Gaia Management Interface></pre> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates .
3	In the top left, click Add package and click Find package view in cloud .
4	In the Add a package from cloud window: - Paste the CPUSE Identifier string (case-sensitive). The "<code><CPUSE Identifier></code>" string is provided by Check Point Support, in SK articles, or in Administration Guides. - Click the magnifying glass icon to start the search. - When the package is found, this window shows the package size and the release date. If such CPUSE package does not exist, if there is a mistake in the pasted CPUSE Identifier, or if this CPUSE package is not compatible with your Gaia version, then this window shows: <code>No package was found</code> <code>Enter full and correct package name</code> - Click Add Package to add it to the list of available packages. This action only imports the package metadata (information about the package).
5	A new row appears in the corresponding section: ▪ Major Versions ▪ Jumbo Hotfix Accumulator Takes ▪ Hotfix Packages

Procedure in Gaia Clish / Gaia gClish to import a CPUSE package from the Check Point Cloud

This procedure applies only if the Gaia server is connected to the Internet, and you do **not** see the required package in Gaia Clish / Gaia gClish.

 **Note** - For the complete Gaia Clish syntax, see "[CPUSE Syntax in Gaia Clish / Gaia gClish](#)" on page 56.

Step	Instructions
1	Connect to the command line on the Gaia server.  Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
2	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
3	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
4	Import the required CPUSE package: <pre>installer import cloud CPUSE Identifier</pre> The "<CPUSE Identifier>" string is provided by Check Point Support, in SK articles, or in Administration Guides. If such CPUSE package does not exist, if there is a mistake in the pasted CPUSE Identifier, or if this CPUSE package is not compatible with your Gaia version, then this window shows: <pre>No package was found Enter full and correct package name</pre>
5	Examine the list of the available CPUSE packages: <pre>show installer packages all</pre> A new row appears in the corresponding section: ▪ Major Versions ▪ Gaia Fast Deployment Images ▪ Jumbo Hotfix Accumulator Takes ▪ Hotfix Packages

Procedure in Gaia Portal to import an Offline CPUSE package - from your computer

This procedure applies only if you do **not** see the required package in Gaia Portal.

You can perform this procedure on a Gaia server regardless its connection to the Internet.

Step	Instructions
1	Download the required Offline CPUSE package to your computer, from which you connect to Gaia Portal. These packages are provided in SK articles, by Check Point Support, or in Administration Guides.  Important - Make sure the hash checksum of the downloaded package is the same as appears on its download page.
2	With a web browser, connect to Gaia Portal at: <code>https://<IP address of Gaia Management Interface></code> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
3	In the left navigation tree, click Software Updates > Available Updates .
4	In the top left, click Add package > Upload package from local .
5	In the Import package window: - Click Browse for a file. - Select the CPUSE package and click Open. - Read the package name to make sure and click Import.
6	A new row appears in the corresponding section: ▪ Major Versions ▪ Jumbo Hotfix Accumulator Takes ▪ Hotfix Packages

Procedure in Gaia Clish / Gaia gClish to import an Offline CPUSE package - from the Gaia local directory

This procedure applies only if you do **not** see the required package in Gaia Clish / Gaia gClish.

You can perform this procedure on a Gaia server regardless its connection to the Internet.

 **Note** - For the complete Gaia Clish syntax, see ["CPUSE Syntax in Gaia Clish / Gaia gClish" on page 56](#).

Step	Instructions
1	Download the required Offline CPUSE package to your computer, from which you connect to the Gaia server. These packages are provided in SK articles, by Check Point Support, or in Administration Guides.  Important - Make sure the hash checksum of the downloaded package is the same as appears on its download page.
2	Transfer the Offline CPUSE package from your computer to the Gaia server to some directory (for example, <code>/var/log/</code>).  Note - See sk42178 - How to connect with WinSCP to Gaia OS.
3	Connect to the command line on the Gaia server.  Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
4	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
5	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
6	Import the required CPUSE package from the local directory: <pre>installer import local <Full Local Path> [not-interactive]</pre> "<Full Local Path>" is the absolute path that includes the file name (for example, <code>/var/log/Hotfix_Package.tgz</code>).

Step	Instructions
7	Examine the list of the available CPUSE packages: <pre>show installer packages all</pre> A new row appears in the corresponding section: ▪ Major Versions ▪ Gaia Fast Deployment Images ▪ Jumbo Hotfix Accumulator Takes ▪ Hotfix Packages

Procedure in Gaia Clish / Gaia gClish to import an Offline CPUSE package - from an FTP server

This procedure applies only if you do **not** see the required package in Gaia Clish / Gaia gClish.

You can perform this procedure on a Gaia server regardless its connection to the Internet.

 **Note** - For the complete Gaia Clish syntax, see "[CPUSE Syntax in Gaia Clish / Gaia gClish](#)" on page 56.

Step	Instructions
1	Download the required Offline CPUSE package to your computer. These packages are provided in SK articles, by Check Point Support, or in Administration Guides.  Important - Make sure the hash checksum of the downloaded package is the same as appears on its download page.
2	Transfer the Offline CPUSE package from your computer to your FTP server.  Important - Make sure the hash checksum of the uploaded package is the same as appears on its download page.
3	Connect to the command line on the Gaia server.  Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
4	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
5	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
6	Import the required CPUSE package from the FTP server: <pre>installer import ftp <FTP IPv4 address> path <FTP Path> username <FTP Username> [password <FTP Password>] [not- interactive]</pre> ▪ "<FTP Path>" is the relative path on the FTP server that includes the file name (for example, <code>Packages/Hotfix_Package.tgz</code>). ▪ You can specify the FTP password as part of the syntax.

Step	Instructions
7	Examine the list of the available CPUSE packages: <pre>show installer packages all</pre> A new row appears in the corresponding section: ▪ Major Versions ▪ Gaia Fast Deployment Images ▪ Jumbo Hotfix Accumulator Takes ▪ Hotfix Packages

Part 2 of 3 - Verify the CPUSE Software Package

-  **Best Practice** - Before you start the download or installation of a CPUSE package that appears in Gaia Portal or in Gaia Clish / Gaia gClish, make sure this CPUSE package is fully compatible with your Gaia Operating System.
- If the CPUSE package is not compatible, this verification saves the download time and shows if some prerequisite package is missing.
- If you start the installation of a CPUSE package that is not compatible, the installation fails with the corresponding message.

You can verify a CPUSE package in Gaia Portal or in Gaia Clish / Gaia gClish.

Follow one of the available procedures below.

Procedure in Gaia Portal to verify a CPUSE package

-  **Important** - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <code>https://<IP address of Gaia Management Interface></code> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates .
3	Expand the applicable section: ▪ Major Versions ▪ Jumbo Hotfix Accumulator Takes ▪ Hotfix Packages

Step	Instructions
4	Use the applicable option: ■ In the section Major Versions: • To verify if the CPUSE package is suitable for an upgrade: In the applicable row, click the Verify button. This action uses the current Gaia server role - Security Gateway, Security Management Server, or Multi-Domain Security Management Server.  Note - Support for different Gaia server roles in CPUSE packages is on the roadmap. • To verify if the CPUSE package is suitable for a clean install: In the applicable row, click the 3-dot menu  > click Verify clean install > click the desired Gaia server role: ◦ As Security Gateway Examines if this CPUSE package is suitable for a clean install as a Security Gateway ◦ As Security Management Examines if this CPUSE package is suitable for a clean install as a Security Management Server ◦ As Multi-Domain Server Examines if this CPUSE package is suitable for a clean install as a Multi-Domain Security Management Server  Note - Support for different Gaia server roles in CPUSE packages is on the roadmap. ■ In the section Jumbo Hotfix Accumulator Takes: In the applicable row, click the Verify button. ■ In the section Hotfix Packages: In the applicable row, click the Verify button. While the CPUSE Deployment Agent performs this action, you can click other pages in Gaia Portal. When you return to this page and section, the applicable row shows the verification verdict.

Procedure in Gaia Clish / Gaia gClish to verify a CPUSE package

 **Note** - For the complete Gaia Clish syntax, see "[CPUSE Syntax in Gaia Clish / Gaia gClish](#)" on page 56.

Step	Instructions
1	Connect to the command line on the Gaia server.  Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
2	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
3	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
4	Verify the required CPUSE package: <pre>installer verify PRESS THE TAB KEY TO SEE ALL PACKAGES</pre> <pre>installer verify <ID> [not-interactive]</pre> "<ID>" is the package number in the list.

Part 3 of 3 - Install the CPUSE Software Package

 **Important** - Before you install a CPUSE package on a Cluster or Scalable Platform, make sure to read the corresponding Administration Guide.

Installation of any software package on Clusters and Scalable Platforms is considered an **upgrade**.

Clusters and Scalable Platforms support several upgrade methods that have a different affect on your current connections.

 Best Practices:

1. Before you install a CPUSE package, make sure it is fully compatible with your Gaia version. See ["Part 2 of 3 - Verify the CPUSE Software Package" on page 33](#).
2. Before you perform an upgrade, read the [Installation and Upgrade Guide](#) for your version - the chapter for the product on your Gaia server.
3. Before you perform an upgrade, back up all files, in which you made manual changes.

After an upgrade, make the required manual changes again in the applicable files.

Do **not** overwrite the files with their backup copies.

The content of the files may change between the major versions and Jumbo Hotfix Accumulator Takes.

You can install a CPUSE package in Gaia Portal or in Gaia Clish / Gaia gClish.

Follow one of the available procedures below based on the CPUSE package type:

Where to Perform the Procedure?	Package Type	Procedure
In Gaia Portal	Higher Major Version	Clean Install Upgrade
	Jumbo Hotfix Accumulator, Hotfix	Install
In Gaia Clish / Gaia gClish	Higher Major Version	Clean Install Upgrade
	Jumbo Hotfix Accumulator, Hotfix	Install

Procedure in Gaia Portal to install a CPUSE package - a Clean Install of a higher Major Version

This procedure does **not** keep your settings or changes in files.

This procedure:

1. Creates a new disk partition.
2. Performs a Clean Install of the selected major version.
3. Reboots the Gaia server.
4. Boots from the new disk partition with the new major version.
5. Deletes the disk partition with the previous major version.

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <code>https://<IP address of Gaia Management Interface></code> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates .
3	Expand the section Major Versions .
4	In the applicable row, click the 3-dot menu  and click Clean install .

Procedure in Gaia Clish / Gaia gClish to install a CPUSE package - a Clean Install of a higher Major Version

 **Note** - For the complete Gaia Clish syntax, see ["CPUSE Syntax in Gaia Clish / Gaia gClish" on page 56](#).

This procedure does **not** keep your settings or changes in files.

This procedure:

1. Creates a new disk partition.
2. Performs a Clean Install of the selected major version.
3. Reboots the Gaia server.
4. Boots from the new disk partition with the new major version.
5. Deletes the disk partition with the previous major version.

Step	Instructions
1	Connect to the command line on the Gaia server.  Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
2	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
3	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
4	Install the required CPUSE package (after you download or import it): <pre>installer clean-install PRESS THE TAB KEY TO SEE ALL PACKAGES</pre> <pre>installer clean-install <ID> [role <Server Role>] [not-interactive]</pre> ■ "<ID>" is the package number in the list. ■ The optional parameter "role" specifies how to configure this Gaia server after the package installation - as a Security Gateway, a Management Server, and so on. Press the Tab key to see the available options that the specified software package supports.

Procedure in Gaia Portal to install a CPUSE package - an Upgrade to a higher Major Version

This procedure upgrades the current major version to the selected higher major version.

This procedure **keeps** your settings, **except** for Check Point configuration files.

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <code>https://<IP address of Gaia Management Interface></code> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates .
3	Expand the section Major Versions .
4	In the applicable row, click Upgrade .

Procedure in Gaia Clish / Gaia gClish to install a CPUSE package - an Upgrade to a higher Major Version

 **Note** - For the complete Gaia Clish syntax, see "[CPUSE Syntax in Gaia Clish / Gaia gClish](#)" on page 56.

This procedure upgrades the current major version to the selected higher major version.

This procedure **keeps** your settings, **except** for Check Point configuration files.

Step	Instructions
1	Connect to the command line on the Gaia server.  Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
2	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
3	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
4	Install the required CPUSE package (after you download or import it): <pre>installer upgrade PRESS THE TAB KEY TO SEE ALL PACKAGES</pre> <pre>installer upgrade <ID> [not-interactive]</pre> "<ID>" is the package number in the list.

Procedure in Gaia Portal to install a CPUSE package - a Jumbo Hotfix Accumulator or a Hotfix

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <code>https://<IP address of Gaia Management Interface></code> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates .
3	Expand the applicable section: ▪ Jumbo Hotfix Accumulator Takes ▪ Hotfix Packages
4	In the applicable row, click Install .

Procedure in Gaia Clish / Gaia gClish to install a CPUSE package - a Jumbo Hotfix Accumulator or a Hotfix

 **Note** - For the complete Gaia Clish syntax, see "[CPUSE Syntax in Gaia Clish / Gaia gClish](#)" on page 56.

Step	Instructions
1	Connect to the command line on the Gaia server.  Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
2	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
3	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
4	- Install the required CPUSE package if you already downloaded / imported it: <pre>installer install PRESS THE TAB KEY TO SEE ALL PACKAGES</pre> <pre>installer install <ID> [not-interactive]</pre> - Download and install the required CPUSE package from the Check Point cloud, if you did not download / import it yet: <pre>installer download-and-install PRESS THE TAB KEY TO SEE ALL PACKAGES</pre> <pre>installer download-and-install <ID> [not-interactive]</pre> "<ID>" is the package number in the list.

Exporting a CPUSE Software Package from Gaia

After you download, import, or install a CPUSE package, you can export it from the CPUSE package repository.

Use case 1:

1. Download or import the required CPUSE package on a Gaia server that is connected to the Internet.
2. Export this CPUSE package.
3. Import the exported CPUSE package on a different Gaia server that is **not** connected to the Internet.

Use case 2:

1. Download or import the required CPUSE package on a Gaia server that is connected to the Internet.
2. Export this CPUSE package to keep it in your own package repository.

You can export a CPUSE package only in Gaia Portal.

Procedure in Gaia Portal to export a CPUSE package

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <pre>https://<IP address of Gaia Management Interface></pre> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates .
3	Expand the applicable section: ▪ Major Versions ▪ Jumbo Hotfix Accumulator Takes ▪ Hotfix Packages
4	In the applicable row, click the 3-dot menu  and click Export package .

Step	Instructions
5	The web browser saves the TAR package.

Uninstalling a CPUSE Software Package from Gaia

After you install a CPUSE package, you can uninstall it.

Important:

- You cannot uninstall a Major Version package.
- You cannot uninstall a Gaia Fast Deployment package.
- You cannot uninstall a Hotfix package, if you installed another Hotfix package on top of it (that requires the first Hotfix package).
For example, if you installed a Jumbo Hotfix Accumulator package, and then installed a Hotfix that requires this Jumbo Hotfix Accumulator package, then you cannot uninstall this Jumbo Hotfix Accumulator package (unless first, you uninstall the Hotfix package).

Best Practice - After you uninstall a CPUSE package, delete it from the CPUSE package repository.

See ["Deleting a CPUSE Software Package from Gaia" on page 48](#).

You can uninstall a CPUSE package in Gaia Portal or in Gaia Clish / Gaia gClish.

Procedure in Gaia Portal to uninstall a CPUSE package

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <code>https://<IP address of Gaia Management Interface></code> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates .
3	Expand the applicable section: ▪ Major Versions ▪ Jumbo Hotfix Accumulator Takes ▪ Hotfix Packages
4	In the applicable row, click the 3-dot menu  and click Uninstall. ▪ For a Jumbo Hotfix Accumulator package, this action uninstalls only the last installed Take. ▪ For a Hotfix package, this action uninstalls all previously installed Builds / Takes (removes all files).
5	Click Yes, revert to confirm.

Procedure in Gaia Clish / Gaia gClish to uninstall a CPUSE package

Note - For the complete Gaia Clish syntax, see "[CPUSE Syntax in Gaia Clish / Gaia gClish](#)" on page 56.

Step	Instructions
1	Connect to the command line on the Gaia server. Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
2	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
3	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
4	Uninstall the required CPUSE package: <pre>installer uninstall PRESS THE TAB KEY TO SEE ALL PACKAGES</pre> <pre>installer uninstall <ID> [completely] [last-take] [not-interactive]</pre> ■ "<ID>" is the package number in the list. ■ No option Uninstalls the specified software package in the foreground (shows the progress on the screen). ■ <code>installer uninstall <ID> completely</code> Uninstalls all previously installed Builds / Takes of a Hotfix package (removes all files). ■ <code>installer uninstall <ID> last-take</code> Uninstalls only the last installed Take of the specified Jumbo Hotfix Accumulator package. ■ <code>installer uninstall <ID> not-interactive</code> Uninstalls the specified software package in the background.

Deleting a CPUSE Software Package from Gaia

You can delete it from the CPUSE package repository to free the disk space:

- After you download or import a CPUSE package, and before you install it.
- After you uninstall a CPUSE package.

You can delete a CPUSE package in Gaia Portal or in Gaia Clish / Gaia gClish.

Procedure in Gaia Portal to delete a CPUSE package

Step	Instructions
1	With a web browser, connect to Gaia Portal at: https://<IP address of Gaia Management Interface> If you changed the default port of Gaia Portal from 443, then you must also enter it (https://<IP address>:<Port>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates.
3	Expand the applicable section: ▪ Major Versions ▪ Jumbo Hotfix Accumulator Takes ▪ Hotfix Packages
4	In the applicable row, click the 3-dot menu  and click Delete package.
5	Click Yes, delete to confirm.

Procedure in Gaia Clish / Gaia gClish to delete a CPUSE package

Note - For the complete Gaia Clish syntax, see "[CPUSE Syntax in Gaia Clish / Gaia gClish](#)" on page 56.

Step	Instructions
1	Connect to the command line on the Gaia server. Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
2	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
3	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
4	Delete the required CPUSE package: <pre>installer delete PRESS THE TAB KEY TO SEE ALL PACKAGES</pre> <pre>installer delete <ID> [not-interactive]</pre> "<ID>" is the package number in the list.

CPUSE Update Settings

CPUSE Update Settings Overview

These settings determine:

- How frequently CPUSE needs to check for updates.
- Whether to install the new CPUSE Deployment Agent automatically.
- Which tests to perform when CPUSE installs a software package.

Configuring CPUSE Update Settings in Gaia Portal

Procedure

 **Note** - Some settings are available only in Gaia Clish.

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <code>https://<IP address of Gaia Management Interface></code> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates .
3	In the top left, click Update settings .

Step	Instructions
4	In the section General: a. Select Check for updates every and configure the applicable interval. Configures how frequently to check for new CPUSE Deployment Agent versions. Default status: Selected Default interval: 6 hours Note - The value 0 disables this feature. b. Select Automatically update Deployment Agent (recommended). Configures the CPUSE Deployment Agent to check for new CPUSE Deployment Agent versions.
5	In the section Self test to perform: a. Select Verify that primary Check Point Processes are running. b. You can select Verify that the initial gateway policy is installed. Configures the CPUSE Deployment Agent to check that the local security policy is installed successfully, after it installs a software package. Default status: Not selected Note - When selected, in rare cases this test may report a failure, even though the policy is installed. c. You can select Verify network link up. Configures the CPUSE Deployment Agent to check that the link is up on the configured interfaces, after it installs a software package. Default status: Not selected Note - When selected, in rare cases this test may report a failure, even though the link is up.
6	In the section Email notifications: You see the recipient email to which the CPUSE Deployment Agent will send the enabled notifications. To configure the email settings, in the left navigation tree, click System Management > Mail notification.
7	In the section Deployment Agent: You see the CPUSE Deployment Agent build number and when it checked for a newer CPUSE Deployment Agent build. You can click Update Deployment Agent to perform a manual update - see "Updating the CPUSE Deployment Agent" on page 17.
8	Click Save.

Configuring CPUSE Update Settings in Gaia Clish

Procedure

Step	Instructions
1	Connect to the command line on the Gaia server.  Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
2	If your default shell is the Expert mode, then go to Gaia Clish: <pre>clish</pre> On Scalable Platforms, go to Gaia gClish: Type <code>gclish</code> and press Enter.
3	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
4	Examine the current CPUSE settings: <pre>show installer policy all</pre> <pre>show installer mail-notifications <Email Address></pre>
5	Configure the required CPUSE settings: <pre>set installer policy <options></pre> <pre>set installer mail-notifications <Email Address> <options></pre> <pre>delete installer mail-notifications <Email Address></pre>  Note - For the complete Gaia Clish syntax, see "Syntax to Configure the CPUSE Deployment Agent Settings" on page 69.
6	Save the changes in the Gaia database: <pre>save config</pre>  Note - On Scalable Platforms, the changes are saved automatically.

Step	Instructions
7	Examine the updated CPUSE settings: <code>show installer policy all</code> <code>show installer mail-notifications <Email Address></code>

CPUSE Event Log

Overview

CPUSE saves its actions in the event log.

Viewing the CPUSE Event Log in Gaia Portal

Procedure

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <code>https://<IP address of Gaia Management Interface></code> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates .
3	In the top left, click Event log .
4	This window shows logs from the last 10 minutes. In the top right corner, click Download full report. The default file name is: <code>DA_UI.log</code>

Viewing the CPUSE Event Log in CLI

Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in the Expert mode on the applicable Security Group.

Procedure

Step	Instructions						
1	Connect to the command line on the Gaia server. Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in the Expert mode on the applicable Security Group.						
2	If your default shell is Gaia Clish / Gaia gClish, then go to the Expert mode: <pre>expert</pre>						
3	Refer to these log files: <table> <tr> <th>Log File</th><th>Description</th></tr> <tr> <td>/opt/CPInstLog/DA_UI.log</td><td> - Contains general messages for users. - This log file is not rotated. - The last 10 minutes of the this log file appear in Gaia Portal: Software Updates section > Available Updates page > Event log button. </td></tr> <tr> <td>/opt/CPInstLog/DeploymentAgent.log</td><td> - Contains detailed technical log for administrators and for troubleshooting. - The CPUSE Deployment Agent keeps a maximum of 10 rotated files: - DeploymentAgent.1og.1 - DeploymentAgent.1og.2 ... - DeploymentAgent.1og.10 </td></tr> </table>	Log File	Description	/opt/CPInstLog/DA_UI.log	- Contains general messages for users. - This log file is not rotated. - The last 10 minutes of the this log file appear in Gaia Portal: Software Updates section > Available Updates page > Event log button.	/opt/CPInstLog/DeploymentAgent.log	- Contains detailed technical log for administrators and for troubleshooting. - The CPUSE Deployment Agent keeps a maximum of 10 rotated files: - DeploymentAgent.1og.1 - DeploymentAgent.1og.2 ... - DeploymentAgent.1og.10
Log File	Description						
/opt/CPInstLog/DA_UI.log	- Contains general messages for users. - This log file is not rotated. - The last 10 minutes of the this log file appear in Gaia Portal: Software Updates section > Available Updates page > Event log button.						
/opt/CPInstLog/DeploymentAgent.log	- Contains detailed technical log for administrators and for troubleshooting. - The CPUSE Deployment Agent keeps a maximum of 10 rotated files: - DeploymentAgent.1og.1 - DeploymentAgent.1og.2 ... - DeploymentAgent.1og.10						

CPUSE Syntax in Gaia Clish / Gaia gClish

Important:

- On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in Gaia gClish of the applicable Security Group.
- When you enable MDPS ([sk138672](#)) on the Security Gateway / Cluster Members / Scalable Platform, you must run the CPUSE commands only in the **Management Plane**:

```
set mdps environment mplane
```

Syntax to View CPUSE Software Packages and CPUSE Deployment Agent Settings

Syntax of the 'show installer' commands

```
show installer
  cpinfo
  mail-notifications <Email Address>
  package <ID>
    all
    contained-in
    contains
    description
    display-name
    downloaded-on
    imported-on
    installation-log
    installed-on
    recommended
    requires-reboot
    size
    status
    type
  packages
    all
    available-for-download
    downloaded
    imported
    installed
    recommended
  policy
    all
    auto-compress-snapshot
    check-for-updates-period
    downloads
    periodically-self-update
    self-test
      all
      install-policy
      network-link-up
      start-processes
  status
    agent
    all
    build
    connection
    license
    update-from-cloud
```

Description of the 'show installer' commands

Command	Description
<code>show installer cpinfo</code>	Shows the installed software packages and Hotfixes. Gaia Clish runs the command " <code>cpinfo -y all</code> ".
<code>show installer mail-notifications <Email Address></code>	Shows mail notifications for the specified email address. Press the Tab key to see the configured email addresses.

Command	Description
<pre>show installer package <ID> <options></pre>	Shows information about the specified CPUSE package. ■ Press the Tab key to see the available package identifiers. "<i><ID></i>" is the package number in the list, or the online CPUSE Identifier. ■ <pre>show installer package <ID> all</pre> Shows all information about the specified package. ■ <pre>show installer package <ID> contained-in</pre> Shows the packages, in which the specified package is contained. ■ <pre>show installer package <ID> contains</pre> Shows other packages that the specified package contains. ■ <pre>show installer package <ID> description</pre> Shows the description for the specified package. ■ <pre>show installer package <ID> display- name</pre> Shows the display name for the specified package. ■ <pre>show installer package <ID> downloaded-on</pre> Shows when the specified package was downloaded. ■ <pre>show installer package <ID> imported-on</pre> Shows when the specified package was imported. ■ <pre>show installer package <ID> installation-log</pre> Shows the path of the installation log for the specified package. ■ <pre>show installer package <ID> installed-on</pre> Shows when the specified package was installed. ■ <pre>show installer package <ID> recommended</pre>

Command	Description
	Shows if the specified package is recommended by Check Point for installation. ■ <code>show installer package <ID> requires-reboot</code> Shows if the specified package requires reboot after installation. ■ <code>show installer package <ID> size</code> Shows the size of the specified package. ■ <code>show installer package <ID> status</code> Shows the status of the specified package (available, downloaded, imported, or installed). ■ <code>show installer package <ID> type</code> Shows the type of the specified package.
<pre>show installer packages <options></pre>	Shows information about all CPUSE packages for this Gaia operating system: ■ <code>show installer packages all</code> Shows all packages for this Gaia operating system (available, downloaded, imported, and installed). ■ <code>show installer packages available-for-download</code> Shows all packages that are available for download for this Gaia operating system. ■ <code>show installer packages downloaded</code> Shows all packages that were downloaded, but not installed yet. ■ <code>show installer packages imported</code> Shows all packages that were imported, but not installed yet. ■ <code>show installer packages installed</code> Shows all packages that were installed. ■ <code>show installer packages recommended</code> Shows all online packages that are recommended for this Gaia operating system.

Command	Description
<pre>show installer policy <options></pre>	Shows the CPUSE Deployment Agent settings: ■ <code>show installer policy all</code> Shows all settings. ■ <code>show installer policy auto-compress-snapshot</code> Shows whether the Gaia snapshot auto-compress for Major Version installations is enabled or disabled. Note - This setting is not available in Gaia Portal. ■ <code>show installer policy check-for-updates-period</code> Shows how frequently to check for new available software packages. ■ <code>show installer policy downloads</code> Shows how the CPUSE Deployment Agent downloads the online packages (automatically, manually, or based on a schedule). Note - This setting is not available in Gaia Portal. ■ <code>show installer policy periodically-self-update</code> Shows whether the CPUSE Deployment Agent automatically updates itself if a new CPUSE Deployment Agent version is available. ■ <code>show installer policy self-test all</code> Shows which tests the CPUSE Deployment Agent perform after it installs a software package. ■ <code>show installer policy self-test install-policy</code> Shows whether after it installs a software package, the CPUSE Deployment Agent checks that the local security policy is installed successfully. ■ <code>show installer policy self-test network-link-up</code> Shows whether after it installs a software package, the CPUSE Deployment Agent checks that the link is up on the configured interfaces.

Command	Description
<pre>show installer status <options></pre>	<pre>show installer policy self-test start-processes</pre> Shows whether after it installs a software package, the CPUSE Deployment Agent checks that the required Check Point processes are running. Shows information about the CPUSE Deployment Agent: <pre>show installer status agent</pre> Shows the CPUSE Deployment Agent status (enabled or disabled). <pre>show installer status all</pre> Shows all information about the CPUSE Deployment Agent (status, build number, network connection to cloud, last update date, license status). <pre>show installer status build</pre> Shows the build number of the CPUSE Deployment Agent. <pre>show installer status connection</pre> Shows the status of the network connection of the CPUSE Deployment Agent to Check Point cloud. <pre>show installer status license</pre> Shows the status of the license (whether it allows the CPUSE Deployment Agent to work). <pre>show installer status update-from- cloud</pre> Shows the date and time of the last update from Check Point cloud.

Syntax to Work with CPUSE Software Packages and CPUSE Deployment Agent

Syntax of the 'installer' commands

```

installer agent
  disable
  enable
  install <Local Path to Deployment Agent Package>
  start
  stop
  update [not-interactive]
installer check-for-updates [not-interactive]
installer clean-install <ID> [role <Server Role>] [not-interactive]
installer delete <ID> [not-interactive]
installer download <ID>
  [not-interactive]
  [pause]
  [resume [not-interactive]]
installer download-and-install <ID> [not-interactive]
installer import
  cloud <CPUSE Identifier> [not-interactive]
  ftp <FTP IPv4 address> path <FTP Path> username <FTP Username> [password <FTP Password>] [not-interactive]
  local <Full Local Path> [not-interactive]
installer install <ID> [not-interactive]
installer uninstall <ID>
  [completely]
  [last-take]
  [not-interactive]
installer upgrade <ID> [not-interactive]
installer verify <ID> [role <Server Role>] [not-interactive]

```

Important - Before you install a CPUSE package on a Cluster or Scalable Platform, make sure to read the corresponding Administration Guide.

Installation of any software package on Clusters and Scalable Platforms is considered an **upgrade**.

Clusters and Scalable Platforms support several upgrade methods that have a different affect on your current connections.

★ Best Practices:

1. Before you perform an upgrade, read the [Installation and Upgrade Guide](#) for your version - the chapter for the product on your Gaia server.
2. Before you perform an upgrade, back up all files, in which you made manual changes.
3. After and upgrade, make the required manual changes again in the applicable files.

Do **not** overwrite the files with their backup copies.

The content of the files may change between the major versions and Jumbo Hotfix Accumulator Takes.

Description of the 'installer' commands

Command	Description
<code>installer agent</code>	Controls the CPUSE Deployment Agent: <code>installer agent disable</code> Disables the CPUSE Deployment Agent service, if it was enabled. <code>installer agent enable</code> Enables the CPUSE Deployment Agent service (this is the default). <code>installer agent install <Local Path to Deployment Agent Package></code> Specified the local path to the TGZ package with the newer CPUSE Deployment Agent. <code>installer agent start</code> Starts the CPUSE Deployment Agent process, if it was stopped. <code>installer agent stop</code> Stops the CPUSE Deployment Agent process. <code>installer agent update [not-interactive]</code> Initiates the CPUSE Deployment Agent self update from Check Point cloud.
<code>installer check-for-updates [not-interactive]</code>	Checks for new available software packages in Check Point cloud.

Command	Description
<pre>installer clean- install <ID> [role <Server Role>] [not- interactive]</pre>	Performs a Clean Install of a new major version. ■ Press the Tab key to see the available package identifiers. "<ID>" is the package number in the list. ■ The optional parameter "role" specifies how to configure this Gaia server during the clean install - as a Security Gateway, a Management Server, and so on. "<Server Role>" is one of these: • SecurityGateway • SecurityManagement • MultiDomainServer  Note - Support for different server roles in CPUSE packages is on the roadmap. ■ This procedure does not keep your settings or changes in files. This procedure: 1. Creates a new disk partition. 2. Performs a Clean Install of the selected major version. 3. Reboots the Gaia server. 4. Boots from the new disk partition with the new major version. 5. Deletes the disk partition with the previous major version.
<pre>installer delete <ID> [not-interactive]</pre>	Deletes the specified software package from the package repository. You can delete a package only if it not installed. Press the Tab key to see the available package identifiers. "<ID>" is the package number in the list.

Command	Description
<pre>installer download <ID> [<options>]</pre>	Downloads the specified software package from the Check Point cloud in the specified way: ■ Press the Tab key to see the available package identifiers. "<ID>" is the package number in the list. ■ No option Downloads the specified package in the foreground (shows the progress on the screen). ■ <pre>installer download <ID> not-interactive</pre> Downloads the specified package in the background. ■ <pre>installer download <ID> pause</pre> Pauses the download of the specified package in the background. ■ <pre>installer download <ID> resume</pre> Resumes the download of the specified package in the foreground (shows the progress on the screen), if it was paused. ■ <pre>installer download <ID> resume [not-interactive]</pre> Resumes the download of the specified package in the background, if it was paused.
<pre>installer download- and-install <ID> [not- interactive]</pre>	Downloads (from the Check Point cloud) and immediately installs the specified package. This command supports only Hotfixes and Jumbo Hotfix Accumulators. (does not support Upgrade or Major Version packages). Press the Tab key to see the available package identifiers. "<ID>" is the package number in the list.

Command	Description
<pre>installer import <options></pre>	Imports the specified software package: <pre>installer import cloud <CPUSE Identifier> [not-interactive]</pre> Imports the specified software package from Check Point cloud if the Gaia server is connected to the Internet. The "<CPUSE Identifier>" string is provided by Check Point Support, in SK articles, or in Administration Guides. <pre>installer import ftp <FTP IPv4 address> path <FTP Path> username <FTP Username> [password <FTP Password>] [not-interactive]</pre> Imports the specified software package from an FTP server. "<FTP Path>" is the relative path on the FTP server that includes the file name (for example, Packages/Hotfix_package.tgz). - You can specify the FTP password as part of the syntax. <pre>installer import local <Full Local Path> [not-interactive]</pre> Imports the specified software package from a local directory. - Before you can run this command, you must transfer the package to the Gaia server to that local directory. "<Full Local Path>" is the absolute path that includes the file name (for example, /var/log/Hotfix_package.tgz).
<pre>installer install <ID> [not-interactive]</pre>	Installs the specified software package. This command supports only Hotfixes and Jumbo Hotfix Accumulators. (does not support Upgrade or Major Version packages).

Command	Description
<pre>installer uninstall <ID> [<options>]</pre>	Uninstalls the specified software package in the specified way. This command supports only Hotfixes and Jumbo Hotfix Accumulators. ■ Press the Tab key to see the available package identifiers. "<ID>" is the package number in the list. ■ No option Uninstalls the specified software package in the foreground (shows the progress on the screen). ■ <pre>installer uninstall <ID> completely</pre> Uninstalls all previously installed Builds / Takes of a Hotfix package (removes all files). ■ <pre>installer uninstall <ID> last- take</pre> Uninstalls only the last installed Take of the specified Jumbo Hotfix Accumulator package. ■ <pre>installer uninstall <ID> not- interactive</pre> Uninstalls the specified software package in the background.
<pre>installer upgrade <ID> [not-interactive]</pre>	Performs an upgrade to a new major version using the specified upgrade package. Press the Tab key to see the available package identifiers. "<ID>" is the package number in the list. This procedure keeps your settings, except for Check Point configuration files.

Command	Description
<pre>installer verify <ID> [role <Server Role>] [not-interactive]</pre>	Analyzes the specified software package and shows if this package is allowed for installation on this Gaia server. ■ Press the Tab key to see the available package identifiers. " <ID>" is the package number in the list. ■ The optional parameter "role" specifies how to configure this Gaia server during the clean install - as a Security Gateway, a Management Server, and so on. " <Server Role>" is one of these: • SecurityGateway • SecurityManagement • MultiDomainServer  Note - Support for different Gaia server roles in CPUSE packages is on the roadmap.

 **Note** - The parameter "not-interactive" is optional. When specified, the CPUSE Deployment Agent performs its actions in the background.

Syntax to Configure the CPUSE Deployment Agent Settings

Syntax of the 'set installer' commands

```
set installer
  mail-notifications <Email Address>
    download-status {on | off}
    install-status {on | off}
    new-available-packages {on | off}
  policy
    auto-compress-snapshot {on | off}
    check-for-updates-period <0 | 1-240 hours>
    downloads
      automatic
      manual
      scheduled
        daily <HH:MM>
        monthly <01-31> at <HH:MM>
        once <DD-MMM-YYYY> at <HH:MM>
        weekly {Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday} at <HH:MM>
    periodically-self-update {on | off}
    self-test
      install-policy {on | off}
      network-link-up {on | off}
      start-processes {on | off}

delete installer mail-notifications <Email Address>
```

Description of the 'set installer' commands

Parameter	Description
<pre>set installer mail- notifications <Email Address> <options></pre>	Configures which email notifications the CPUSE Deployment Agent needs to send to the specified recipient: <pre>set installer mail-notifications <Email Address> download-status {on off}</pre> Email notifications only for downloads of software packages. Note - This setting is not available in Gaia Portal. <pre>set installer mail-notifications <Email Address> install-status {on off}</pre> Email notifications only for installations of software packages. Note - This setting is not available in Gaia Portal. <pre>set installer mail-notifications <Email Address> new-available- packages {on off}</pre> Email notifications only for available online software packages. Note - This setting is not available in Gaia Portal.

Parameter	Description
<pre>set installer policy <options></pre>	Configures the CPUSE Deployment Agent settings: <pre>set installer policy auto-compress-snapshot {on off}</pre> Configures whether to compress the Gaia snapshot for Major Version installations. Note - This setting is not available in Gaia Portal. <pre>set installer policy check-for-updates-period <0 1-240 hours></pre> Configures how frequently to check for new CPUSE Deployment Agent versions. Default: 6 hours Note - The value 0 disables this feature. <pre>set installer policy downloads automatic</pre> Configures the CPUSE Deployment Agent to download automatically the available online packages. Note - This setting is not available in Gaia Portal. <pre>set installer policy downloads manual</pre> Configures the CPUSE Deployment Agent to download the available online packages only manually. This is the default. Note - This setting is not available in Gaia Portal. <pre>set installer policy downloads scheduled <options></pre> Configures the CPUSE Deployment Agent to download the available online packages based on a schedule (daily, weekly, monthly, or only once). Note - This setting is not available in Gaia Portal. <pre>set installer policy periodically-self-update {on off}</pre> Configures the CPUSE Deployment Agent to check for new CPUSE Deployment Agent versions. Default: Enabled

Parameter	Description
	<pre>set installer policy self-test install-policy {on off}</pre> Configures the CPUSE Deployment Agent to check that the local security policy is installed successfully, after it installs a software package. Default: Disabled Note - When enabled, in rare cases this test may report a failure, even though the policy is installed. <pre>set installer policy self-test network-link-up {on off}</pre> Configures the CPUSE Deployment Agent to check that the link is up on the configured interfaces, after it installs a software package. Default: Disabled Note - When enabled, in rare cases this test may report a failure, even though the link is up. <pre>set installer policy self-test start-processes {on off}</pre> Configures the CPUSE Deployment Agent to check that the required Check Point processes are running, after it installs a software package. Default: Enabled
<pre>delete installer mail- notifications <Email Address></pre>	Deletes email notifications from the specified recipient. Press the Tab key to see the configured email addresses.

Changing the CPUSE GUI

Overview

CPUSE Deployment Agent provides two user interfaces (CPUSE GUI views) in Gaia Portal:

- **New** - This is the default view in Gaia R82 and higher.

This new CPUSE GUI view is available starting from the CPUSE Deployment Agent build **2337** (released on 09 October 2023).

- **Legacy** - This is the default view in Gaia R81.20 and lower.

You can change the CPUSE GUI in Gaia Portal or in the Expert mode.

Changing the CPUSE GUI in Gaia Portal

Procedure in Gaia Portal to change the CPUSE GUI from the new view to the legacy view

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <code>https://<IP address of Gaia Management Interface></code> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Software Updates > Available Updates .
4	In the top right corner, click Revert to legacy layout .
3	In the Revert to legacy layout window: Optional: Select the reason for this change. Optional: Enter your free-text feedback. - Click Revert to legacy layout.

Procedure in Gaia Portal to change the CPUSE GUI from the legacy view to the new view

Step	Instructions
1	With a web browser, connect to Gaia Portal at: <code>https://<IP address of Gaia Management Interface></code> If you changed the default port of Gaia Portal from 443, then you must also enter it (<code>https://<IP address>:<Port></code>).  Important - On Scalable Platforms (Maestro and Chassis), you must connect to the Gaia Portal of the applicable Security Group.
2	In the left navigation tree, click Upgrades (CPUSE) > Status and Actions .
3	In the top right corner, click the New experience button.

Changing the CPUSE GUI in CLI

Procedure in CLI to change the CPUSE GUI view

Step	Instructions
1	Connect to the command line on the Gaia server.  Important - On Scalable Platforms (Maestro and Chassis), you must run the applicable commands in the Expert mode on the applicable Security Group.
2	If your default shell is Gaia Clish / Gaia gClish, then go to the Expert mode: <pre>expert</pre>
3	If you enabled MDPS (sk138672) on the Security Gateway / Cluster Members / Scalable Platform, then go to the Management Plane: <pre>set mdps environment mplane</pre>
4	Change the CPUSE GUI view: <pre>da_cli switch_gui↑</pre> ▪ If the current CPUSE GUI shows the new view, it changes to the legacy view. ▪ If the current CPUSE GUI shows the legacy view, it changes to the new view.
5	If your web browser is still connected to Gaia Portal, refresh the page: Press the CTRL + F5 keys.

CPUSE Architecture and Design

The CPUSE Deployment Agent is installed on each Gaia-based device and it is responsible for all software deployment process on that device.

Applicable CPUSE Software Packages

All applicable software packages are uploaded to the Check Point cloud.

In the Gaia Operating System that is connected to the Internet, the CPUSE Deployment Agent shows software packages that are applicable only to this specific Gaia server.

For a Gaia server is not connected to the Internet, you can manually download the required offline CPUSE packages and then import them on that Gaia server.

Suppressing the Reboot Behavior

At the beginning of each installation / uninstall of a Hotfix / Jumbo Hotfix Accumulator, the CPUSE Deployment Agent asks the user whether to perform a reboot automatically when the installation / uninstall completes. You can suppress this automatic reboot functionality to perform post-install / post-uninstall actions (that also require reboot) and thus reduce the number of reboots.

If you choose to suppress the automatic reboot, then the CPUSE Deployment Agent does not reboot the Gaia server automatically. However, all actions are allowed blocked for the installed Hotfix / Jumbo Hotfix Accumulator package (except for exporting the package and deleting the package from disk). All actions are allowed for other packages.

 **Important** - During the installation / uninstall of a CPUSE package, all Check Point services are stopped (with the "`cpstop`" command). Therefore, we strongly recommend to complete all the necessary maintenance operations and reboot the Gaia server as soon as possible to restore the normal operation of Check Point software. For more details, refer to [sk113045](#).

Name of the CPUSE Package in Gaia Portal / Gaia Clish

Download Source / CPUSE Package	Name of CPUSE Package
From the Check Point cloud (CPUSE Online installation)	The CPUSE Deployment Agent takes the package name from the Check Point cloud (from the corresponding metadata package).
CPUSE Offline package	The CPUSE Deployment Agent shows the name of the TAR / TGZ file.
CPUSE Exported package that you imported	The CPUSE Deployment Agent takes the package name from the original CPUSE package.

CPUSE Local Package Repository

All CPUSE packages you download and manually import on a Gaia server are located in the `$DADIR/repository/tmp/` directory.

This directory contains symbolic links to the `/var/log/CPda/repository/tmp/` directory, where these CPUSE package are physically stored.

CPUSE Deployment Agent (DA)

Main Directory for the CPUSE Deployment Agent

```
/opt/CPda/
```

The environment variable is: `$DADIR`

Main Daemon for the CPUSE Deployment Agent

```
$DADIR/bin/DAService
```

Log Files for the CPUSE Deployment Agent

In addition, see ["CPUSE Event Log" on page 54](#).

Log File	Description
/opt/CPInstLog/DA_UI.log	- Contains general messages for users. - This log file is not rotated. - The last 10 minutes of the this log file appear in Gaia Portal: Software Updates section > Available Updates page > Event log button.
/opt/CPInstLog/DeploymentAgent.log	- Contains detailed technical log for administrators and for troubleshooting. - The CPUSE Deployment Agent keeps a maximum of 10 rotated files: - DeploymentAgent.log.1 - DeploymentAgent.log.2 ... - DeploymentAgent.log.10

Manual start and stop of the CPUSE Deployment Agent

Action	Instructions
Get the current status of the CPUSE Deployment Agent	Procedure for Gaia Clish / Gaia gClish 1. Connect to the command line on the Gaia server. 2. Log in to Gaia Clish. On Scalable Platforms, log in to Gaia gClish. 3. Examine the CPUSE Deployment Agent status: <pre>show installer status agent</pre> ▪ "Agent: Enabled" means the CPUSE Deployment Agent daemon is running. ▪ "Agent: Disabled" means the CPUSE Deployment Agent daemon is not running. Procedure for the Expert mode 1. Connect to the command line on the Gaia server. 2. Log in to the Expert mode. 3. Run one of these commands: ▪ Run the applicable Gaia Clish command (Gaia gClish command on Scalable Platforms): <pre>clish -c "show installer status agent"</pre> <pre>gclish -c "show installer status agent"</pre> • "Agent: Enabled" means the CPUSE Deployment Agent daemon is running. • "Agent: Disabled" means the CPUSE Deployment Agent daemon is not running. ▪ Run the applicable Expert mode command: <pre>cpwd_admin list grep -E "APP DASERVICE"</pre> Refer to the "STAT" column: • "E" (stands for executing) means the CPUSE Deployment Agent daemon is running. • "T" (stands for terminated) means the CPUSE Deployment Agent daemon is not running.

Action	Instructions
Stop the CPUSE Deployment Agent	Procedure 1. Connect to the command line on the Gaia server. 2. Log in to the Expert mode. 3. Disable the monitoring of the CPUSE Deployment Agent daemon by Check Point WatchDog: <pre>\$DADIR/bin/dastop</pre> This "dastop" command runs this command in the background: <pre>cpwd_admin stop -name DASERVICE</pre> 4. Manually stop the CPUSE Deployment Agent daemon in one of these ways: ■ In the Expert mode: <pre>DAClient stop</pre> ■ In Gaia Clish / Gaia gClish: <pre>installer agent stop</pre>
Start the CPUSE Deployment Agent after you stopped it	Procedure 1. Connect to the command line on the Gaia server. 2. Log in to the Expert mode. 3. Enable the monitoring of the CPUSE Deployment Agent daemon by Check Point WatchDog: <pre>\$DADIR/bin/dastart</pre> This "dastart" command runs this command in the background: <pre>\$CPDIR/bin/cpwd_admin start -name DASERVICE -path "/opt/CPda/bin/DASERVICE_script" -command "DASERVICE_script"</pre> 4. Manually start the CPUSE Deployment Agent daemon in one of these ways: ■ In the Expert mode: <pre>DAClient start</pre> ■ In Gaia Clish / Gaia gClish: <pre>installer agent start</pre>

Software Package Installation by the CPUSE Deployment Agent

How the CPUSE Deployment Agent installs a Major Version / Upgrade package

1. Pre-install validation (installation type - Security Gateway or Management Server), package validation, disk space, conflicts between fix IDs, version compatibility, server type - Check Point Appliance or Open Server, upgrade path).

See ["Part 2 of 3 - Verify the CPUSE Software Package" on page 33](#).

2. Create a new disk partition.
3. Install new version files onto the new disk partition.
4. Configure the new version, migrate the applicable configuration (object database on a Management Server, SIC, Licenses, applicable settings on a Security Gateway).
5. Configure the products on the new disk partition.
6. Reboot the server.
7. Boot from the new disk partition.
8. Import the database on a Management Server, complete the product configuration, fetch policy on a Security Gateway.
9. Run the CPUSE post-install self-tests.

See ["CPUSE Update Settings" on page 50](#).

How the CPUSE Deployment Agent installs a Hotfix / Jumbo Hotfix Accumulator package

1. Pre-install validation (installation type - Security Gateway or Management Server), package validation, disk space, conflicts between fix IDs, version compatibility).

See ["Part 2 of 3 - Verify the CPUSE Software Package" on page 33](#).

2. Unpack the new CPUSE package.
3. Back up the current CPUSE package.
4. Stop the Check Point services (the "cpstop" command).
5. Prepare the diff-files (what exactly should be replaced).
6. Replace the target files. Rollback, if the installation fails.
7. Register the installed package in Check Point Registry.

8. Reboot (automatically, if the CPUSE package requires this) or start the Check Point services (the "`cpstart`" command).
9. Run the CPUSE post-install self-tests.

See "[CPUSE Update Settings](#)" on page 50.

Software Package Verification by the CPUSE Deployment Agent

Pre-Install Verifications

As part of the verification actions, or at the start of each package installation, the CPUSE Deployment Agent runs several tests to make sure the package is compatible for the installation:

1. Available disk space
2. Content validation (conflicts with installed content)
3. Package is not corrupted

On a Security Management Server / Multi-Domain Security Management Server, at the beginning of an upgrade, the CPUSE Deployment Agent automatically runs the Pre-Upgrade Verifier (PUV) - a validation tool, similar to the pre-upgrade verifier that runs as a part of the Management Server migration process.

If one of the verification tests fails, an administrator is required to resolve the issue, and only then to start the package installation again.

Post-Install Self-Tests

The CPUSE Deployment Agent has a self-test feature that runs after installation and checks whether the installation has succeeded - and its purpose is to validate that the required settings are correct and the required daemons are running.

You can configure these self-tests:

1. Check Point daemons are up and running before the package installation, are up and running after the package installation (this self-test is enabled by default)
2. On a Security Gateway, the local policy fetch works after the package installation (this self-test is disabled by default)
3. Network links that were up before the package installation, are up after the package installation (this self-test is disabled by default)

See ["CPUSE Update Settings" on page 50](#).

The self-test failure condition is different from a regular installation failure - during a regular installation failure, there is an automatic rollback and the Gaia server returns to a point before the package installation started.

Digital Signature for CPUSE Packages

Check Point digitally signs all CPUSE packages using an SHA-256 digital signature since April 2015.

The CPUSE Deployment Agent performs the SHA-256 signature verification and the MD5 integrity verification of the downloaded CPUSE packages. If the either verification fails, the download is considered as failed.

If you download a CPUSE package from an on-premises Private ThreatCloud Appliance, then all CPUSE packages are signed at the source (by Check Point) using an ECDSA P-521 / SHA-512 digital signature.