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CloudGuard Network Security

Gateway Performance for KVM-Based Cloud Infrastructure

CloudGuard Cloud Network Security, part of the CloudGuard Cloud Native Security platform, provides advanced threat prevention and automated cloud network security through a virtual security gateway, with unified security management across all your multi-cloud and on-premises environments.

For public clouds, CloudGuard provides automated and elastic public cloud network security to keep assets and data protected while staying aligned to the dynamic needs of public cloud environments.

For private clouds, CloudGuard delivers dynamic security within virtual datacenters to prevent the lateral spread of threats while consolidating visibility & management across physical & virtual networks.

Advanced Threat Prevention

Provides North-South and East-West protection of cloud assets

Automated Network Security

Supports rapid deployment, agility and automation of CI/CD workflows

Unified Management Across All Clouds

Consistent policy to manage security across on-prem and multi-cloud environments

Performance: CloudGuard Network Security (R81.20) on KVM-Based Cloud I/S

Notes:

- Next Generation Firewall (NGFW) throughput is measured with FW, IPS, Application Control features enabled (see table 2 below), using Check Point Enterprise testing conditions.
- Next Generation Threat Prevention (NGTP) throughput is measured with FW, IPS, Application Control, URL Filter, Anti-Virus, Anti-Bot features enabled (see table 2 below), using Check Point Enterprise testing conditions.
- Testing conducted on Intel(R) Xeon(R) Gold 6209U CPU @ 2.10GHz, Testing RAM size was 8GB, Network Interface: Intel Ethernet X710 for 10GbE SFP+

It is recommended to run additional testing within your environment to ensure your performance requirements are met. Your performance may vary depending on underlying cloud vendor infrastructure performance.

	2 vCPU	4 vCPU	8 vCPU
Concurrent Connections	200K Per GB RAM*		
FW Only	7.8Gbps**	11Gbps**	11Gbps**
FW + IPS	4.1Gbps	7.6Gbps	11Gbps
NGFW (FW + IPS + Application Control)	2.7Gbps	5.8Gbps	11Gbps
NGTP (NGFW + URL Filter + Anti-Virus + Anti-Bot)	1Gbps	2.2Gbps	4.4Gbps
Remote access VPN Concurrent Connections (NGFW)	500	1000	1700
Remote access VPN Concurrent Connections (NGTP)	400	750	1500
Accuracy range: +/-5% *Concurrent Connections may be limited by cloud provider **Total Throughput may be limited by cloud provider			

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Content Security

First Time Prevention Capabilities

- OS-level and static file analysis
- File disarm and reconstruction via Threat Extraction
- Average emulation time for unknown files that require full sandbox evaluation is under 100 seconds
- Maximal file size for Emulation is 100 MB
- Emulation OS Support: Windows XP, 7, 8.1, 10

Applications

- Use 8,000+ pre-defined or customize your own applications
- Accept, prevent, schedule, and apply traffic-shaping

Data Loss Prevention

- Classify 700+ pre-defined data types
- End user and data owner incident handling

Dynamic User-based Policy

- Integrates with Microsoft AD, LDAP, RADIUS, Cisco pxGrid, Terminal Servers and with 3rd parties via a Web API
- Enforce consistent policy for local and remote users on Windows, macOS, Linux, Android and Apple iOS platforms

Network

High Availability

- Active/Active L2, Active/Passive L2 and L3*
- Session failover for routing change, device and link failure

*Not applicable for cloud service providers usage

IPv6

- NAT66
- CoreXL, SecureXL

Unicast and Multicast Routing (see SK98226)

- OSPFv2, BGP, RIP
- Static routes, Multicast routes
- Policy-based routing
- PIM-SM, PIM-DM, IGMP v2, and v3

All-inclusive Security

	NGFW	NGTP	NGTX
	Basic access control	Prevent known threats	Prevent known and zero-day attacks
Firewall	✓	✓	✓
VPN (IPsec)	✓	✓	✓
IPS	✓	✓	✓
Application Control	✓	✓	✓
Content Awareness	✓	✓	✓
URL Filtering		✓	✓
Anti-Bot		✓	✓
Anti-Virus		✓	✓
Anti-Spam		✓	✓
SandBlast Threat Emulation			✓
SandBlast Threat Extraction			✓

Each gateway requires a license for the enabled security feature.

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