SECURE YOUR EVERYTHING"



Check Point Cloudguard Network Security Gateway on OCB Flexible Engine Deployment and Configuration Guide v1.3

May 2021

Abstract

This Deployment and Configuration guide describe in details essential information to be known before deployment, how to configure OCB workload, deploy, integrate and configure Check Point Cloudguard Network Security Gateway. In the document, we are making sure integration was successful, addressing also licensing topic.

Audience

The information presented in this paper is aimed to guide Security Experts, Cloud Security Consultant on how to deploy and configure Check Point Cloudguard Network Security gateway on Orange Cloud for Business Flexible Engine.

> William Mikanowski Check Point Security Solutions Expert



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CLOUD TRANSFORMATION INTRODUCTION

Cloud transformation is all around us. For security professionals, it is a defining statement of our time, shaping the cyber security landscape. Nevertheless, cloud transformation is complex and challenging, with long-held operational models and fundamental business processes.

In the following paper, we will highlight some of the common cloud network security deployment that enterprise architecture teams are considering and how Orange and Check Point can be their cloud security trusted partner to succeed in that transformation journey.

Rebuilding your security infrastructure around a Zero Trust approach using disparate technologies might lead to complexities and inherent security gaps. To avoid that, Check Point recommends a more practical and holistic approach to implement Zero Trust, based on single consolidated cyber-security architecture.

The single consolidated security architecture enables organizations to fully implement all of the Zero Trust principles. Focused on threat prevention and centrally managed through a centralized security console, which empowers Zero Trust implementations with unparalleled security and efficiency.

This approach aligned with the Zero-Trust principle considers one the following element that is part of the cloud transformation project but definitively a first stage of protection.

Check Point Cloudguard Network Security Gateways enable micro-segmentation of the network across your entire IT infrastructure, across private/public clouds and corporate network environments. In addition, Integration with Check Point's Identity Awareness and Application Control enables a granular policy that is context-identity-aware and achieves a "Least Privileged" access control.

To know more about Check Point Cloud Security strategy, please refer to:

- Security Reference Architectures for Public Clouds Using CloudGuard Network Security
- <u>Check Point Cloud Native Security Model</u>



TO KNOW BEFORE THE DEPLOYMENT OF THE SOLUTION

PRE-REQUISITES & SUPPORTED PLATFORM

Image Name:

Check Point Cloudguard Network Security Gateway R80.40

For more information on R80.40, refer to <u>sk160736 - Check Point R80.40</u> For more information on CloudGuard including documentation and known limitations, refer to <u>sk132552 - Check Point CloudGuard solutions</u>

Supported Version:

R80.40 GA Take 294 plus Jumbo HF Take_94 or above Jumbo HF GA releases

File Name: Check_Point_R80_40_JUMBO_HF_Bundle_T94_sk165456_FULL.tgz Release Date: 07-Mar-2021

For more information about Jumbo Hotfix Accumulator for R80.40, please refer to solution ID: <u>sk165456</u>

SUPPORTED DEPLOYMENT SCENARIOS

- Network Security Gateway deployment is the supported scenario currently.
- Network Security Gateways in High Availability deployment expected to be supported scenario by end of Q221.
- Management of the security gateway can be delivered from existing customer on-premises Security Management Server or Multi-Domain Management, Check Point Cloud Management SaaS solution (<u>Quantum Smart-1 Cloud</u>) or using Orange MSSP management model (support is expected at later stage target during H221).

MINIMUM CONFIGURATION

- <u>CPU:</u> 2 vCPUs
- RAM: 4 GB
- Elastic Cloud Server Type: s3.large.2 (to be confirmed by Orange Assured / Maximum Bandwidth)
- System Disk: 110GB
- Interfaces: 2 NICs (maximum 12 limited by Elastic Cloud Server) with 1 EIP

Elastic Cloud Server Types:

Flavor Name	vCPUs Memory J⊟	Assured / Maximum Bandwidth ⑦ JΞ	Packets Per Second (PPS) ⑦ ↓Ξ
• c3.large.2	2 vCPUs 4 GB	0.6/1.5 Gbit/s	300,000
C3.xlarge.2	4 vCPUs 8 GB	1/3 Gbit/s	500,000
C3.2xlarge.2	8 vCPUs 16 GB	2/5 Gbit/s	900,000



PERFORMANCE

The performance numbers provided below are for CloudGuard Network Security (R80.40 release) on KVM platform.

Machine Size	2 vCores	4 vCores	8 vCores
NGFW (FW + IPS + Application Control)	3.2 Gbps	6 Gbps	11 Gbps
NGTP (FW + IPS + Application Control + URL Filtering + Anti-Virus + Anti-Bot)	1 Gbps	1.8 Gbps	3.6 Gbps

Notes:

- Next Generation Firewall (NGFW) throughput is measured with FW, IPS and Application Control, features enabled, using Check Point Enterprise testing conditions. SSL Decryption is not part of testing.
- Next Generation Threat Prevention (NGTP) throughput is measured with FW, IPS, Application Control, URL Filter, Anti-Virus, Anti-Bot features enabled, using Check Point Enterprise testing conditions. SSL Decryption is not part of testing.
- Testing conducted on Intel® Xeon® Gold 5218R Processor (27.5M Cache, 2.10 GHz) Testing RAM size was 4GB for 2vCores, 8GB for 4vCores, 16GB for 8 vCores.
- DUT (Device Under Test) R80.40 KVM image using VirtIO driver
- Recommendation is 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.
- For SSL decryption figures, please approach your Check Point presales representative with the type of SSL flow analysis (inbound, outbound, both) needed, and percentage of SSL in overall traffic (75%, 90%, other).



ORANGE FLEXIBLE ENGINE WORKLOAD PREPARATION

CREATION OF AN ELASTIC CLOUD SERVER

Connect to your Orange Cloud for Business Flexible Engine tenant then go to All Services \rightarrow Computing \rightarrow Elastic Cloud Server page.

ora	Business Services	♀ eu-west-0 ▼	Homepage	Service List V	Favorites •		
	All Services	My Favorites					
	Computing	~				Stora	ge v
	Elastic Cl Elastic, sca	oud Server (3) alable computing servers				\bigcirc	Cloud Backup and Recovery (0) Unified backups for cloud and on-premises resources.
	Bare Met Provides d	al Server (0) edicated physical servers for t	ienants			Ð	Data Express Service (0)
	Cloud Se Secure, rel	rver Backup Service (0) iable cloud server backup				\bigcirc	Elastic Volume Service (3) Elastic, scalable block storage

Click on Create ECS button.

ora	Business Homepage Services	e eu-west-0 ▼				English		, () ?
	Cloud Server Console	Elastic Cloud Server ② You can cre	ate 2 more ECSs. The EC	CSs can use up to 12 vCF	PUs and 19.1 GB of memory. Qu	ota details		Create ECS
8	Dashboard	Start Stop Restart	Delete	All statuses	▼ Name	Ŧ	Q Sea	arch by Tag 🗧 🖸
M	Elastic Cloud Server	Name/ID	AZ	Status	Specifications/Image	IP Address	Tag	Operation

Select Region, AZ and image Flavor name with target Specifications type.

≡	< Elastic Cloud Se	erver			
٢	1 Configure Basic Se	ttings (2) Configure Network	Onfigure Advanced Settings	— (4) Confirm	
& M	Region	eu-west-0 To select a diffe access, select the nearest region.	rrent region, use the region selector at the upper l h other. Resources are region-specific and canno	sft of the main menu bar. t be used across regions through internal network connections. F	or low network latency and quick resource
6	AZ	Random	-0b eu-west-0a	eu-west-Oc ?	
0 10 14	Specifications	VCPUs All Provider applicat general-purpose Computing I	dedicated resources and stable nce. It is ideal for enterprise-class ons with high computing ance and stability requirements. Dedicated general-purpose Memory-optin	Flavor Name Q	
		Flavor Name	vCPUs Memory ↓Ξ	Assured / Maximum Bandwidth ⑦ JΞ	Packets Per Second (PPS) ⑦ ↓Ξ
		• c3.large.2	2 vCPUs 4 GB	0.6/1.5 Gbit/s	300,000
		C3.xlarge.2	4 vCPUs 8 GB	1/3 Gbit/s	500,000
		C c3.2xlarge.2	8 vCPUs 16 GB	2/5 Gbit/s	900,000
		c3.4xlarge.2 (Sold Out)	16 vCPUs 32 GB	4/10 Gbit/s	1,300,000
		c3.8xlarge.2 (Sold Out)	32 vCPUs 64 GB	8/15 Gbit/s	2,600,000
		c3.15xlarge.2 (Sold Out)	60 vCPUs 128 GB	16/16 Gbit/s	5,000,000
		C6.large.2	2 vCPUs 4 GB	1.2/4 Gbit/s	400,000
		C6.large.4	2 vCPUs 8 GB	1.2/4 Gbit/s	400,000
		Selected specifications Dedicated ge	neral-purpose c3.large.2 2 vCPUs 4 GB		



Finally, select Public Image named Check Point Cloudguard Network Security Gateway R80.40.

On System Disk parameter, select Common I/O and allow a minimum of 110 GB.

Image	Public image Private image Shared image	
	Check_Point_R80.40_Cloudguard_Openstack_Security_Gateway	
System Disk	Common I/O	
Quantity - 1	+ Next: Configure Network	

Click Next Configure Network button.

Configure <u>at least two</u> Network interfaces for the Security Gateway instance <u>on two different</u> subnets, using Manually-specified IP address option.

Before the first Security Policy push on Security Gateway, make sure to restrict as much as possible the access to the instance using proper Inbound Rules of the Security Group Rules. <u>Don't forget to remove the restrictions afterwards.</u>

Finalize the Network configuration by assigning an <u>already defined</u> EIP (Elastic IP) IP public address to the external interface of your Security Gateway instance in order to allow updates or being able to manage it from your Management Security Server on premises over the Internet.

≡	< Elastic Cloud Se	rver					
٢	(1) Configure Basic Set	ttings — 2 Configure Net	work (3) Configure Advance	d Settings — (4)	Confirm		
& ∭ ⊡ ∅	Network Extension NIC	vpc-d0/9(192.168.0.0/16) v subnet-81cb(192.168.10.0/24) v Available private IP addresses: 247 0 Create VPC subnet-d0/9(192.168.1.0/24) v Manually-specified IP address 192 168 1 250 View In-Use IP Addresses: 247 0 Valiable private IP addresses: 247 12 168 1 250 View In-Use IP Addresses					
		Add NIC You can add 10 me	re NICs.				
	Security Group	default (d320c66a-3c37-458b-1 Similar to a firewall, a security gro Ensure that the selected security Security Group Rules Inbound Rules Outb	default (d320c66a-3c37-458b-b801-ea6009788558) C C Create Security Group Image: C C C Create Security Group Image: C C Create Security Group Image: C C C Create Security Group Image: C C Create Security Group Image: C C C Create Securit				
		Security Group Name	Protocol & Port ?	Туре	Source ③	Description	
			All	IPv4	192.168.1.40/32	-	
		defende	All	IPv4	90.84. /32		
		default	All	IPv4	90.84. /32		
			All	IPv4	92. /32		
	EIP	Do not use Auto assi If you specify an EIP, you can cred	an Specify ⑦ te only one ECS at a time.				
	Quantity - 1	+				Previous Next: Configure Advanced Settings	

Click Next Configure Advanced Settings button.

Indicates an ECS Name, Select Key pair that already been created or click Create Key Pair. Tick the box I acknowledge that I have obtain private key file ...

Ξ	< Elastic Cloud Ser	ver
٢	(1) Configure Basic Sett	ings ——— ② Configure Network ——— ③ Configure Advanced Settings ——— ④ Confirm
& MA	ECS Name	ecs-bea4 If multiple ECSs are created at the same time, the system automatically adds a hyphen followed by a four-digit incremental number to the end of each ECS name. For example, if you enter ecs and there is no existing ECS in the system, the first ECS's name will be eco.0001. If an ECS with the name eco.0000 already exists, the name of the first new ECS will be eco.0001.
0 0	Login Mode	Key pair To click Remote Login to log in to a Linux ECS in key pair login mode, you must set a login password after the ECS is created. Learn how to set the password.
© 4	Key Pair	The private key will be required for logging in to the ECS and for reinstalling or changing the OS. Keep it secure. KeyPair:69c9 C Create Key Pair ⑦
		After a Linux ECS is created, use this key pair to log in to the ECS. After a Windows ECS is created, locate the row that contains the ECS in the ECS list, click Get Password in the Operation column, and use this key pair to obtain the Windows ECS log in password.
	ECS Group (Optional)	Anti-affinity Select ECS group Create ECS Group
	Advanced Options	Configure now
	Quantity - 1	+ Previous Next: Confirm

Click Next Confirm button.

< Elastic Cloud	Server					
1 Configure Basic	Settings 2) Configure Network — 3 Config	ure Advanced Settings —	Confirm		
Configuration	Basic 🖉					
	Region	eu-west-0	AZ	eu-west-0b	Specifications	Dedicated general-purpose c3.large
	Image	Check_Point_R80.40_Cloudguard_Op	System Disk	Common I/O,110 GB		
	Network 🖉					
	VPC	vpc-d0f9(192.168.0.0/16)	Security Group	default	Primary NIC	(192.168.10.250)
	Extension NIC	(192.168.1.250)	EIP	EIP bound to the primary network		
	Advanced 🖉					
	ECS Name	ecs-bea4	Login Mode	Key pair	Key Pair	KeyPair-69c9
	ECS Group					
Quantity	- 1	+ You can create only one ECS at a time i	f a static NIC IP address is t	specified.		
						Previous

Elastic Cloud Server ② You can create 1 more ECSs. The ECSs can use up to 10 vCPUs and 15.1 GB of memory. Quota details Start Stop Restart Delete All statuses Name * Q Search by Tag ⊗ C Ľ Name/ID AZ Status Specifications/Image IP Address Tag Operation ecs-bea4 2 vCPUs | 4 GB | c3.large.2 -- (Private IP) eu-west-0b Creating ---Remote Login | More 🔻 967f5aeb-64e5-4620-80.. Check_Point_R80.40_Clou...

Check the status of your Elastic Cloud Server Security Gateway creation to make sure it finished after few minutes from Creating to Running state.

SECURE YOUR EVERYTHING"



Elastic Cloud	Server ⑦ You can create 1 more ECSs. The ECSs can use up to 1	0 vCPUs and 15.1 GB of memory. Quota details	3	
Start	Stop Restart Delete			
	Name/ID	AZ	Status	Specifications/Image
	ecs-bea4 967f5aeb-64e5-4620-8016-30147d03b59d	eu-west-0b	Running	2 vCPUs 4 GB c3.large.2 Check_Point_R80.40_Cloudguard_Openstack_Security_G

Once in Running state, make sure to change the following configuration to your instance before moving to next step.

Important notes:

- 1. On NIC Section, Make sure to deactivate the Source/Destination Check for all interfaces of the ECS.
- 2. <u>Don't forget to set the EIP Bandwidth Size limit accordingly</u> (1 Gbps by example) and to make sure it is bind to external interface topology of your Security Gateway.
- 3. Restrict Security Groups policy as much as possible when gateway policy is not installed yet. <u>Don't</u> <u>forget to remove the restrictions afterwards.</u>

Once above three changes are **<u>effective</u>**, please move to next section.



NETWORK SECURITY GATEWAY – INTEGRATION STEPS

FIRST TIME WIZARD CONFIGURATION

Connect to https://<IP of Elastic Cloud Server Instance> using your browser.

	(i) This system is for authorized use only.
Check Point SOFTWARE TECHNOLOGIES LTD. Gaia Portal R80.40 ecs-bea4	Username: admin Password:

Once connected, follow the first time wizard user using admin as Username & admin as Password. Click LOGIN button.

Then set a New password for admin user and Confirm Password.

Create a SIC (Secure Internal Communication) Activation Key one time password that will be used to establish the trust between the Security Gateway and your Security Management Server.

Configure Host Name and the external interface private IP (tied to the EIP) its Subnet mask and Default Gateway. Then click on Go! button.

& Blink	
Authentication Configure the Gaia OS password for user "admin" New Password: Confirm Password: Onfirm Password: SIC Activation Key: Confirm Activation Key:	Network Configuration Host Name: ecs-gw2 IPv4 Addr (eth0): 192.168.10.250 Subnet mask: 255.255.255.0 Default Gateway: 192.168.10.1 Configurations
Automatically download Blade Contracts and other important Improve product experience by sending data to Check Point	t data (highly recommended) () () () () () () () () () () () () () (

Note: It is highly recommended to leave the first option activated. Full details on next page.

×



Information

It is highly recommended to keep this setting enabled, to ensure smooth operation of Check Point products. Keep this setting enabled, even if you do not currently have Internet connectivity. It determines your initial Security Management Server configuration. In some cases, the download process sends required minimal data of your Check Point installation to the Download Center. If you disable this setting, the device enters Offline mode, Blade Contracts and updates will not be downloaded automatically. Offline mode limitations SmartConsole protections, applications and other services may not be updated Gaia Portal Software Updates will not show relevant upgrade packages Trusted Certificate Authorities (CAs) list will not be updated Blade Contracts: Blade Contracts are annual blade licenses. Their renewal from the UserCenter is necessary for complete product functionality. If you disable this setting, Blade Contracts cannot be automatically updated from the UserCenter. If your local Blade Contract is missing or expired, severe limitations will apply, such as the Data Loss Prevention blade operating in bypass mode, the Compliance blade not executing scans, and an incorrect license report in SmartEndpoint. When a Software Blade is enabled in the SmartConsole, the Automatic Download setting will be enabled. This setting of a Security Management Server applies to all relevant Security Gateways. For full details and instructions, see sk94508. OK

🗱 Blink			Check Point
Authentication — Configure the Gaia OS pa New Password: Confirm Password:	assword for user "admin"	Network Configu Host Name: IPv4 Addr (eth0):	ecs-gw2 192.168.10.250 255.255.255.0
SIC Activation Key: Confirm Activation Key:	Finished suc	ccessfully	192 . 168 . 10 . 1
 Automatically downlo Improve product expension 	ad Blade Contracts and other importan rience by sending data to Check Point	t data (highly recommend	ed) 🚹 Go!

Once configuration is complete and finished successfully (process is immediate), click OK button.



Session is disconnected; please reconnect using newly defined password, then click LOGIN \rightarrow button.

	This system is for authorized use only.
Gaia Portal R80.40	Username: admin Password: Your session is invalid or you have logged out.

You are now logged to the Gaia OS WebUI console. Click OK button.

	41					
w mode: Advanced	-	System Overview		~ ×	Blades	^ × .
Overview	_	Check Point Sec	urity Gateway R80.40		Circure II	
Network Management					Firewall	
Network Interfaces		Kernel:	3.10.0-957.21.3cpx86_64		10-0	
ADD		Edition:	64-bit		IPSec VPN	
DHCP Server		Build Number:	294			
Hosts and DNS		System Uptime:	9 days 23 hours 37 minutes		IPS	
IPv4 Static Routes		Software Updates:	no new recommended updates dete	cted		
A NetFlow Export						
/stem Management					Application Control	
ŧ Time						
Cloning Group					URL Filtering	
SNMP					T	
Job Scheduler						
Mail Notification					Anti-virus	
Proxy						
Messages		F	Platform:		Anti-Bot	
Display Format		(Open Server			
Session			Message	of the Day	× Threat Emulation	
¢ Crash Data		Network Configur	ration	You have logged into	the system.	
System Configuration			•			
 System Logging 		Name	IPv4 Address IPv6 Add		Threat Extraction	
Host Access		eth0	192.168.10.250 -	OK		
Ivanced Routing		eth1	192.168.1.250 -	O Up	Anti-Spam and Mail	
	4	lo	127.0.0.1 -	O Up		
RGP					Data Loss Prevention	
IGMP						
IP Broadcast Helper						
PIM					Mobile Access	
Static Multicast Routes						
NP					Content Awareness	
P Reachability Detection						
DSPF		Throughput		^ ×	Packet Rate	~ × ~
Route Aggregation				E 10000		F 1200
nbound Route Filters				10000		
Route Redistribution				- 8000		- 1000
Routing Options				Se		CO0 77
olicy Based Routing				- 6000 문		- 800 2
outing Monitor				88		- 600 5
Management				4000		ets L
Change My Password				- 4000 distin		- 400
Jsers				Kib		
oles				- 2000		- 200
assword Policy						
thentication Servers				0		L
ystem Groups						
system Groups gh Availability						
nystem Groups n Availability /RRP						
Availability RRP dvanced VRRP						



Open Server 🔨 🛂 [6	
ecs-gwz		
**	System Overview	Blades AX
View mode: Advanced •		
(1) Overview	Check Point Security Gateway R80.40	Firewall
🛛 💑 Network Management	3 10 0-957 21 3cmx86 64	
Network Interfaces	Edition 64-bit	IPSec VPN
ARP ARP	Public Participation 204	
DHCP Server	Grand Hurris 9 days 23 hours 45 minutes	
Hosts and DNS	System Uptime: 5 days 25 hours 45 initiates	IPS
IPv4 Static Routes	Software Updates:	
NetFlow Export		Application Control
System Management		
🌣 Time		
Gloning Group		URL Filtering
SNMP		
💱 Job Scheduler		Anti-Virus
Mail Notification		
Spr Proxy	Platform:	
Mr Messages	Open Server	Anti-Bot
Section	openserver	
General Data		Threat Emulation
System Configuration	Network Configuration	x
System Logging	Name ID:/4 Aridress ID:/6 Aridress Link Status	Threat Extraction
Planetwork Access	eth0 19216810250 - (1) 10	Intel Extraction
Host Access	ath1 1921681350 (1) 100	
Advanced Routing		Anti-Spam and Mail
DHCP Relay		
BGP		Data Loss Prevention
B IGMP		
▲ IP Broadcast Helper		
PIM		Mobile Access
Static Multicast Routes		
RIP		Content Awareness
IP Reachability Detection		
OSPF	Throughput	Packet Rate
Route Aggregation	- E 500	Γ 180
Inbound Route Filters	500	Λ.
Route Redistribution	400	- 150
Routing Options	400	3
Router Discovery		<u>a</u> 120 P
Pointy based Routing Pointy based Routing	- 300	8 8
Set User Management		
Change Mu Deserved	-200	a
es Change My Password		
ez users		
Password Policy	· \/ \	V L
Authentication Servers	~ <u> </u>	_0
System Groups		

Please make sure DNS configuration is correct going to Network Management menu then Hosts and DNS section.

Open Server 🔨 🖬 🗎	
View mode: Advanced	Network Management + Hosts and DNS
Overview	System Name
🖃 📥 Network Management	Host Name: ecs-gw2
A Network Interfaces	Domain Name:
🗛 ARP	Apply
A DHCP Server	
Hosts and DNS	DNS
IPv4 Static Routes	DNS Suffix:
📥 NetFlow Export	
🖃 🍄 System Management	Primary DNS Server: 100.125.0.41
🛱 Time	Secondary DNS Server: 100.126.0.41
🄯 Cloning Group	Tertiary DNS Server:
🔅 SNMP	
🄯 Job Scheduler	Apply
🍄 Mail Notification	



Important note:

Make sure to delete local route going to Network Management menu then IPv4 Static Routes section.

Open Server ecs-gw2	\ 22 6								
View mode: Advanced	4	Network Management 🔸 🛙	Pv4 Static Routes						
Overview	^	IPv4 Static Routes —							
🖃 🚣 Network Management		Add Edit	Delete						
Network Interfaces		Destination Address	Next Hop Type	Rank	Local Scope	Gateways (Priority)	Monitored Protocols	Ping Comment	
ARP		Default	Normal	60	N/A	192.168.10.1 (None)	None	No	
DHCP Server		169.254.169.254/32	Normal	60	Off	192.168.10.254 (1)	None	No	
A Indead Data CROUTE A Netform Kapan A Netform Kapan A Netform Management A Time A Cloning Group SNMP Ø Job Scheduler									
 Mail Notification Proxy Messages 	- 1	K < Page 1	of 1 > >						Displaying 1 - 2 of 2
 Display Format Session Crash Data System Configuration System Logging 		Advanced Options — Ping Interval: Defa Ping Count: Defa Apply	ult 10 🔷 secon	ds					

Select 169.254.169.254/32 route, click Delete button.

Destination Address	Next Hop Type	Rank	Local Scope	Gateways (Priority)	Monitored Protocols	Ping	Comment
Default	Normal	60	N/A	192.168.10.1 (None)	None	No	
169.254.169.254/32	Normal	60	Off	192.168.10.254 (1)	None	No	
		_					
		Delete 169	9.254.169.254/32	route?			<u>*</u>
		?	Are you sure yo				
K < Page 1	of1 > >			ОК	Cancel		Displaying 1 - 2 of 2

If correct route selected, then click OK button.

Open Server ecs-gw2	× 23 B								
View mode: Advanced	++	Network Management IPv4 Static Routes	Pv4 Static Routes						
Network Interfaces		Add	Delete						
		Destination Address	Next Hop Type	Rank	Local Scope	Gateways (Priority)	Monitored Protocols	Ping Comment	
DHCP Server		Default	Normal	60	N/A	192.168.10.1 (None)	None	No	
Hosts and DNS									
IPv4 Static Routes									
NetFlow Export	_								
🖃 🍄 System Management									
🌣 Time									
🍄 Cloning Group									
SNMP									
🍄 Job Scheduler									
🍄 Mail Notification			1						
🍄 Proxy		K K Page 1	of1 > >						Displaying 1 - 1 of 1
🍄 Messages									
Display Format		Advanced Options -							
🌣 Session		Ping Interval: Defa	ult: 10 🔶 second	s					
🛱 Crash Data		Ping Country Defe	with 2 🔥						
System Configuration		Deta	iuliu 5 💌						
System Logging		Apply							

Don't forget to click Apply button.



CONFIGURATION & MANAGEMENT INTEGRATION

Once gateway OS configuration is finalized, next step is to create gateway object in Management Server and connect to it using SmartConsole or API.

Open your Management Server SmartConsole:

	🗊 Objects 🕶 🔮	Install Policy						Check Point' Smart Console'	
	Columns: 🕅 Ge	neral 🔻	*•	• 🗗 • 🗘 🔍 Search		T 1	0	Search	•
	Status Name	e IP	Version Active Blad	es Hardware CPU Usa	age Recommended Up	odates Recommended Jumbo		- 🃸 🗄 🗰 N	iew •
& SERVERS	0 6	ecs-mgmt 192.168.1.100	R80.40 🔺 🖽	Open server 🖉 💷	2% 1 update available	N/A	ОЫ	ect Categories	Y and
							A	Network Objects	17
							4	Services	514
POLICIES							:*	Applications/Catego	ries 7508
							*	VPN Communities	2
~							Ao	Data Types	62
LOGS & MONITOR							424	Users	1
								Servers	1
Ö							•	Time Objects	3
MANAGE & SETTINGS	Summary	Tasks Errors	Licenses				. 0.	UserCheck Interactio	ns 13
							0	Limit	4
		cs-mgmt			Management Blades	5			
	IPv4 Address:	192.168.1.1	00	Open server	Network Po	Logging &			
	OS:	Gaia			Managemen	int i Status			
	Version:	R80.40							
	License Status	N/A							
				~					
C.									
COMMAND				CPU: 2%					
				Memory: 42%					
?									
WHAT'S NEW				Device Information	n	Activate Blades			
	No tasks in progress	•		90	.84.199.177			No ch	anges admin

Click on ** button then Gateway... button:

*	e - ^ × s	r - 2	t - 0 0	Search	T
v	Gateway		Hardware	CPU Usage	Recommended Updates
Rŧ	Cluster	•	Open server	3%	1 update available
	VSX	•			
	More	•			

Click on Wizard Mode button



Fill Gateway name and select Cloudguard IaaS as Gateway platform. Fill the IP adress of the EIP (Elastic IP) public IP adress of your Elastic Cloud Server Security Gateway instance. Click Next button.



Check Point Gateway Installat	ion Wizard	? ×
General Proper	ties ame, platform and IP address.	
 General Properties Trusted Communication Blade Activation End 	Gateway name: Gateway platform: Gateway IP address:	
	Static IP address: IPv4: 90 . 84 . 177 . 71 Resolve from Name IPv6: Dynamic IP address (e.g. assigned by DHCP server)	
Check Point"		
	< Ba	ack Next > Cancel

Type SIC (Secure Internal Communication) One-time password created during Security Gateway wizard phase to create the trust between Management Server and Security Gateway.

Check Point Gateway Installat	ion Wizard		?	\times
Secure Internal	Communication Initializat	tion		
 General Properties Trusted Communication End 	 Initiate trusted communication Enter an one-time password the Internal Communication betwee Management Server. This one-time password must ling the 'Secure Internal Communication's Gateway's Name: One-time password: Trust State: Skip and initiate trusted communication 	now. hat will be used to initialize the Secure seen the gateway ecs-gw and the Security be the same one-time password you entered inication' tab when you installed and oftware on the gateway ecs-gw. ecs-gw unication later		
Check Point BOPTWARE TECHNOLOGIES LTD.		< Back Next >	Can	cel

Click Next button.



Status:	
	Initializing object (may take a moment)
	Abort

Wait few seconds until process complete.

Get Topology R	esults			×					
The topology wa The following tal Networks (or a g	as retrieved successfully. ole shows every interface fo roup of them) that reside be	und for the given mac hind each interface ar	hine. e also shown here.						
Name	IPv4 Address	IPV4 Netmask	IPv6 Address						
<u>⊡</u> ∽ eth0	192.168.10.200	255.255.255.0	N/A						
<u>⊡</u> ∽ eth1	192.168.1.200	255.255.255.0	N/A						
٢				>					
Legend									
New object	was created.								
 New object was created. Existing object was used. Close 									

Once complete, you will obtain the Security Gateway network topology. Click Close button.

Check Point Gateway Installat	ion Wizard		?	\times
Installation Wiz	ard Completion tion wizard has completed.			
 General Properties Trusted Communication End 	Gateway's Name: ecs-gw IPv4: 90.84.177.71 Platform: CloudGuard IaaS SIC: Trust established NAT: Disabled Active Blades: Firewall and NAT			
Check Point BOFTWARE TECHNOLOGIES LTD.	< Back	Finish	Cance	el

Click Finish button.



Configure the Network Security and Threat Prevention Blades you are willing to use (by example, Application Control, IPS, Antivirus, Anti-Bot,...)

Check Point Gateway - ecs-gw	1						8	×
General Properties	Machine —							
NAT HTTPS Inconstion	Name:	ecs-gw			Color:	Black	~	
	IPv4 Address:	90.84.177.71		Resolve from Name	Dynamic Address			
	IPv6 Address:							
Mail Transfer Agent ⊕ Logs	Comment:							
Fetch Policy Optimizations	Secure Internal	Communication:	Trust es	tablished	Communication			
Hit Count	Platform							
E. Ould	Hardware: Clou	udGuard IaaS 🛛 🗸	Version	R80.40 ~ OS	Gaia	\sim	Get	
	Network Security	v (1) Threat Preve	ention (0)	Management (0)	_			
	Access Contro	ol:	Advan O Dy	iced Networking & Clusteri namic Routing	ng:			
		N	1 Se	cureXL				
	Policy	Server	Qo	S				
		cess Control	🗌 Mo	nitoring				
		ina	Other:	to Loss Provention				
	Identity Av	vareness		ti-Spam & Email Security				
	Content Au	wareness						
	🖂 Ar	nti-Spam & E	mail Se	ecurity				
	Co	mprehensive and rastructure. Upda	multidim tes are in	ensional protection for cluded.	organizations' email			
					OK	C	ancel	



As best practices, you can change the following parameters to your security gateway.

Please go to $Logs \rightarrow Additional Logging menu and select When disk space is below 100 Mbytes, stop logging. option. In case very long no connectivity from Gateway to Management Server / Log Server, local logging will not impact production.$

Check Point Gateway - ecs-	gw2	🕜 🛛 🗙
 General Properties Network Management System Backup VPN Domain Proxy NAT Advanced HTTPS Inspection HTTP/HTTPS Proxy ICAP Server Platform Portal UserCheck Mail Transfer Agent Logs Eccl Storage Additional Logging Fetch Policy Optimizations Hit Count Other 	Log Forwarding Settings Groward log files to Log Server: Log forwarding schedule: Iog Files Create a new log file when the current file is larger than 1000 MBytes Create a new log file on scheduled times Manage Advanced Settings When disk space is below 100 MBytes, stop logging. Reject all connections when logs are not saved. Update Account Log every 3600 Seconds Turn on QoS Logging Detect new Citrix ICA application names Include TCP state information: Never	
	ОК С	ancel





Please go to Other \rightarrow Connection Persistency menu and select Keep data connections option. In case of policy push, data connections will be not be rematch after new policy push avoiding cut in on-going data traffic previously authorized but new traffic only.



Check Point Gateway - ecs-	gw2		? ×
General Properties Vetwork Management System Backup VPN Domain Proxy NAT Advanced HTTPS Inspection HTTP/HTTPS Proxy	Capacity Optimization Calculate the maximum limit for concurren	nt connections current connections to: 25000	A V
ICAP Server Platform Portal	VPN Capacity Optimization		
UserCheck	Maximum concurrent IKE negotiations:	1000	
Logs	Maximum concurrent tunnels:	10000	
Additional Logging	Firewall Policy Optimization		
Fetch Policy Optimizations	Enable drop optimization		
Coptimizations 			
			OK Cancel

Please go to Optimizations menu in Capacity Optimization section and select Automatically option to calculate the maximum limit for concurrent connections. Click OK button to finalize the gateway object configuration.

Once all necessary changes are done, please make sure to Publish them to the Management Server.

9 T	Dbjects	 Install Policy 								(Discard Session - 22	
	Columns:	General	-						*- `	X Scripts - C Actions	Monitor Q Search	Publish (Ctrl + S)
888	Status	Name	IP	Version	Active Blades	Hardware	CPU Usage	Recommended Updates	Recommended Jumbo		Comments	Publish will make your changes
GATEWAYS & SERVERS	-	ecs-gw	90.84.177.71	R80.40		CloudGuard laaS						
	0	🖷 ecs-mgmt	192.168.1.100	R80.40	⇒ ⊞	Open server	4%	1 update available	N/A			
SECURITY POLICIES												
LOGS & MONITOR												
MANAGE & SETTINGS												
2	Zoom	ed viev	V									

😤 x 🗙 🕿 Scripts x 📫 Actions x 🗘 Monitor 🔍 Search	
	Publish (Ctrl + S)
ended Jumbo Comments	Publish will make your changes available to all

Click Publish top right button on SmartConsole client.



le		×							
Click 'Publish' to make these changes available to all.									
You are required to provide a session name before you can publish your changes:									
Session name:	Session name: admin@23/03/2021								
Description:	First configuration for ecs-mgmt Gateway								
	Total draft changes: 22								
	Publish Cance	el							
icates a Sessior	n Name and Description then click Publish button.								
P	ublishing. It'll only take a moment								
	Click 'Pub available f You are require your changes: Session name: Description:	Click 'Publish' to make these changes available to all. You are required to provide a session name before you can publish your changes: Session name: admin@23/03/2021 Description: First configuration for ecs-mgmt Gateway Total draft changes: 22 Publish Cance Ficates a Session Name and Description then click Publish button.							

Wait few seconds to make it effective.

Prepare a Security Policy you will push to the Security Gateway. Click Install Policy top left button on SmartConsole.

⊡ : - ∣	🗊 Objects 🛛 🕑 Install Policy						💮 Discard Session 👻	22 Publish	
	Standard +								
888	** • Access Control				+	= .= × Ξ ÷	≡ - Install Policy 🖬 A	Search for IP, ob	ect, action,
GATEWAYS & SERVERS	Policy	No.	Name	Source	Destination	VPN	Services & Applications	Action	Track
SECURITY	Threat Prevention	1		Management_Station	ecs-gw ecs-gw2 win2k19-srv	* Any	* Any	🔁 Accept	🗎 Log
POLICIES	Exceptions	2		ecs-mgmt ecs-gw ecs-gw2	ecs-gw e ecs-gw2 e ecs-mgmt	* Any	* Any	🕀 Accept	🗐 Log
LOGS & MONITOR	Policy	3		💭 win2k19-srv	 Zoom Services Webex Services Dropbox Services 	* Any	* Any	Drop S Blocked Messa	Detailed Log Accounting
MANAGE & SETTINGS	Shared Policies	4		win2k19-srv	* Any	* Any	High RiskAnonymizer	Drop S Blocked Messa	Log
	Policy Gateways Excentions	5		ecs-gw ecs-gw2 win2k19-srv	* Any	* Any	* Any	Accept	Detailed Log Accounting
	Inspection Settings	6	Cleanup rule	* Any	* Any	* Any	* Any	Drop	E Log





Install Policy						9 │□ ×
				L St	andard	
			✓ ✓	Control	Changes data is not available	
			View	changes C Policy Targets	Q Search	Install on 1 gateways out of 2
🗖 Sta	a Name	▼ IP	Version	Last Installation Date	Со	
	🥑 🛛 📼 ecs-g	jw2 90.84.1	R80.40	-		
	🤣 📼 ecs-g	yw 90.84.1	R80.40	07/04/2021 23:44		
Install Mod	do.					
Install wood	n each selected o	ateway independer	atly			~
For g	gateway clusters, i	if installation on a	cluster memb	er fails, do not install on that	t cluster.	
Install of	n all selected gate	ways. If installation	n on a gatewa	y fails, do not install on all ga	ateways of the same version.	
						Install Cancel

Select the target Security Gateway for policy installation and click Install button. Then wait a moment until policy installation is complete.

WHAT'S



🤣 Policy installation - Standard Succeeded 🔻

Details



GATEWAY LICENSING

A security gateway comes with 15 days embedded evaluation licenses to leave you time to install definitive license (process described at next page). The below information give you all you need to know about Cloudguard Network Security licensing model.

Description

CloudGuard Network Security Gateway provides advanced threat prevention and automated cloud network security through a virtual security gateway, with unified security management across all your public cloud and private cloud environments

Service Specifications

Includes Advance threat preventions – IPS, Identity Awareness, App Control, Anti-Virus, Anti-Bot, URL Filtering, VPN, threat emulation*, and threat extraction*, Zero-Day* and ThreatCloud. *with NGTX subscription.

References

CloudGuard Network is licensed by the number of virtual cores (vCores) assigned to the virtual machine running it. The license supports CloudGuard Network gateways running on a wide variety of public and private cloud vendors.

- NGTP SKU: CPSG-VSEC-NSX-BUN-NGTP-XY where X is the number of years of services
- NGTX SKU: CPSG-VSEC-NSX-BUN-NGTX-XY where X is the number of years of services

Example:

• 1 x CPSG-VSEC-NSX-BUN-NGTP-3Y = 1 x CloudGuard Network virtual core for VMware ESXi, Hyper-V, KVM Gateway. Annual subscription for 3 years.

Licensing instructions for CloudGuard Network Security:

- CloudGuard Network Gateway is licensed by the number of virtual cores (vCores) assigned to the virtual machine running it.
- The License supports CloudGuard Network Gateways running on public and private cloud.
- Public Cloud: Amazon Web Services (AWS); Microsoft Azure; Google Cloud; Oracle Cloud Infrastructure; Alibaba Cloud; IBM cloud; Huawei; Yandex; and more.
- Private Cloud / SDN: VMware Esxi; VMware NSX; Nutanix.
- Check Point CloudGuard Network Gateway license is pool based (<u>sk109713</u>):
- You can add additional licenses to the pool
- The license pool is deployed on Check Point management server and will be automatically assigned to CloudGuard Network Security gateways

Renewal:

• The renewal subscription license should match the number of vCores in the subscription license

More licensing data:

- Customer can purchase addition software blades and deploy them on specific CloudGuard Network Gateways
- Multi-Domain-Management (MDM) every license pool should be issued with the CMA IP and will be attached to the CloudGuard Network Security gateways which are managed by that CMA
- NGTX cloud inspection quota is 10 000 files/vCore/month

Note: Please make sure to update your Service Contract on your management following the integration of new Security Gateway.

- What is a Service Contract File?
- Download Contract File



	🔽 😭 Objects 🕶 🔮 Install Po	licy		
16	Manage policies and layers	Ctrl+O		
≣	Open Object Explorer	CtrI+E		
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ŵ	Discard session	Ctrl+Alt+S	R80.40	 E8
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٢	Install policy	Ctrl+Shift+Enter	1	
	Verify Access Control Policy			
	Install database			
	Uninstall Threat Prevention Policy.			
	Management High Availability		1	
	Manage licenses and packages			
	SmartProvisioning			
	SmartEndpoint			
	Global properties			
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	About Check Point SmartConsole			
0	Help	F1		
⊡ +	Exit	Alt+F4	1	

To install definitive license on your Security Gateway instance, please connect to your Management Server using SmartConsole client. Go to menu \rightarrow Manage licenses and packages...



Click OK button



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Click Licenses & Contracts tab, then go to License And Contract Repository section. Select the proper Unattached license, right click on it then select Attach License... contextual menu.



Attach Licenses	?	×
Attach license(s) to:		
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ecs-gw		
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Install Security Policy once again and check your instance status as below.

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POST INSTALLATION OPERATIONS & JUMBO HOTFIX UPDATE

Once definitive license has been applied to the Security Gateway, you'll be able to update to the latest General Availability Jumbo Hotfix that is mandatory to apply after first installation and most recommended to apply every time a new GA release is available.

As reminder, Supported Version is R80.40 GA Take 294 <u>plus Jumbo HF Take_94</u> or above Jumbo HF GA releases.

File Name: Check_Point_R80_40_JUMBO_HF_Bundle_T94_sk165456_FULL.tgz Release Date: 07-Mar-2021

For more information about Jumbo Hotfix Accumulator for R80.40, please refer to solution ID: <u>sk165456</u>

To install Jumbo Hotfix on your Security Gateway, please connect to your Security Management Server using your SmartConsole to have a central deployment (or using Gaia WebUI directly on your Security Gateway).

0 : -	🎁 Objects 🕇	🛛 🕙 Install Policy					🗑 Discard	Session 🝷 🕤 Publisi					
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MANAGE & SETTINGS	Summa	ry Tasks	Errors	Licenses						Copy As Image	F		

Click on Gateway & Servers tab. Click on the target Security Gateway then right click \rightarrow select Actions \rightarrow Install Hotfix... on contextual menu.

Insta	II Hotfix					₽ 🗖	×
	Hotfix Install Recomm Install Specific Gateways	nended Jumbo Hot Hotfix	fix		Validate		
	Name	IP	Version	Currently Installed Jumbo	Recommended Jumbo Hotfix		
	📼 ecs-gw	90.84.177.71	R80.40	N/A	Check_Point_R80_40_JUMBO_HF_Bundle_T94_sk165456_FULL	.tgz	
	4					Þ	
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Select the target Security Gateway with target Recommended Jumbo Hotfix and click on Install button.



Zoomed view

	ecs-gw Recent Tasks	-H 😧 X	
	All All Install software package - Check_Poil 33% in progress	1 11 nt_R80_40_J Clear	CloudGuard laas
	15:14 by admin Policy installation - Standard Installation succeeded on ecs-gw	Details Clear	CPU: 13% Memory: 28%
WHAT'S NEW	15:13 by admin Install software package - Check_Point_R80	Details _40_JUMBO_HF_Bundle_T94_sk	Device & License Information

On bottom right of the SmartConsole client, click on the installation task to have more details about progress and full details (as below) clicking on Details button.

Install Software Packa	ge Task Details			0 □ ×
Task Details Task: Initiator:	Install software package - Check_Point_R80_40_JUMBO_HF_Bundle_T94_sk165456 admin	_FULL.tgz		
Start Time: Last Updated:	23/03/2021 15:14 23/03/2021 15:15			
Task Progress Status: 50% i	n progress			
Name	Step	Status	More Information	
📼 ecs-gv	Installing the package (3/6)	100% 🗘 in	progress	
				Close



nstall Software Packa	ge Task Details			₽ □ ×
Task: Task: Initiator: Start Time: Completed: Task Progress Status: 📀 su	Install software package - Check_Point_R80_40_J admin 23/03/2021 15:14 23/03/2021 15:24 succeeded	UMBO_HF_Bundle_T94_sk165456_FULL.tgz		
Name ecs-gw	Step v Cleaning up (6/6)	Status	More Information	
				Close

Once finalized, succeed and you do not want check detailed status anymore, just click Close button.



MONITORING CHECKS

After Hotfix installation, you can check that Security Gateway instance is operating correctly using Monitoring view. To get access to that detailed information, click on Device & License Information... on the desired Security Gateway.



You can now review in more details its Device & Licensing information.

Device & License Information - ecs-gv	v		• □ ×
↔ Device Status	< > C 🕯		
 License Status System Counters Traffic 	ecs-gw	IP Address: 90.84.177.71 Version: R80.40 OS: Gaia Kernel Version: 3.10 Up Time: 1 days and 3 hours System Information Network Activity	^
	Firewall	Security Policy: Standard Installed On: Wed Mar 24 17:17:57 2021	>
	⊘ IPS		>
	OURL Filtering		>
	Application Control		>
	⊘ Anti-Bot & Anti-Virus		>

Device & License Information - ecs-gw				0 □ ×
	ССС - GV IP: 90.84.177.71 СК: С4F8C3B81F52 SKU: СР5G-СР5М-ЕVAL	Account ID: Support Level: Support Expiration:	0006649465 N/A N/A	≡ Options ∨
	Blade Name	License Status	Expiration Date	Additional Info
	Firewall	Active	Apr 9, 2021 (Evaluation)	
	IPSec VPN	Ø Available	Apr 9, 2021 (Evaluation)	
	IPS	Active	Apr 9, 2021 (Evaluation)	Contract will expire in 16 days.
	Polication Control	Active	Apr 9, 2021 (Evaluation)	
	🗳 URL Filtering	Active	Apr 9, 2021 (Evaluation)	
	O Content Awareness	⊘ Available	Apr 9, 2021 (Evaluation)	
	😌 Anti-Virus	Active	Apr 9, 2021 (Evaluation)	
	😫 Anti-Bot	Active	Apr 9, 2021 (Evaluation)	
	🕄 Threat Emulation Cloud	⊘ Available	May 9, 2021 (Evaluation)	
	💕 Threat Extraction	⊘ Available	May 9, 2021 (Evaluation)	
	🔀 Anti-Spam & Email Security	⊘ Available	Apr 9, 2021 (Evaluation)	
	🕒 Data Loss Prevention	⊘ Available	Apr 9, 2021 (Evaluation)	
	🗢 Mobile Access	⊘ Available	Apr 9, 2021 (Evaluation)	



In addition, if needed you can perform an automated health check of a Gaia OS based system Security Gateway please consult Solution ID: $\frac{sk121447}{2}$

Find some example of dashboard generated running the script.

Current Script Release: 5.0 07-10-2018									
Physical System Checks									
Category	Title	Result							
System	Uptime OS Version	INFO INFO							
NTP	NTP Daemon	WARNING							
Disk Space	Free Disk Space	ок							
Memory	Physical Memory Swap Memory Hash Kernel Memory (hmem) System Kernel Memory (smem) Kernel Memory (kmem) Memory 30-Day Average Memory 30-Day Peak	WARNING OK OK OK OK OK OK							
CPU	CPU idle% CPU user% CPU system% CPU wait% CPU interrupt% CPU 30-Day Average CPU 30-Day Peak	OK OK OK OK OK WARNING							
Interface Stats	RX Errors RX Drops TX Errors TX Drops RX Missed Errors TX Carrier Errors	OK OK OK OK OK							
Misc. Messages	Known issues in logs	WARNING							
Processes	Zombie Processes Process Restarts	ок ок							
Core Files	Usermode Cores Present Kernel Cores Present	ок ок							
Check Point	CPInfo Build Number CPUSE Build Number CPView History Status	WARNING WARNING OK							
Debugs	Active Debug Processes Debug Flags Present TDERROR Configured	OK OK OK							

Firewall Application Checks								
Category	Title	Result						
Fragments	Fragments	ок						
Connections Table	Peak Connections Current Connections NAT Connections	ок ок ок						
SecureXL	SecureXL Status Accept Templates Drop Templates Aggressive Aging	OK OK INFO OK						
CoreXL	CoreXL Status SND/FW Core Overlap SND/FW Core Utilization Dynamic Dispatcher	OK OK OK WARNING						
Logging	Local Logging	ОК						

Finally yet importantly, make sure logs sent from Security Gateway are received from Management Server / Log Server. If it's not the case, most of time blocked connectivity is the root cause (don't forget to check Security Groups policy on Flexible Engine side).

<u>©:</u> -	🛛 😭 Objects 👻 🛛 🕙 Install Policy								🛱 Discard S
	General Overview	Logs ×	ł						
	★ Queries 🔾	> ભ ભ	. [🔍 🕓 Last 7 Daj	ys 🔹 Enter search query	/ (Ctrl+F)			
& SERVERS	Showing first 50 results (185 ms) out of at least 205 results								
	Time			Origin	Source	Source User	Destination	Service	Access Rule Number
SECURITY POLICIES	Today, 15:38:02	III 🕀 🍾	t	📼 ecs-gw	ecs-gw (192.168.10.200)		🕮 dns.google (8.8.8.8)	domain-udp (UDP/53)	3
	Today, 15:38:02	III 🤁 🍾	<u>†</u>	📼 ecs-gw	ecs-gw (192.168.10.200)		www.free.fr (212.27.48.10)	echo-request (ICMP)	3
	Today, 15:38:02	III 🕀 🍾	<u>†</u>	📼 ecs-gw	ecs-gw (192.168.10.200)		🕮 dns.google (8.8.8.8)	domain-udp (UDP/53)	3
LOGS & MONITOR	Today, 15:37:39	III 🕀 🍾	Ŧ	📼 ecs-gw	Management_Station		ecs-gw (192.168.10.200)	ssh (TCP/22)	1
	Today, 15:35:43	III 🕀 🍾	<u>†</u>	📼 ecs-gw	ecs-gw (192.168.10.200)		productcoverage.checkpoint.com (194.29.39.10)	https (TCP/443)	3
	Today, 15:35:43	- III 🕀 🍾	<u>†</u>	📼 ecs-gw	ecs-gw (192.168.10.200)		🕮 dns.google (8.8.8.8)	domain-udp (UDP/53)	3
ö	Today, 15:35:42	0 ×	Ŧ	📼 ecs-gw					
	Today, 15:29:07	111 ×		ecs-gw					

You can finalize the testing process by checking Check Point Threat Prevention configuration effectiveness using <u>CheckMe Instant Security Check</u> after configuring NGTP (Next Generation Threat Prevention) Blades in Prevent Mode (Application Control blocking High Risks and Anonymizers, IPS, Antivirus and Anti-Bot).

END OF THE DOCUMENT