

Cloud Services User Manual



Version 5.0

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Document Changelog

Version	Date	Notes
1.0	2016	The document was created
2.0	2018	The document was updated
3.0	2019	The document was updated
4.0	27.05.2022	Chapters Amazon Web Services, Google Cloud Platform, and Azure were updated.
5.0	11.11.2022	The Azure chapter, Create the Storage Account and Container section were updated.

. Introduction

This User Manual is intended to provide short guidance when using the Endpoint Protector Server in Amazon Web Services or Google Cloud Platform.

Important: This document is not intended as a step-by-step guide to creating an AWS or GCP account. The precondition to already having such accounts in place and understanding the bases of how these 3rd party services are the responsibility of each Administrator.

- Amazon Web Services the Endpoint Protector AMI is provided as an Amazon EC2 instance
- Google Cloud Platform the Endpoint Protector image is provided as a *.tar.gz.
- Azure the Endpoint Protector image will be uploaded into your account.

Note: For information related to the use of Endpoint Protector – main components, features, and functionality, please refer to the **Endpoint Protector User Manual**.

2. Amazon Web Services

2.1. Obtain the Endpoint Protector AMI

Endpoint Protector is not generally available in the AWS Marketplace. To have access to the Amazon Machine Image (AMI), you need to contact your Endpoint Protector Representative directly or submit a request on our <u>website</u> by providing information such as the AWS Account no. and Region and Availability Zone.

You will receive a reply from an Endpoint Protector Representative, notifying you when the Endpoint Protector Amazon Machine Image has been shared with your account.



2.2. Launch the EC2 image

As the Endpoint Protector image has already been shared with you, this process is similar to any other EC2 launch.

To launch the EC2 image, follow these steps:

- 1. Go to Services: EC2 and select your region
- 2. Go to **Images: AMIs** and select the type of the Private image and search for **Endpoint Protector**

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Spapshots New		Applicated from an easily 1 for period manager from a more an Applicated		
Lifecycle Manager New	Deprecation time			

3. Right-click and select Launch Instance

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▼ Instances		Edit AMI permissions									
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Instance Types Launch Templates	Details Storage Tags	Deregister AMI									
Spot Requests	AMI ID	Manage image optimization	e		Platform details			Root device type			
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Lifecycle Manager New	Deprecation time										
▼ Network & Security											

- 4. Enter the Name and Create tags as per your policies;
- 5. Select an Instance Type;

Note: For help in selecting the instance type that best fits your needs, contact **support@endpointprotector.com**.

6. Select an available key pair or create a new key pair;

If you select to use a key pair you might have to share it with our Support Team for support requests. In this case, ensure it is used only for this instance. We would recommend selecting the option **Proceed without a Key Pair** and then click **Launch Instances**.

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Amazon Machine Image (AMI) Endpoint Protector 5.5.0.0 Virtual Appliance ami-058998c5dcaf90365 Published Architecture Virtualization Root device ENA Enabled 2022-03- x86_64 hvm type 2022-03- x86_64 hvm type Yes 21T09:22:45.0 ebs 002 Vertical and the community restance type info Instance type info Instance type info Compare instance types	iar includes 750 X micro in the ro is unavailable) ier AMIs per iorage, 2 million and 100 GB of tet	Free tier: In your first year includes 75 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailab instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 millic IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet		Ion and OS Images	ing 1000s of application to the second secon	full catalog includii	Q Search our
Published Architecture Virtualization Root device ENA Enabled 2022-03- x86_64 hvm type Yes 21T09:22:45.0 ebs 002 002 002 ebs 002 Instance type info Instance type info Compare instance types Family: 2.2 vCPU 4.68 Memory On-Demand Unixox pricing: 0.0464 USD per Hour Compare instance types	Launch instance	Cancel Launch	Q Browse more AMIs Including AMIs from AWS. Marketolace and		Appliance	e Image (AMI) tor 5.5.0.0 Virtual / caf90365	Amazon Machine Endpoint Protec ami-058998c5de
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 Key pair (login) Info You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance. Key pair name - required 			ected key pair before you launch	are that you have access to the se	D per Hour	is pricing: 0.0644 USD jin) Info bair to securely connec ulired	 On-Demand Window Key pair (log You can use a key p the instance. Key pair name - req

7. Configure the Network section:

 Network settings 			Edit			
Network						
Subnet	which they arrived					
Auto-assign public IP Enable						
Security groups (Firewall) Info A security group is a set of firewall rules that co instance. We'll create a new security group called	ontrol the traffic for your in: ' launch-wizard-7 ' with	stance. Add rules to allow specifi the following rules:	c traffic to reach your			
Allow SSH traffic from Helps you connect to your instance	Anywhere 0.0.0.0/0	•				
Allow HTTPs traffic from the interne To set up an endpoint, for example when c	t creating a web server					
Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server						
Rules with source of 0.0.0.0/0 all security group rules to allow acce	low all IP addresses to a ess from known IP addre	ccess your instance. We reco esses only.	mmend setting $ imes$			

- 8. Edit Network Section and provide the following information:
 - Select a VPC and a Subnet
 - Enable the Auto-assign public IP
 - Select Create security group and then provide a name and description
 - Remove the existing Inbound rules
 - Add two new Inbound security group rules:

Type **HTTPS**, Protocol **TCP**, Port range **443**, Source type **Custom**, Source 0.0.0.0/0 (mandatory)

Type **HTTP**, Protocol **TCP**, Port range **80**, Source type **Custom**, Source 0.0.0.0/0 (optional)

 Network settings 		
VPC - required Info		
republications	(defau	lt) 🔻 C
Subnet Info		
In performen		Create new subnet
Auto-assign public IP Info		
Enable		•
Firewall (security groups) info A security group is a set of firewall rules that instance.	control the traffic for your instance. Add rules	to allow specific traffic to reach your
• Create security group	 Select existing security group 	up
Security group name - required		
My FPP Appliance		
This security group will be added to all netw 255 characters. Valid characters: a-z, A-Z, 0-5	ork interfaces. The name can't be edited after t 9, spaces, and:/()#,@[]+=&;{}!\$*	the security group is created. Max length is
Description - required Info		
My EPP Security Group		
Inbound security groups rules		
Security group rule 1 (TCP, 443)	, 0.0.0/0, HTTPS)	Remove
Туре Ілбо	Protocol Info	Port range Info
HTTPS v	ТСР	443
Source type Info	Source Info	Description - optional Info
Custom	Q Add CIDR, prefix list or security	HTTPS
	0.0.0.0/0 ×	
Security group rule 2 (TCP, 80,	0.0.0.0/0, HTTP)	Remove
	Protocol info	Port range info
HTTP V	тср	80
Source type Info	Source Info	Description - optional Info
Custom 🔻	Q Add CIDR, prefix list or security	HTTP
	0.0.0/0 ×	
Rules with source of 0.0.0.0/0 a security group rules to allow ac	allow all IP addresses to access your instances from known IP addresses only.	ance. We recommend setting $ imes$
Add security group rule		

9. The Storage section does not require any changes;

Configure storage Info	Advanced			
1x 100 GIB gp2 Root volume				
(i) Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage				
Add new volume				
0 x File systems	Edit			

10. On the Summary section click Launch Instance;

Summary
Number of instances Info
1
Software Image (AMI) read more
Virtual server type (instance type) t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 100 GiB
Free tier: In your first year includes 750 × hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet
Cancel Launch instance

11. Wait for the instance to start - this might take a few minutes while the **Status Checks** appear as **Initializing**.

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 ▼ Images AMIS New AMI Catalog ▼ Elastic Block Store 	Hostname type IP name: a fill the second sec	Private IP DISS name (IPv4 only) O I I I I I I I I I I I I I I I I I I I	Answer private resource DNS name IPv4 (A) Auto-assigned IP address Of the second

2.2.1. Request an Elastic IP

This step is required so the Endpoint Protector Clients can communicate with the same IP Address in case of an instance restart. Without an Elastic IP (Static IP) the instance will assign a new IP address every time it is restarted and the Endpoint Protector Clients have to be reinstalled.

To request an Elastic IP, go in the AWS Management Console to the option **Network & Security**, **Elastic IPs,** and click **Allocate New Address**.

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esource Groups 8	Tag Editor 🛛 🔟 IAM			
C2 > Elastic	IP addresses > Allocate Elastic IP addr	ess		
llocate	Elastic IP address			
Elastic IP	address settings Info			
Network Bor	der Group Info			
Q us-east	-1		×	
Public IPv4 a	ddress pool			
Amazon'	pool of IPv4 addresses			
Public IP pools for	/4 address that you bring to your AWS acond nd) Learn more 🔀	count (option disabled becau	se no	
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Global static	IP addresses			
AWS Global Ac can help impro	celerator can provide global static IP addresses t ve the availability and latency for your user traff	hat are announced worldwide usir ic by using the Amazon global net	ng anycast from AWS edge loo twork. Learn more 🔀	ations. This
Granta a	colorator [7]			
Create a	ceterator			
Tags - opt	ional			
A tag is a label your resources	that you assign to an AWS resource. Each tag co or track your AWS costs.	nsists of a key and an optional val	ue. You can use tags to searcl	n and filter
No tags asso	ciated with the resource.			
Add new	tag			
You can add u	to 50 more tag			
			Cancel	Allocate

1. Associate the **Elastic IP** with your Endpoint Protector Instance.

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🔯 Resource Groups & Tag Editor 🛛 🔤	IAM					
New EC2 Experience Tell us what you think	 Elastic IP address allocated successfully. Elastic IP address 18.204.166.50 			Associate this Elastic I	P address X	
EC2 Dashboard						٦
EC2 Global View	Elastic IP addresses (1/1)		C	Actions Allocate Elas	stic IP address	
Events	Q Filter Elastic IP addresses			View details	1 > 💿	
Tags	Public IPv4 address:	Clear filters		Release Elastic IP addresses	1	
Limits				Associate Elastic IP address		
▼ Instances	V Name			Disassociate Elastic IP address		ec
Instances New	Z –	Public IP	reprint CT+COLORAD	Update reverse DNS	-	1
Instance Types						1
Launch Templates						
Spot Requests						
Savings Plans						1
Reserved Instances New	18.204.166.50					
Dedicated Hosts	Cummany Tage					
Scheduled Instances	Summary Tays					
Capacity Reservations						
▼ Images	Summary					
AMIS New		_				
AMI Catalog	Allocated IPv4 address	Type	Allocation ID	Reverse DNS record		
Elastic Block Store		-	-			
Volumes New	Association ID	Scope	Associated instance ID	Private IP address		
Snapshots New		D inc				
Lifecycle Manager New	Network interface ID	Network interface owner account ID	Public DNS	NAT Gateway ID		
	-	-	-	-		
Network & Security	Address pool	Network Border Group				
Security Groups	Lu Amazon	us-east-1				

2. Select the **Endpoint Protector Instance** from the dropdown list, the **Private IP address**, and then click **Associate**;

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Reso	urce Groups & Tag	Editor 🛅 IAM						
EC2	> Elastic IP a SSOCIATE ose the Instance	ddresses > Associate Elastic IP add Elastic IP address or network interface to associate to t	ress his Elastic IP address (3)				
	Elastic IP ado	ress: 10.201 Hellin						
F	Resource type	esource with which to associate the Elastic I	P address.					
	Instance							
	previously	associated Elastic IP address will be o	disassociated but still allocated to y	our account. L	earn more	2		
[Q HOLDER BAR	A field i	×	C				
F	Private IP address The private IP addre	ss with which to associate the Elastic IP add	ress.					
[Q	0	×					
F	Reassociation Specify whether the Allow this Ela	Elastic IP address can be reassociated with stic IP address to be reassociated	a different resource if it already associate	d with a resource	h.			
				Cancel	Asso	ociate		

The Elastic IP is now associated with your Endpoint Protector Instance. After a few minutes, the Endpoint Protector Instance will be running associated with the Elastic IP.

2.2.2. Secure your Instance

We recommend further securing your Instance by making all possible settings in the AWS Interface under the option **Security Groups**.

3. Google Cloud Platform

3.1. Obtain the Endpoint Protector GCP image

Endpoint Protector is not available from the default images on the Google Cloud Platform.

To obtain it, you will need to follow the process hereby described.

Note: This part of the process is similar to uploading any other custom image in the Console.

3.2. Download the image

The Endpoint Protector image can be downloaded from the link provided by your Endpoint Protector Representative. If this image has already been obtained, you can skip this step.

3.3. Create a bucket

To upload the Endpoint Protector image to the Google Cloud Platform, create a bucket:

 On the Google Cloud Platform Console, go to the <u>Cloud Storage Browser page</u> and click Create bucket;

=	Google Cloud Platform	💲 EPP Test 👻		<u>्</u> २	Search Products, r	esources, docs (/)		~		5	9 🕦 🗄	0
	Cloud Storage	Browser	CREATE BUCKET	DELETE CREFRESH						HELP ASSIST	ANT SHOW INFO I	PANEL
	Browser	🖶 Filter - Filter bu	uckets								0	
~	Monitoring	□ Name ↑		Created	Location type	Location	Default storage class	Last modified	Public access	Access control 🔞	Protection @	Lit
		endpointpro	otector5500	Feb 28, 2022, 10:27:58 AM	Region	europe-central	Standard	Feb 28, 2022, 10:27:58 AM	Not public	Uniform	None	NCE
\$	Settings	epp-5300		Mar 22, 2021, 11:09:32 AM	Multi-region	eu (multiple re	Standard	Mar 22, 2021, 11:09:32 AM	Not public	Uniform	None	Ne
		epp-testqa		Nov 14, 2018, 4:27:21 PM	Multi-region	eu (multiple re	Multi-regional	Nov 14, 2018, 4:27:21 PM	Subject to object ACLs	Fine-grained	None	NCE
		epp5400		Sep 13, 2021, 1:47:50 PM	Multi-region	eu (multiple re	Standard	Sep 13, 2021, 1:47:50 PM	Not public	Uniform	None	NCE
		epp5500-bu	ucket	Mar 1, 2022, 9:40:36 AM	Region	europe-central	Standard	Mar 1, 2022, 9:40:36 AM	Not public	Uniform	None	NCE
	Marketplace											
¥	maniethace											
E	Release Notes											
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- 2. To create a bucket, provide the following information and then click Create:
 - Name add a name for the bucket

- Storage select the standard storage class
- Location select a location to store the image

=	Google Cloud Platform	✿ EPP Test ▼	Q. Search Products, resources, docs (/)	B 0 1 : 🚺
	Cloud Storage	← Create a bucket		🖻 HELP ASSISTANT 🛛 <
	Browser	Name vour bucket	Good to know	
4	Monitoring	Pick a globally unique, permanent name. Naming guidelines	ELocation pricing	
¢	Settings	endpointprotectorbucket-test	of your bucket. Pricing details	
		Tip: Don't include any sensitive information	Current configuration: Multi-region / Standard	
		V LABELS (OPTIONAL)	Item Cost ue (multiple regione in United States) \$0.026 per GR-month	
		CONTINUE	aa (manpie regiona in onnea oraxea) 00-020 per Germoniti	
		Choose where to store your data Lacation us (multiple regions in United States) Location type: Multi-region Choose a default storage class for your data Default storage class Extended Choose how to control access to objects Padia access greentilian. Off Access could Uniter Choose how to protect object data Protection tools: None Data encryption: Google-managed key Country Calify Cali		
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ť	Release Notes			
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3. On the newly created **Bucket details** page, click **Upload files** and select the Endpoint Protector image file <u>received from Endpoint Protector</u>.

Note: Depending on the size of the compressed image and the speed of the network connection, the upload can take several hours.

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← Bucket details		🖱 REFRESH 🛛 🖻 HELP ASSISTANT 🖈 LEARN
Bucket details endpointprotectorbucket-test Leation Strange class Public access Protection Us (multiple regions in United States) Standard Not public Norre OBJECTS ONFROURATION PERMISSIONS PROTECTION LIFECYCLE Buckets 3 endpointprotectorbucket+et Us (multiple regions) UFLOAD FOLDER CREATE FOLDER MANAGE HOLDS DOVINELOAD DELETE Fifter by name prefix only - Fifter Fifter objects and folders Norres State Type Creater Storage class Last modified Public access Version history Version his	Encryption	C REFRESH IP HELP ASSISTANT LEARN
Your bucket is ready. Just add data		
	C CLUM Medical product of word y C CLU	Control of Contr

3.4. Import the image to the custom image list

After the Endpoint Protector image has been uploaded to Google Cloud Storage, import the custom image list.

1. On the Google Cloud Platform Console, go to the Image page and click Create image;

=	Google Cloud Platform	🕽 EPP Test 👻	Q Search	Products, resou	rces, docs (/)					3 0 <u>2</u> ; T
۲	Compute Engine	Images [+]	CREATE IMAGE CREFRESH						HELP ASSISTANT SHOW	INFO PANEL 🗢 LEARN
Virtua	I machines	An image is a replica of	a disk that contains the applications and operating system							
8	VM instances	needed to start a VM. Yo	ou can create custom images or use public images pre-							
_		conligured with Elliux of	windows Oses. Learning							
Ш	Instance templates	IMAGES IMJ	AGE IMPORT HISTORY IMAGE EXPORT HISTORY							
8	Sole-tenant nodes	😇 Filter Enter proj	perty name or value						🚱 🛛 🗩 Show dep	recated images
	Machine images	Status	Name	Location	Archive size 🔞	Disk size	Created by	Family	Creation time	Actions
8	TPUs		endpointprotector-5400	eu	1.85 GB	100 GB	epp-test-211209		Sep 13, 2021, 1:57:38 PM UTC+03:00	:
_			endpointprotector5500	europe-central2	2.37 GB	100 GB	epp-test-211209		Mar 1, 2022, 9:55:19 AM UTC+02:00	:
1961	Committed use discounts		epp-5300	eu	2.17 GB	100 GB	epp-test-211209		Mar 22, 2021, 11:15:36 AM UTC+02:00	:
Q	Migrate for Compute Engl		epp5207	eu	1.83 GB	320 GB	epp-test-211209		Jan 21, 2020, 11:24:45 AM UTC+02:00	:
Storar			epp5209	eu	1.57 GB	100 GB	epp-test-211209		Jan 20, 2021, 3:25:24 PM UTC+02:00	1
			c0-deeplearning-common-cpu-v20220316-debian-10	asia, eu, us	-	50 GB	Debian	common-cpu-debian-10	Mar 17, 2022, 7:47:00 PM UTC+02:00	:
	Disks		c0-deeplearning-common-cu113-v20220316-debian-10	asia, eu, us	-	50 GB	Debian	common-dl-gpu-debian-10	Mar 17, 2022, 8:58:40 PM UTC+02:00	1
2	Snapshots		c1-deeplearning-tf-1-15-cu110-v20220316-debian-10	asla, eu, us	-	50 GB	Debian	tf-1-15-gpu-debian-10	Mar 17, 2022, 9:38:01 PM UTC+02:00	:
p-q	Imanae		c1-deeplearning-tf-1-15-tpu-v20220316-debian-10	asia, eu, us	-	50 GB	Debian	tf-1-15-tpu-debian-10	Mar 17, 2022, 9:25:44 PM UTC+02:00	1
tea	mugeo		c1-deeplearning-tf-2-1-cu110-v20220316-debian-10	asia, eu, us	-	50 GB	Debian	tf-2-1-gpu-debian-10	Mar 17, 2022, 10:30:09 PM UTC+02:00	:
Instan	ce groups ^		c1-deeplearning-tf-2-1-tpu-v20220316-debian-10	asia, eu, us	-	50 GB	Debian	tf-2-1-tpu-debian-10	Mar 17, 2022, 10:07:07 PM UTC+02:00	:
4 54	Instance groups		c1-deeplearning-tf-2-3-cu110-v20220316-debian-10	asia, eu, us	-	50 GB	Debian	tf-2-3-gpu-debian-10	Mar 17, 2022, 10:48:05 PM UTC+02:00	:
			c1-deeplearning-tf-2-3-tpu-v20220316-debian-10	asia, eu, us	-	50 GB	Debian	tf-2-3-tpu-debian-10	Mar 17, 2022, 10:38:17 PM UTC+02:00	:
10	Health checks		c1-deeplearning-tf-2-6-cu110-v20220316-debian-10	asia, eu, us	-	50 GB	Debian	tf-2-6-gpu-debian-10	Mar 18, 2022, 1:19:55 AM UTC+02:00	:
VM M	anager ^		c1-deeplearning-tf-2-6-tpu-v20220316-debian-10	asia, eu, us	-	50 GB	Debian	tf-2-6-tpu-debian-10	Mar 18, 2022, 12:21:27 AM UTC+02:00	:
Ø	OS patch management		c1-deeplearning-tf-2-7-cu113-v20211219-debian-10	asia, eu, us	-	50 GB	Debian	tf-2-7-gpu-debian-10	Dec 21, 2021, 1:56:47 AM UTC+02:00	:
			c1-deeplearning-tf-2-7-tpu-v20211219-debian-10	asia, eu, us	-	50 GB	Debian	tf-2-7-tpu-debian-10	Dec 21, 2021, 12:43:02 AM UTC+02:00	:
茶	Marketplace		c1-deeplearning-tf-2-8-cu113-v20220316-debian-10	asia, eu, us	-	50 GB	Debian	tf-2-8-gpu-debian-10	Mar 18, 2022, 2:06:15 AM UTC+02:00	:
			c1-deeplearning-tf-2-8-tpu-v20220316-debian-10	asia, eu, us	-	50 GB	Debian	tf-2-8-tpu-debian-10	Mar 18, 2022, 1:20:09 AM UTC+02:00	:
Ē	Release Notes		c2-deeplearning-pytorch-1-10-cu110-v20220227-debian-10	asia, eu, us	-	50 GB	Debian	pytorch-1-10-gpu-debian-10	Feb 28, 2022, 11:51:12 PM UTC+02:00	:
4			c2-deeplearning-pytorch-1-10-xla-v20220227-debian-10	asia, eu, us	-	50 GB	Debian	pytorch-1-10-xla-debian-10	Feb 28, 2022, 10:30:19 PM UTC+02:00	:
			c2-deeplearning-pytorch-1-11-cu113-v20220316-debian-10	asia, eu, us	-	50 GB	Debian	pytorch-1-11-gpu-debian-10	Mar 19, 2022, 1:23:04 AM UTC+02:00	:

- 2. To create the image, provide the following information and then click Create:
 - Name add a name for the image
 - Source select Cloud Storage file
 - Cloud Storage file upload the Endpoint Protector image file
 - Location select Multi-regional
 - Encryption select Google-managed encryption key

Note: The process can take several minutes depending on the size of the boot disk image.

≡	Google Cloud Platform	s EPP Test 👻	Cearch Products, resources, docs (/)	5 0 2 i T
۲	Compute Engine	← Create an image		
Virtua E E E	Imachines A VM Instances Instance templates Sole-tenant nodes Machine images TPUs	Name *	Vour free trial credit will be used for this image <u>GCP free Ter</u> Or Rowse the	
2 Q	Committed use discounts Migrate for Compute Engi	Location @ Multi-regional		
Storaç Q	Disks Snapshots	Regional Setect location eu (multiple regions in European Union) Family	•	
Instan ผู้ใน	ce groups	Description		
ш ум м ©	Health checks anager ^ OS patch management	Labels + ADD LABEL		
Ř E	Marketplace Release Notes	Encryption Data is encrypted automatically. Select an encryption key management solution.		
۲I		CREATE CANCEL EQUIVALENT COMMAND LINE -		

3.5. Create an Endpoint Protector VM Instance

After the Endpoint Protector Image is available in the Google Cloud Platform images list, create a Virtual Machine Instance:

1. In the **Google Cloud Platform Console**, go to the **VM Instances** page and click **Create instance**;

	Google Cloud Platform	🐤 EPP Test 👻			२, Search Produ	cts, resources,	locs (/)					D 0 2	: 🚺
۲	Compute Engine	VM instances	CREATE INSTANCE	📥 IMPORT VM	C REFRESH	START / RESU	ME STOP	II SUSPEND 🖑 RESET	1	S OPERATIONS ▼	HELP ASSISTANT	SHOW INFO PANEL	S LEARN
Virtual	machines ^	INSTANCES IN	ISTANCE SCHEDULE										
	Instance templates	VM instances are highly co infrastructure. Learn more	onfigurable virtual machines f	for running workloads o	in Google								
日	Sole-tenant nodes	= Filter Enter proper	rty name or value									G	ш
	Machine images	Status	Name 🛧	Zone	Recommendations	In use by	Internal IP	External IP	Connect				
88	TPUs	• •	endpointprotector-5400	europe-central2-a			10.186.0.2 (nic0)		SSH ·	· :			
200	Committed use discounts	• •	endpointprotector5207	europe-west1-b			10.132.0.2 (nic0)	35.187.75.199 🔀 (nic0)	SSH	· •			
_			endpointprotector5209	europe-west3-c			10.156.0.2 (nic0)		SSH ·	· •			
Q	Migrate for Compute Engl	0	endpointprotector5300	europe-west3-c			10.156.0.3 (nic0)		SSH	· •			
Storag	e ^	0 0	endpointprotector5400-1	europe-central2-a			10.186.0.3 (nic0)		SSH ·	· •			
	Disks		epp5500	europe-central2-a			10.186.0.5 (nic0)	34.118.4.89 🖾 (nic0)	SSH	•			
Ð	Snapshots	Related actions											✓ SHOW
	Images												
Instan	ce groups												
	Instance groups												
â	Health checks												
VM Ma	inager ^												
\odot	OS patch management												
岸	Marketplace												
È	Release Notes												

- 2. In the **Boot disk** section, click **Change** to begin configuring your boot disk and on the **Custom Images** tab, fill in the following:
 - Image select the image you imported
 - Boot disk type select Standard persistent disk
 - Size add a size larger than the Endpoint Protector image size received

Click **Select** to confirm the boot disk configuration.



3. On the Firewall section, select Allow HTTP traffic and Allow HTTPS traffic, and then click Create.



3.6. Request a Static IP

You will need to request a static IP so the Endpoint Protector Clients can communicate with the same IP Address in case of an instance restart.

Without a Static IP (Elastic IP) the instance will assign a new IP address every time it is restarted and the Endpoint Protector Clients have to be reinstalled.

To request a Static IP, go to IP addresses and select the External IP addresses tab.

	Google Cloud Platform	🐓 EPP Test 👻			Q Sear	sh Products,	resources, doc	:s (/)	~)		5	9 2 : 🔳
11	VPC network	IP addresses	RESERVE EXTER	INAL STATIC ADDRESS	s C REFRESH	RELEASE S	TATIC ADDRESS						SHOW INFO PANEL
82	VPC networks	ALL INTERNAL	IP ADDRESSES	EXTERNAL IP ADDR	ESSES IPV4	ADDRESSES	IPV6 ADDRE	ISSES					
65	IP addresses	= Filter Enter property	y name or value										@ III
<i>a</i> 1	Deleg warmen (D	Name Name	Enter property name or value Vame IP address Access type Region epp5207 staticip 35.187.75.199 External europe-v				Version	In use by	Subnetwork	VPC Network	Network Tier 🕜	Labels	
8	Firewall	epp5207staticip	35.187.75.199	External	europe-west1	Static	IPv4	VM instance endpointprotector5207 (Zone europe-west1-b)			Premium		CHANGE
24	Routes	□ -	epp5207staticip 35.187.75.199 External europe - 34.118.4.89 External europe central:		europe- central2	Ephemeral IPv4 VM instance epp5500 (Zone europe-central2- a)			default	default			RESERVE
\diamond	VPC network peering												
	Shared VPC												
\otimes	Serverless VPC access												
	Packet mirroring												

3.7. Create Firewall rules

To create a Firewall rule, on the Google Cloud Platform Console, follow these steps:

1. Go to the Firewall page and select default-allow-ssh;

≡	Google Cloud Platform	\$ • E	PP Test 👻 🔍 🤤	Search Proc	lucts, resources	s, docs (/)			~					۶.	0	2	÷	T
П	VPC network	Fire	ewall 🛨 CREA	TE FIREWALL R		RESH TONFIGURE LO	DGS 👕 DELETE											
8 13 ⊕	VPC networks IP addresses Bring your own IP	Firev traffi Note	vall rules control incoming c from outside your netwo : App Engine firewalls are i	or outgoing tra rk is blocked. L managed in the	ffic to an Instance earn more App Engine Firew	. By default, incoming rall rules section ⊠.												
88	Firewall	₩ Fi	ilter Enter property name	or value												0	1.1	I I
	Denter		Name	Туре	Targets	Filters	Protocols / ports	Action	Priority	Network 个	Logs	Hit count 🔞	Last hit 😧	Ir	nsights			
24	Routes		default-allow-http	Ingress	http-server	IP ranges: 0.0.0.0/0	tcp:80	Allow	1000	default	Off	-	-					
Ŷ	VPC network peering		default-allow-https	Ingress	https-server	IP ranges: 0.0.0.0/0	tcp:443	Allow	1000	default	Off	-	-					
	Shared VPC		default-allow-icmp	Ingress	Apply to all	IP ranges: 0.0.0.0/0	icmp	Allow	65534	default	Off	-	-					
\$	Serverless VPC access		default-allow-internal	Ingress	Apply to all	IP ranges: 10.128.0.0/9	tcp:0-65535 udp:0-65535 icmp	Allow	65534	default	Off	-	-					
- Iĝi-	Packet mirroring		default-allow-rdp	Ingress	Apply to all	IP ranges: 0.0.0.0/0	tcp:3389	Allow	65534	default	Off	-	-					
			default-allow-ssh	Ingress	Apply to all	IP ranges: 0.0.0.0/0	tcp:64848	Allow	65534	default	Off	-	-					

- 2. Click Edit and on the Protocols and ports section provide the following information:
 - select Specified protocols and ports
 - check the tcp box and enter 64848

≡	Google Cloud Platform	* EPP Test ~ Q. Search Products, resources, docs (/) V D 0 2 1 T
11	VPC network	← Firewall rule details ✓ EDIT ■ DELETE
8	VPC networks	default-allow-ssh
Ľ	IP addresses	Allow SSH from anywhere
¢	Bring your own IP	
88	Firewall	
24	Routes	La major menena roga cangemene e sange nancer on roga minor can increase costa in chool Logging Learn more O On
എം	VPC network peering	O off
\bowtie	Shared VPC	Network
\otimes	Serverless VPC access	default
ıliji	Packet mirroring	65534 CHECK PRIORITY OF OTHER FIREWALL RULES
		Direction Instance Allow Source fiter IPv4 ranges 0.0.0.00 for example, 0.0.0/0, 192, 168, 2.0/24 0 Source fiter INone Protocols and ports Image: Ima

4. Azure

4.1. Obtain the Endpoint Protector Azure VM

Endpoint Protector is not generally available in the Azure Marketplace. To have access to the Virtual Machine, contact your Endpoint Protector Representative and provide information such as the access keys to a Container specifically created for the Endpoint Protector Virtual Machine.

Note: We will upload the Endpoint Protector Virtual Machine to your Container as soon as possible. Once this step is done, we advise regenerating the access key.

4.2. Create the Storage Account and Container

This part of the process is similar to creating any other Storage Account and Container on Azure. If you are already familiar with it or have created a dedicated Container already, proceed to the next step.

To obtain the Azure Endpoint Protector Virtual Machine, you need to create a dedicated Storage account / Container, following these steps:

- 1. Open the **Azure portal**;
- 2. Go to Storage accounts and click +Create;
- 3. To create a storage account, provide the following information:
 - Subscription select Pay-As-You-Go
 - Resource group select a group from the available list or create a new one
 - Storage account name add a name for the storage account
 - **Region** select the nearest the location of the computers that will be protected by Endpoint Protector
 - Performance select Standard performance
 - Redundancy select Locally-redundant storage (LRS)
- 4. Click Review + create;

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Microsoft Azure	P Search resources, services, and docs (G+/)
«	Home > Storage accounts >
+ Create a resource	Create a storage account
숚 Home	, ,
🖾 Dashboard	Basics Advanced Networking Data protection Encryption Tags Review + create
I All services	-
★ FAVORITES	
All resources	Project details
😥 Resource groups	
📀 App Services	manage your storage account to create the new storage account. Choose a new of existing resource group to organize and manage your storage account together with other resources.
🧧 SQL databases	Subscription * Pav-As-You-Go
🥸 Azure Cosmos DB	
早 Virtual machines	Resource group * (New) EndpointProtectorRG ~
💠 Load balancers	Create new
Storage accounts	
Virtual networks	Instance details
Azure Active Directory	
🕑 Monitor	If you need to create a legacy storage account type, please click here.
🗛 Advisor	Storage account name () * eppcososys
Microsoft Defender for Cloud	Region ① * (Europe) West Europe 🗸
Help + support	
🙆 Cost Management + Billing	Performance ① *
	Premium: Recommended for scenarios that require low latency.
	Redundancy 🔘 * Locally-redundant storage (LRS)
	Review + create < Previous

- 4. Go to Storage accounts and click the newly created account;
- 5. Go to Containers and click +Container;
- Give the container the same name as you did to the storage account and for the Public access level select Container (anonymous read access for containers and blobs);



7. Select the container you created, and then click **Shared access tokens**.

Important: Make sure you are creating a token on the container level, not the storage account!

8. Configure the **SAS token** with **Create**, **Write and Add Permissions** with a **5-day** window to allow the CoSoSys team to copy the image;

Container Shared acces	ss tokens	×
	A shared access signature (SAS) is a URI that grants restricted access to an Azure Storage container. Use it when you want to grant access to storage account resources for a specific time range without sharing your storage account key. Learn more about creating an account SAS	
Overview	Signing method	
Diagnose and solve problems	Account key User delegation key	
Access Control (IAM)	Signing key () Key 1 V	
Settings	Stored access policy	
Shared access tokens	None	
Access policy	Permissions * 🔘	
Properties	2 selected V	
Metadata	Start and explive date/time ①	
	Start	
	06/06/2022	
	(UTC+02.00) Harare, Pretoria	
	Expiry	
	06/11/2022 III 11:11:31 AM	
	UTC+02:00) Harare, Pretoria	
	Allowed IP addresses 🕥	
	for example, 168.1.5.65 or 168.1.5.65-168.1	
	Allowed protocols ③	
	Generate SAS token and URL	
	Blob SAS token 🕥	
	a veleto da la della esta esta esta esta esta esta esta est	
	Blob 5AS URL	
	New York Control of the Control of the Control of the Control of C	

9. Copy the **Blob SAS URL** and send it to CoSoSys.

Note: CoSoSys will copy the Endpoint Protector Virtual Machine to your storage account and notify you when the process is over.

4.3. Create the disk

Before starting the Endpoint Protector Virtual Machine, you have to prepare a disk and a Virtual Machine.

To create a disk, follow these steps.

1. From the top right side of the page, go to All resources and click +Create;

Microsoft Azure	,P Search resources, services, and docs (G+/)			N 47 Q	©
 Create a resource Home Dashboard 	Home > All resources	🖗 Assign tags 🍵 Delete			
All services FAVORITES All resources	Filter for any field Subscription == all Resource group == all X T Image: The second se	ype == all X Location == all X to	7 Add filter	No group	ping 🔨
Resource groups	Name 🗘	Type ↑↓	Resource group ↑↓	Location ↑↓	Subscription \uparrow_\downarrow
SOL databases		Snapshot	West5207	West Europe	Pay-As-You-Go
Azure Cosmos DB		Public IP address	epp5207	France Central	Pay-As-You-Go
Virtual machines		Network security group	epp5207	France Central	Pay-As-You-Go
Load balancers		Regular Network Interface	epp5207	France Central	Pay-As-You-Go
Storage accounts		Disk	EPP5400	France Central	Pay-As-You-Go
Virtual networks		Regular Network Interface	azuread	Central US	Pay-As-You-Go
	🗌 🖷 web i soli foli metali dell'i dell'i dell'i dell'i della di terra di soli d	Regular Network Interface	azuread	Central US	Pay-As-You-Go
Manitar	🗌 💠 adde entrete et al det de maneur en remerte	Load balancer	azuread	Central US	Pay-As-You-Go
Advises	B Set Obdox/Minimum Televis	Public IP address	azuread	Central US	Pay-As-You-Go
Advisor	🗌 🌻 ustili auraityuaritii	Network security group	azuread	Central US	Pay-As-You-Go
Cloud	🗆 🌞 🚥	SSH key	azuread	Central US	Pay-As-You-Go
🤰 Help + support		Snapshot	West5207	West Europe	Pay-As-You-Go
😳 Cost Management + Billing		Snapshot	West5207	West Europe	Pay-As-You-Go
		Virtual network	azuread	Central US	Pay-As-You-Go
		Virtual network	azuread	East US	Pay-As-You-Go
		Storage account	azuread	Central US	Pay-As-You-Go
		Storage account	azuread	East US	Pay-As-You-Go
		Azure AD Domain Services	azuread	Central US	Pau-As-Vnii-Gn

2. Search the marketplace for Managed Disks;

Microsoft Azure		√ Search resources, services, and docs (G+/)		S & C & C &
«	Home > All resources >			
+ Create a resource	Create a resource			
A Home				
Z Dashboard	Get Started	• managed disk ×	Setting Started? Try our Quickstart center	
I All services	Recently created	Managed Disks		
★ FAVORITES	í L		Popular Marketplace products See more in Marketplace	
All resources	Categories	Virtual machine	Windows Server 2019 Datacenter	
() Resource groups	Al + Machine Learning	Create Learn more	Create Learn more	
App Services	Analytics	Kubernetes Service	Ubuntu Server 20.04 LTS	
🧧 SQL databases	Blockchain	Create Docs MS Learn	Create Learn more	
🥸 Azure Cosmos DB	Compute	Azure Cosmos DB	Windows 10 Pro, version 20H2	
💶 Virtual machines	Containers	Create Docs MS Learn	Create Learn more	
💠 Load balancers	Databases	- Function App	Ubuntu Server 18.04 LTS	
Storage accounts	Developer Tools	Create Docs	Create Learn more	
Virtual networks	DevOps	SQL Database	Eree 100	
Azure Active Directory	Identity	Create Docs MS Learn	Sindond Set up + subscribe Learn more	
Monitor	Integration			
🤿 Advisor	Internet of Things	Create Docs MS Learn	Elastic Cloud - Pay as you Go Set up + subscribe Learn more	
Microsoft Defender for	IT & Management Tools			
	Media	DevOps Starter	- StartStopV2	
Heip + support	Migration			
Cost Management + Billing	Mixed Reality	Web App	Single VM	
	Monitoring & Diagnostics	Create Dots Mis Learn	Cleate Learn more	
	Networking		Azure CLI packaged by Bitnami	
	Security		Create Learn more	
	Storage		Per IAM App	
	Web		Create Learn more	

3. Go to Managed Disks and select Create;

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- 4. To create a managed disk, provide the following information
 - Subscription select Pay-As-You-Go
 - Resource group select the previously created one
 - Disk name add a name for the storage account
 - **Region** select the nearest the location of the computers that will be protected by Endpoint Protector
 - Availability Zone
 - Source type select Storage Blob
 - Source subscription select Pay-As-You-Go
 - **Source blob** enter the URL received from CoSoSys after providing the key and URL mentioned above.
 - OS type select Linux
 - Security type select Standard
 - VM generation select Generation 1
 - Size select 128 GB
- 5. Click **Review + Create** and wait for the **Successfully created disk** message to be displayed.

Microsoft Azure 🔑 Se	arch resources, services, and docs (G+/)		L G	ф 🖗 (୭ ନ
«	Home > All resources > Create a reso	ource > Managed Disks >			
+ Create a resource	Create a managed disk				
숚 Home	5				
🖾 Dashboard	Project details				
I All services	Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all				
★ FAVORITES	your resources.				
All resources	Subscription * 🕕	Pay-As-You-Go 🗸			
() Resource groups	Resource group * ③	EndpointProtectorRG V			
App Services		Create new			
🧧 SQL databases	Disk details				
🧕 Azure Cosmos DB	Disk name * 🥡	eppdisk 🗸			
Virtual machines	Region * ④	(Europe) West Europe			
💠 Load balancers	Availability zone	None			
Storage accounts	Source turne	Storage blob			
Virtual networks	Source type ()				
🚸 Azure Active Directory	Source subscription 🕕	Pay-As-You-Go 🗸			
🕑 Monitor	Source blob * (i)	https://west5207storage.blob.core.windows.net/west5207storage/epp5207-25 ✓			
<table-of-contents> Advisor</table-of-contents>		Browse			
Microsoft Defender for	OS type 🛈	None (data disk)			
Cloud		Windows			
Help + support		-			
Cost Management + Billing	Security type ①	Standard V			
	VM generation (i)	Generation 1			
		Generation 2			
	Size * 🛈	512 GiB			
		Standard HDD LRS Change size			
	Review + create < Pre	evious Next : Encryption >			

4.4. Create the Virtual Machine

To start the Endpoint Protector Virtual Machine in Azure, follow these steps:

1. Go to the All resources page, select the newly created disks and then click Create VM

Microsoft Azure		P Search resources, services, and docs (G+/)	図 頃 中 ③ ⑦ 矛
Microsoft Azure		Disk size : 512 Gill Disk size : 512 Gill Disk sku : Standard HDD LRS Managad by : Operating system : Linux Max shares :: Du Availability zone : None Security type : Standard	
Advisor Microsoft Defender for Cloud Help + support Cost Management + Billing	Monitoring Metrics Automation Tasks (preview) Export template Export template	Disk Bytes/sec (Throughput) Disk Operations/sec (IOPS) _100 _100 _90 _90 _80 _90 _70 _70 _80 _90	Disk QD (Queue Depth) -100 -00 -00 -00 -00 -00 -00
	Support + troublesmooting	_50 _40 _50 _50 _50 _50 _50 _50 _50 _50 _50 _5	90

2. To create the Virtual Machine, provide the following information:

On the **Basics** tab, fill in the following:

- Subscription select Pay-As-You-Go
- Resource group select the group used when creating the disk
- Virtual Machine Name enter a name for the Virtual Machine
- **Size** select a virtual machine profile based closest to the recommended requirements for the disk file used

${\cal P}$ Search resources, services, and docs (G+	÷/)	▶_	Ŗ	Q	ŝ	?	ନ୍ଦି
Home > eppdisk >							
Create a virtual machir	ne						
▲ Changing Basic options may reset sele	ctions you have made. Review all options prior to creatir	ig the vir	tual mad	hine.			
Basics Disks Networking Ma	anagement Advanced Tags Review+c	reate					
Create a virtual machine that runs Linux a				un quet	omizod		- 1
image. Complete the Basics tab then Revi	ew + create to provision a virtual machine with defa	ult parar	neters (or revie	ew each	tab	- 1
for full customization. Learn more 🖻							- 1
Project details							- 1
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.							
Subscription *	Pav-As-You-Go					\sim	- 1
							- 1
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On the Networking tab, fill in the following:

- Public IP click Create new and select Basic SKU and Static Assignment.
- Select inbound ports add HTTP (80) and HTTPS (443)

Click **Review + create** and then **Create**.

Note: For Additional Features, we recommend selecting HDD instead of SSD to avoid unnecessary payments for an unused SSD attached to the Virtual Machine.

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★ FAVORITES	Define network connectivity for your virtu	al machine by configuring network interface card (NIC) settings. You can control ports,	Basic Standard		
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App Services	When creating a virtual machine, a netwo	rk interface will be created for you.			
🧧 SQL databases	Virtual network * ①	(new) EndpointProtectorRG-vnet			
🥸 Azure Cosmos DB		Create new			
📮 Virtual machines	Subnet * 🕡	(new) default (10.6.0.0/24)			
Load balancers	Public IP (i)	(new) EndpointProtector-ip			
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Azure Active Directory		Basic			
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O Microsoft Defender for		Allow selected ports			
Cloud	Select inbound ports *	HTTP (80), HTTPS (443)			
Help + support Cost Management + Billing	Delete public IP and NIC when VM is deleted ①				
	Accelerated networking ①	The selected image does not support accelerated networking.			
	Load balancing				
	You can place this virtual machine in the b	ackend pool of an existing Azure load balancing solution. Learn more O			
	Review + create < Pre	/ious Next : Management >	ок		

3. Once the deployment has finished, go to **Virtual Machines** on the right side and select the Endpoint Protector image.

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() Resource groups	 Tans 	Resource group (moxe) : EndpointProtectorRG	Operating system : Linux		
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Azure Cosmos DB	Settings	Subscription (move) : <u>Pay-As-You-Go</u>	Virtual network/subnet : Endpoint	ProtectorRG-vnet/default	
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A Load balancer	ø Connect	Tags (edit) : Click here to add tags			
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 storage accounts 	📮 Size				
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Azure Active Directory	Advisor recommendations	Health state -	Public IP address (IPv6)	-	
C Monitor	Extensions + applications	Operating system Linux	Private IP address	10.6.0.4	
Advisor	🚯 Continuous delivery	Publisher	Private IP address (IPv6)		
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R Help + support	Configuration	Plan	DNS name	Configure	
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Cost management · anning	Properties	Agent status Not Ready	Size	Standard B2s	
	A Lock	Agent version Onknown Host group None	vCPUs	2	
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	③ Auto-shutdown	Capacity reservation group -	Encryption at host	Disabled	
	🔗 Backup	S Availability + scaling	Azure disk encryption	Not enabled	

4. Open a web browser and connect to the Public IP address assigned to the Endpoint Protector image.

5. Endpoint Protector Licensing

Endpoint Protector is a Bring Your License (BYOL) Instance. This means that you are paying Amazon (AWS) / Google (GCP) / Microsoft (Azure) for running the instance and then importing the license previously purchased from CoSoSys or any Endpoint Protector Partner.

The price of the Endpoint Protector Licenses with AWS, GCP, or Azure is the same as licensing the Endpoint Protector Virtual Appliance. To purchase a license please contact your Endpoint Protector Representative or <u>sales@cososys.com</u>.

6. Disclaimer

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Each Endpoint Protector Server has the default SSH Protocol (22) open for Support Interventions, and there is one (1) System Account enabled (epproot) protected with a password. The SSH Service can be disabled at customers' request.

Security safeguards, by their nature, are capable of circumvention. CoSoSys cannot, and does not, guarantee that data or devices will not be accessed by unauthorized persons, and CoSoSys disclaims any warranties to that effect to the fullest extent permitted by law.

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