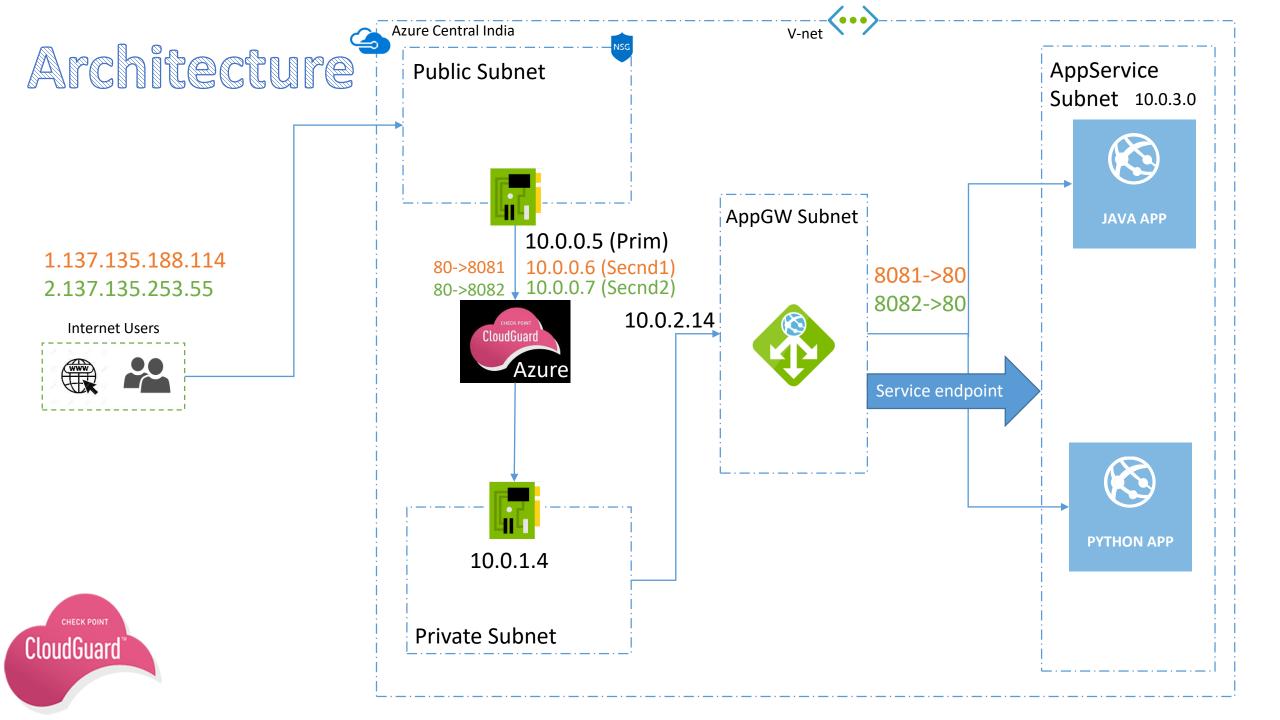
CheckPoint CloudGuard Paas Solution for Application Services in Azure

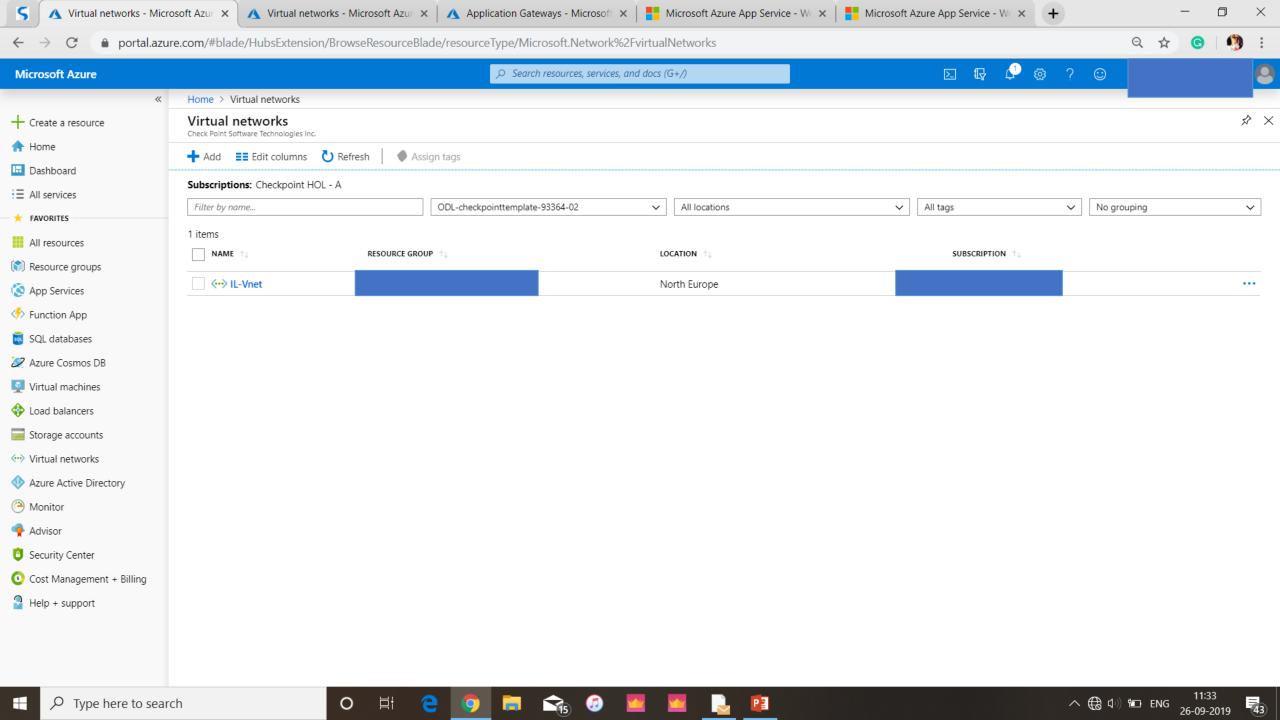


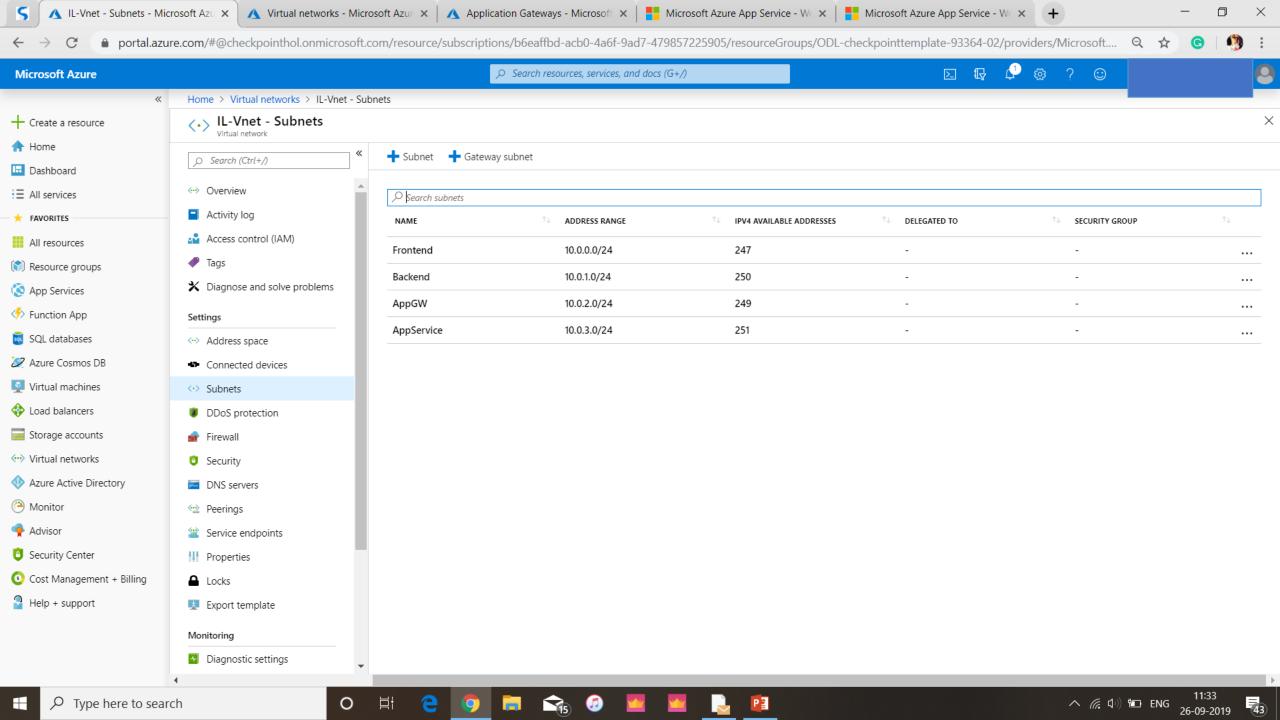
Solution found by:-Shalini Vishwakarma Amarpreet Singh

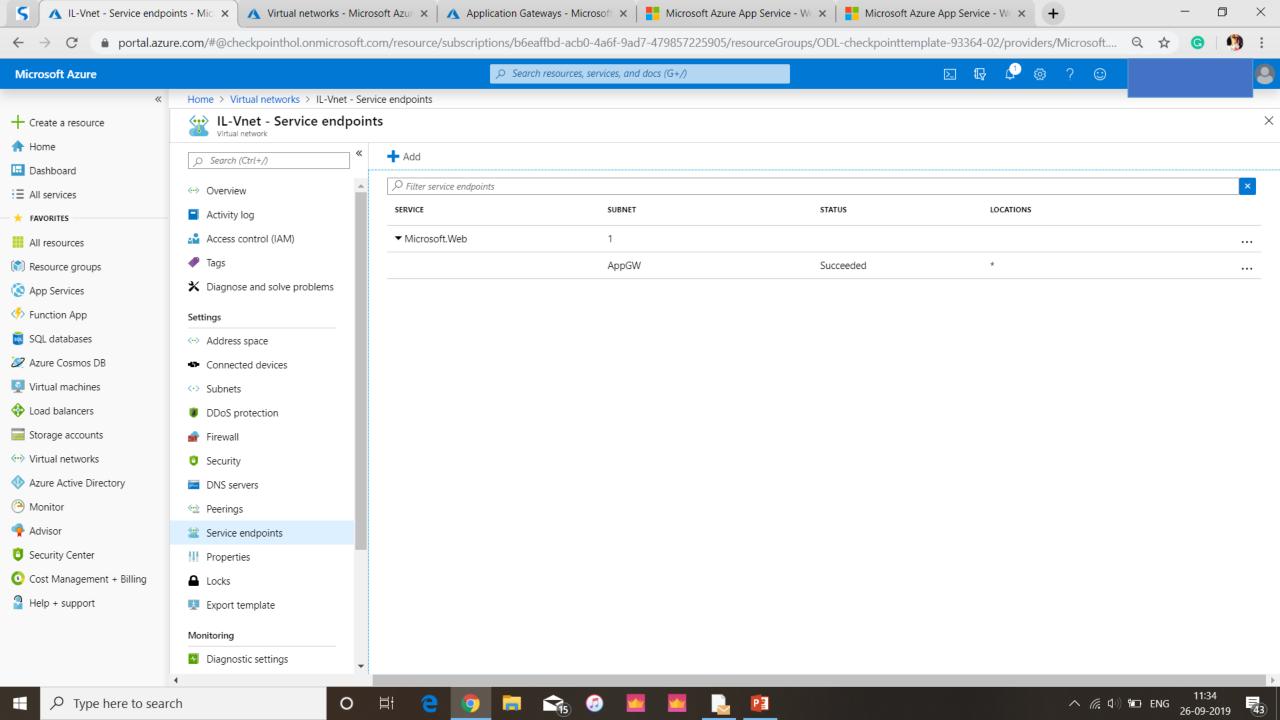


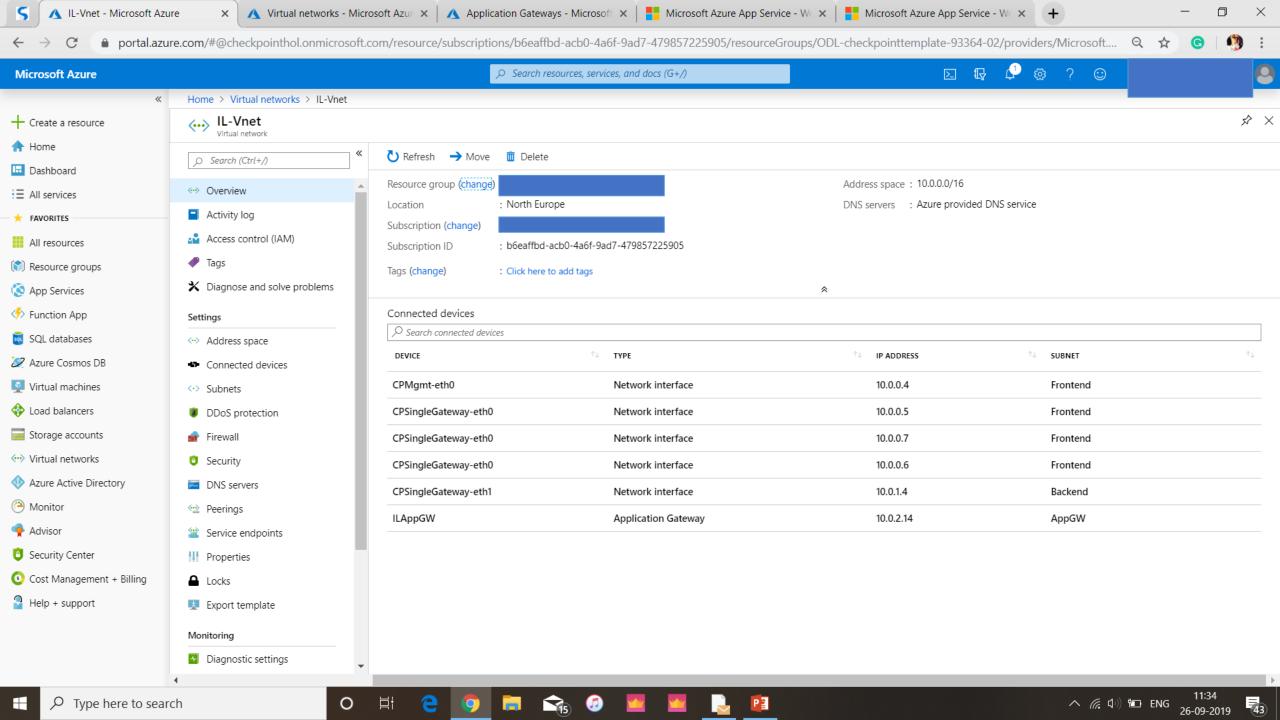
Log into Microsoft Azure cloud portal





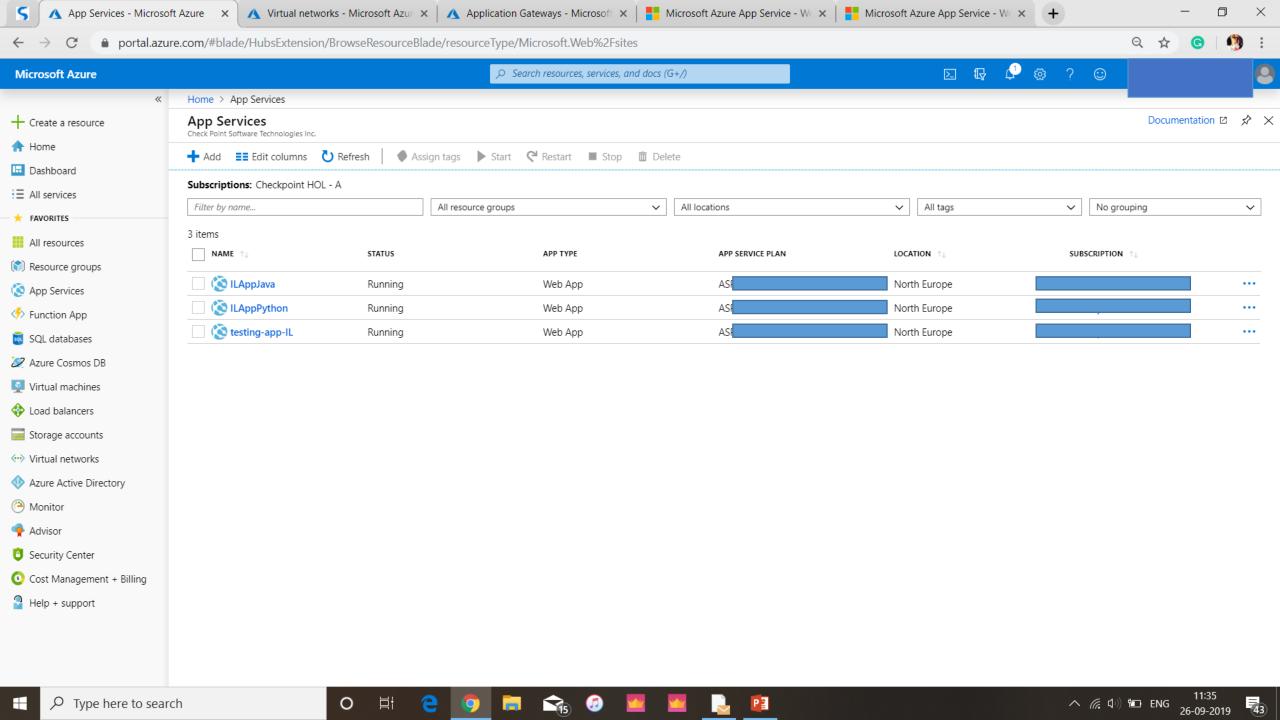


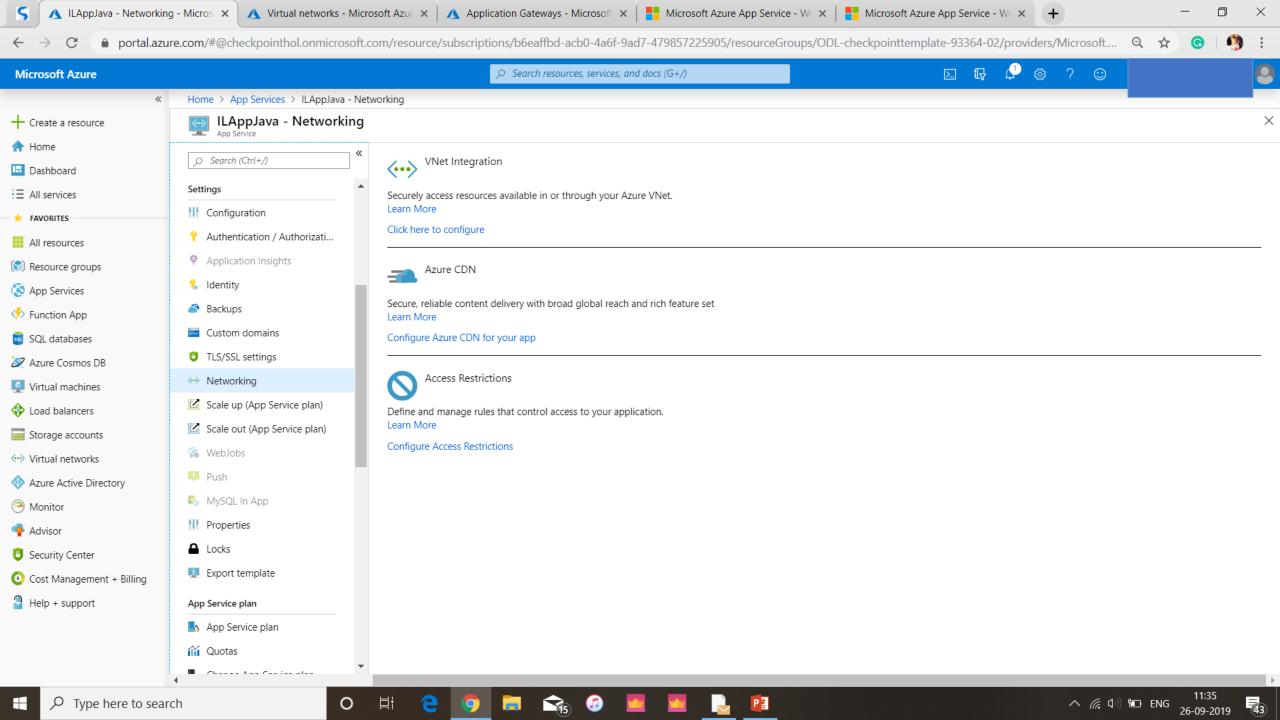


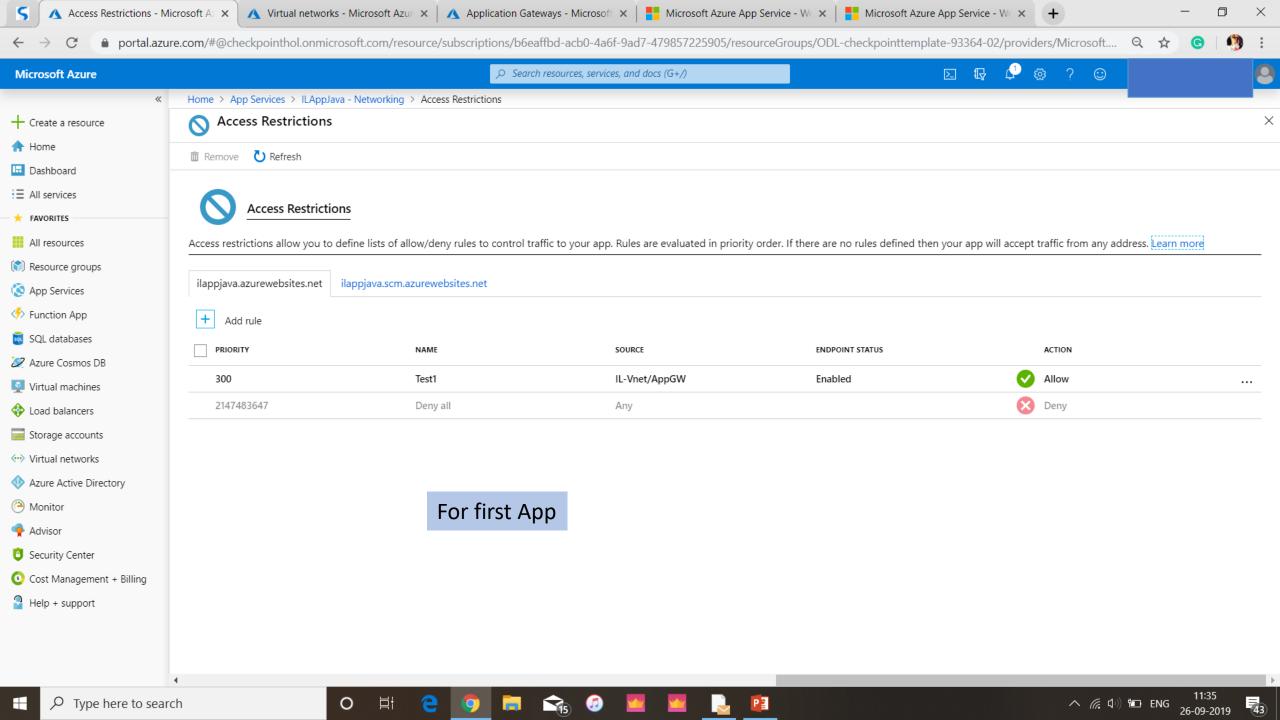


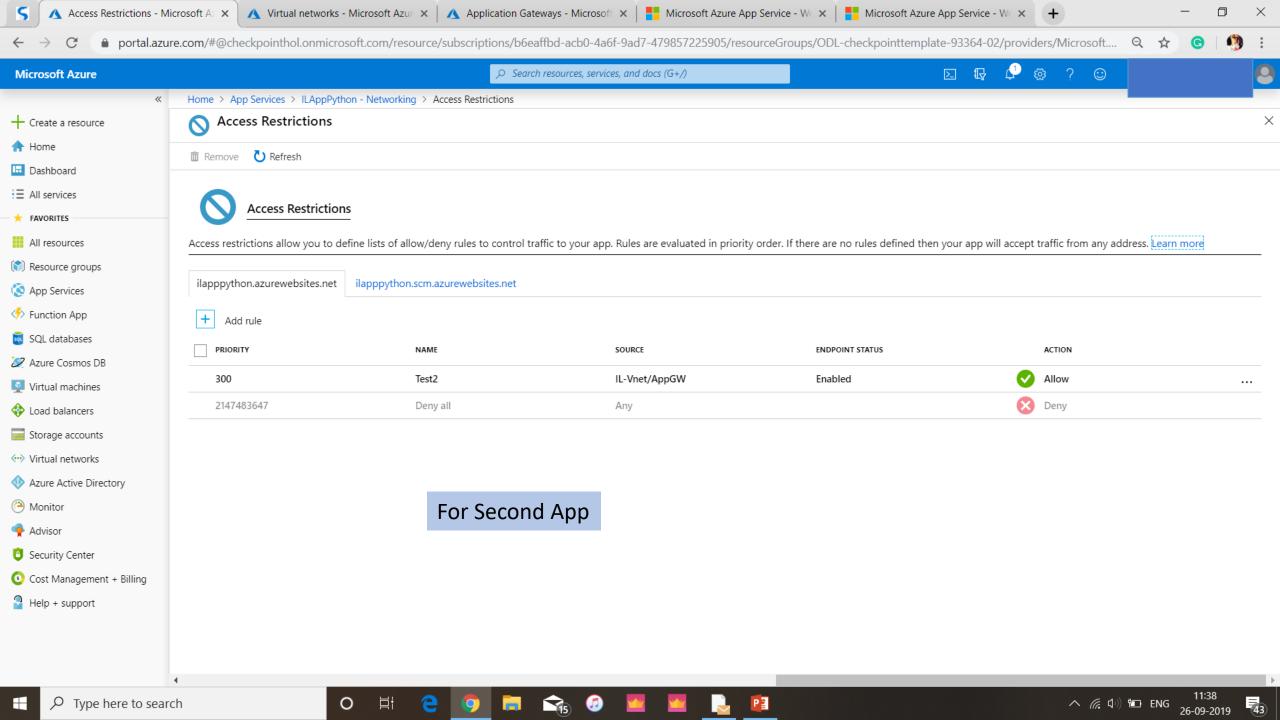
Creating Application Services(Web App) and configuring it.



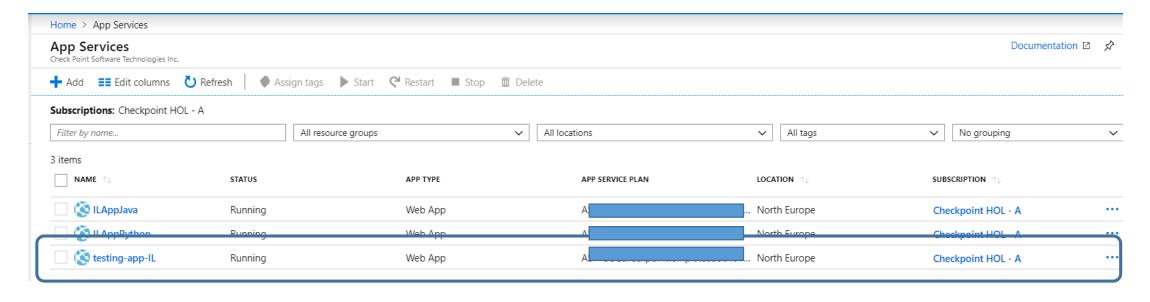


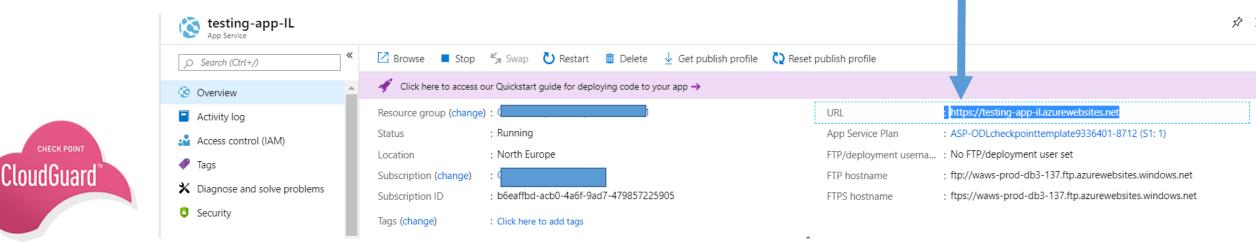






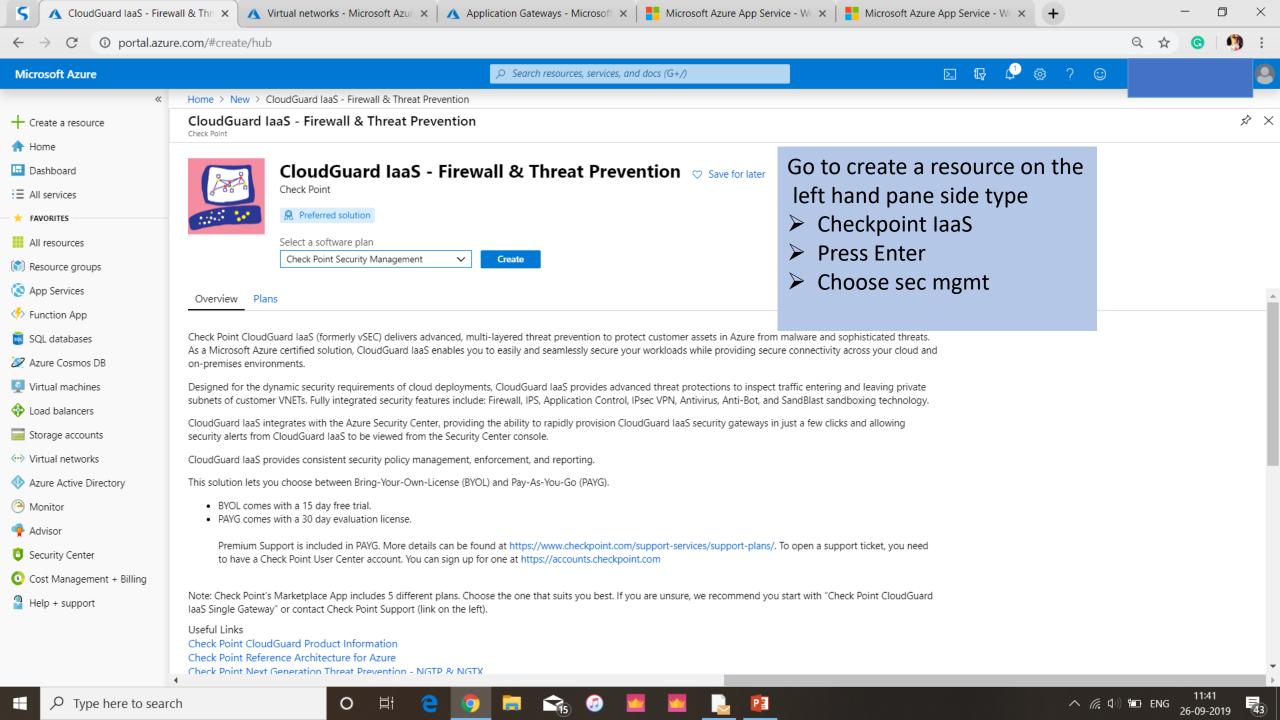
For the third app (testing-app-IL) Do not perform access restriction configuration as this app is just to show that this app is directly accessible to internet via app's URL

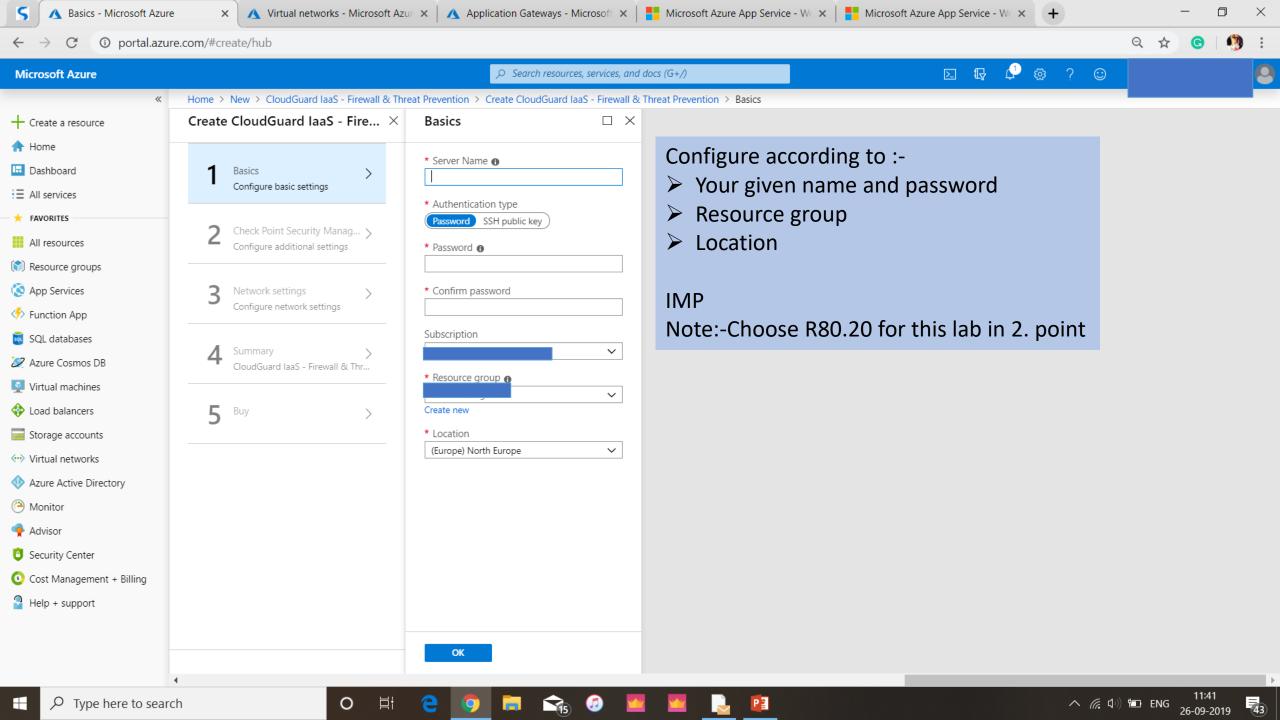


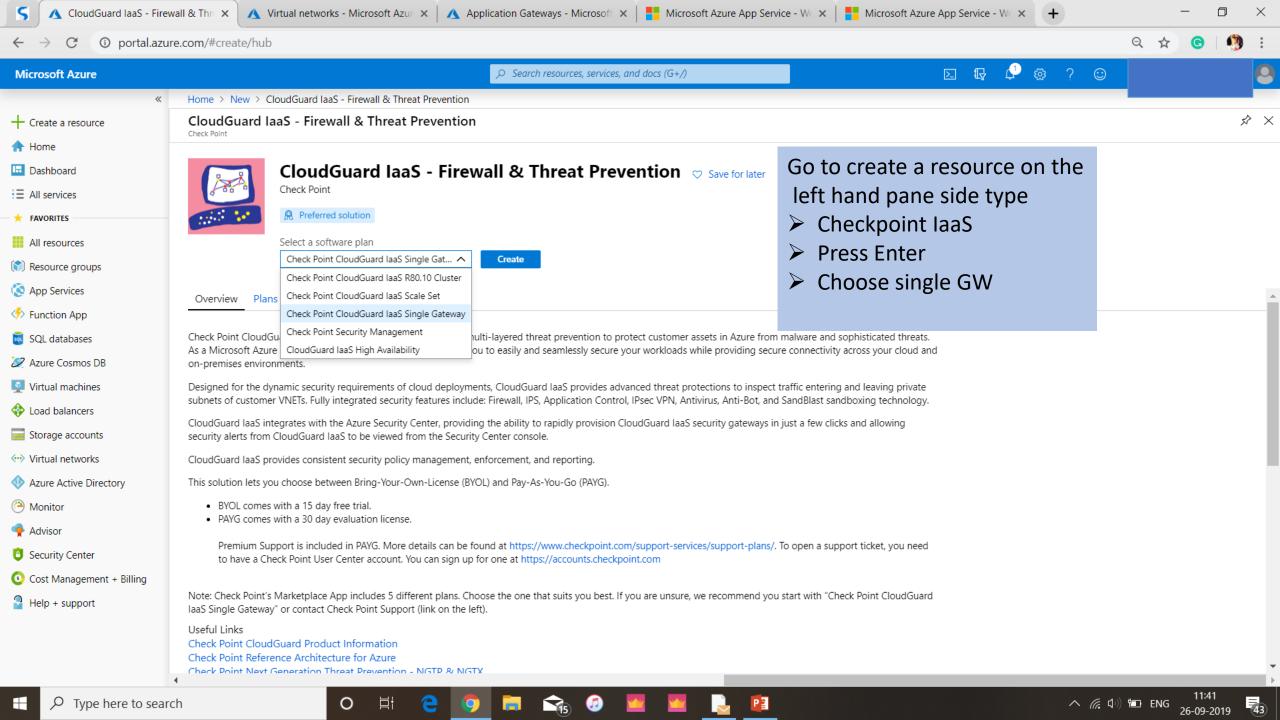


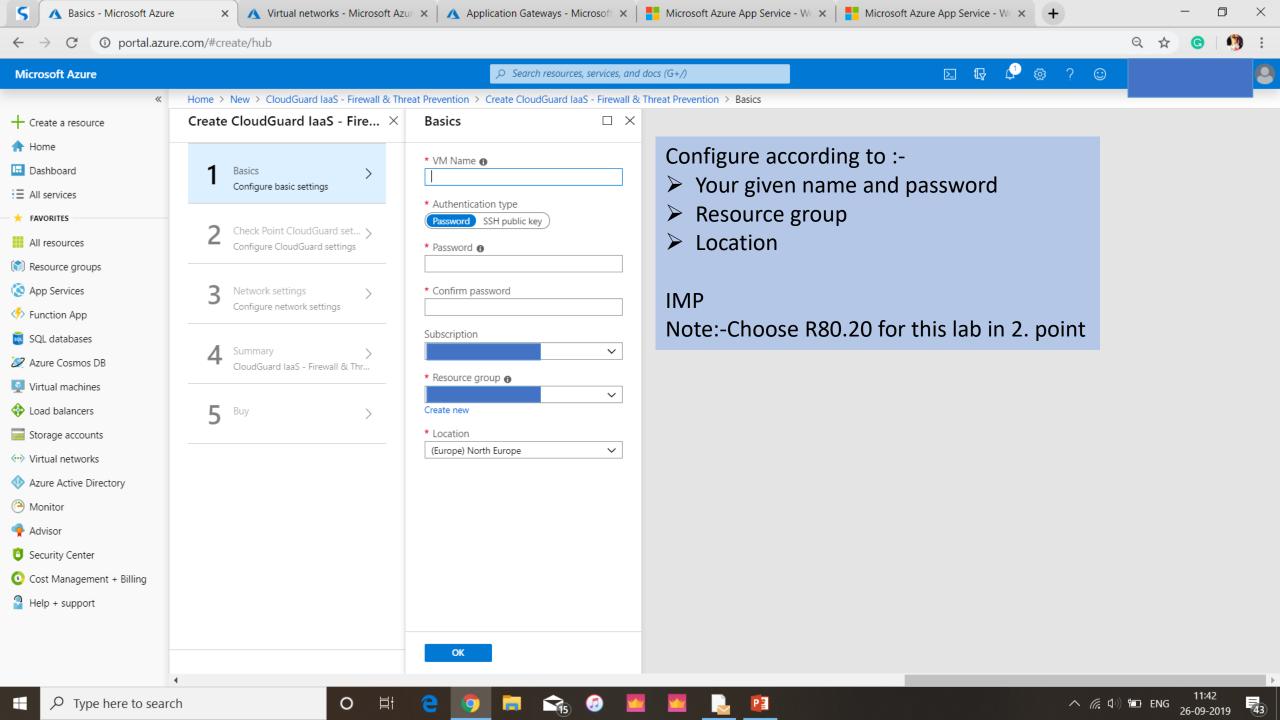
Deploying CheckPoint CLoudGuard Security Management & Single Gateway





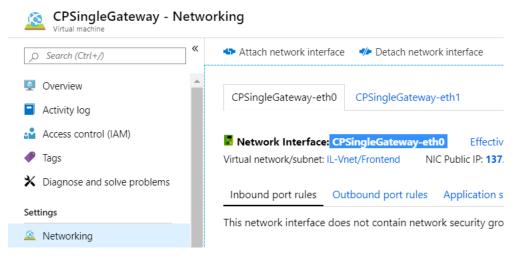




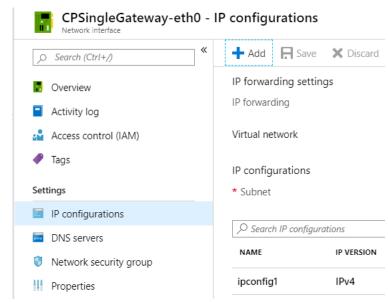


After the creation of security management & Single GW

1. Go to NIC under Settings



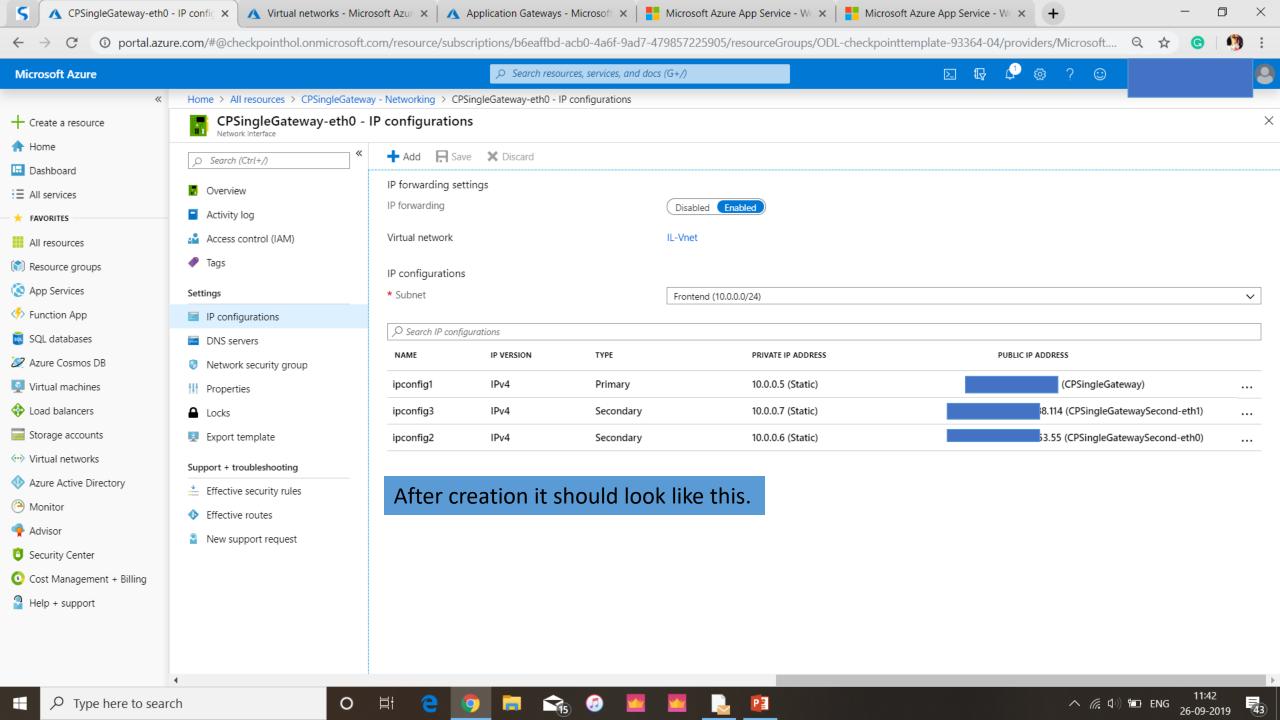
2. Go to IP config. Add





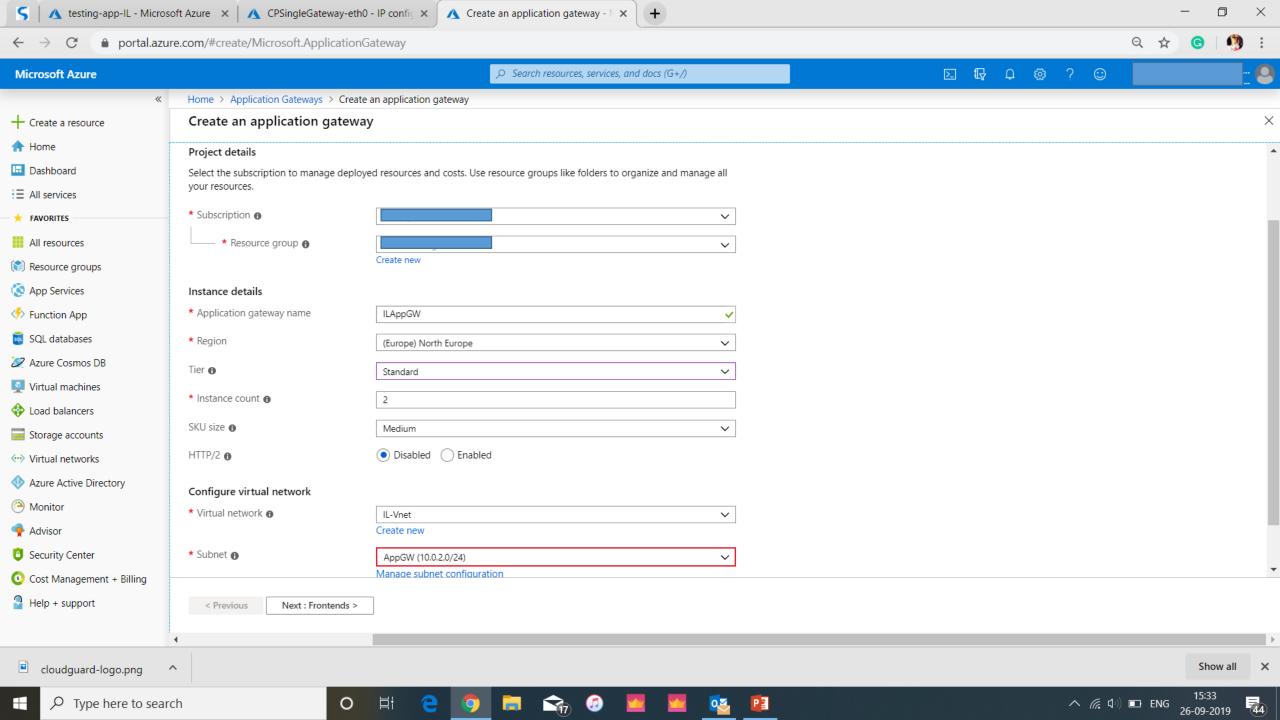
3. Add new IP 10.0.0.6 & 10.0.0.7 and give static public IP to each private IP made.

* Name				
ipcnfig2				
Type Primary Se	condary			
f Primary	IP configuration alread	ły exists		
Private IP add	ress settings			
Allocation				
Dynamic	Static			
* IP address				
10.0.0.6				
Public IP addre		•		
Disabled E	nabled			
* IP address		4		
	quired settings			

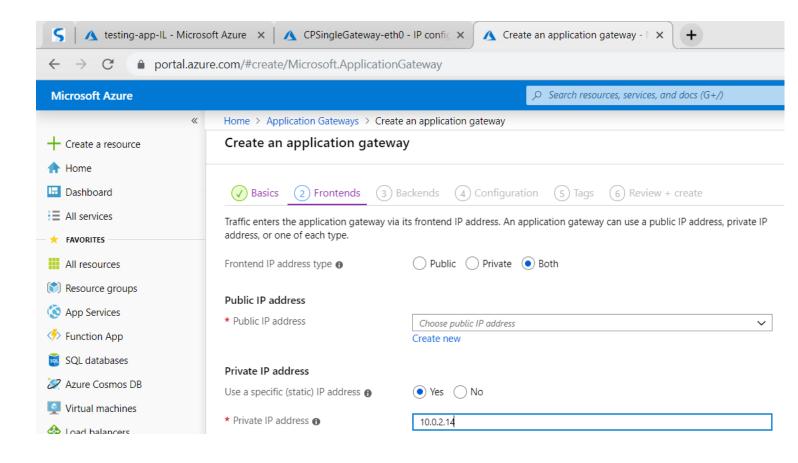


Configure Application Gateway

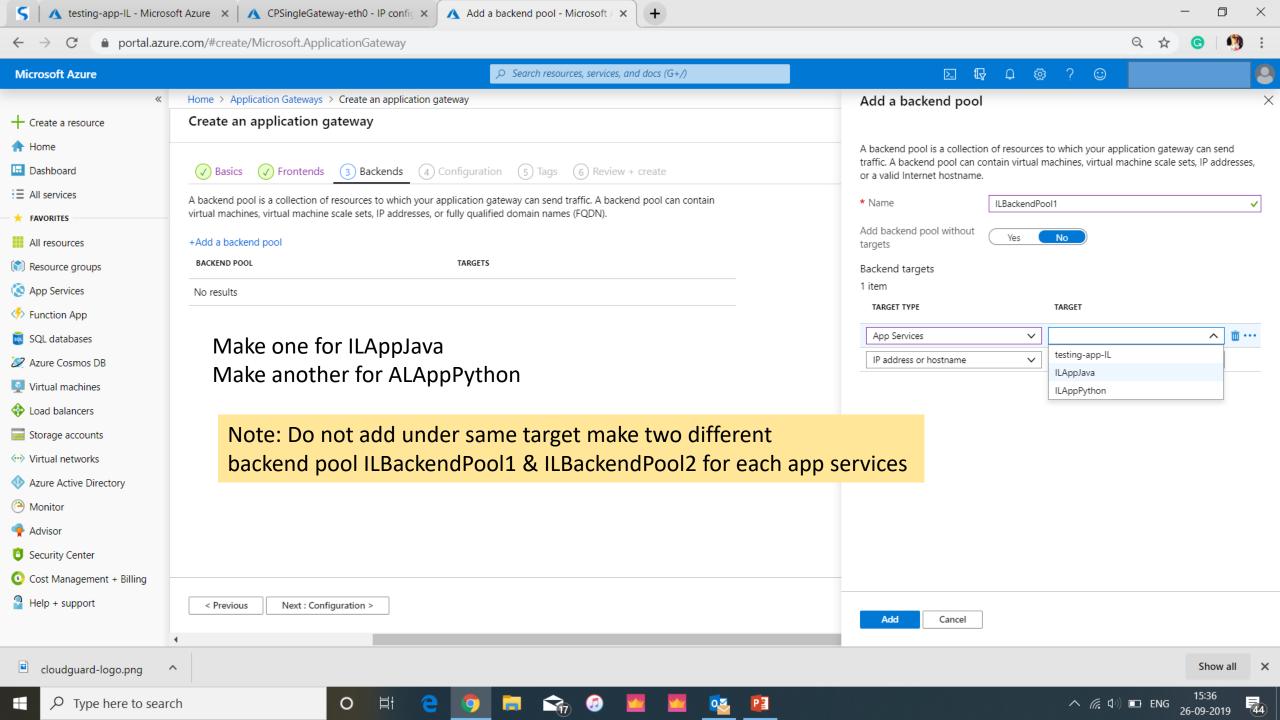


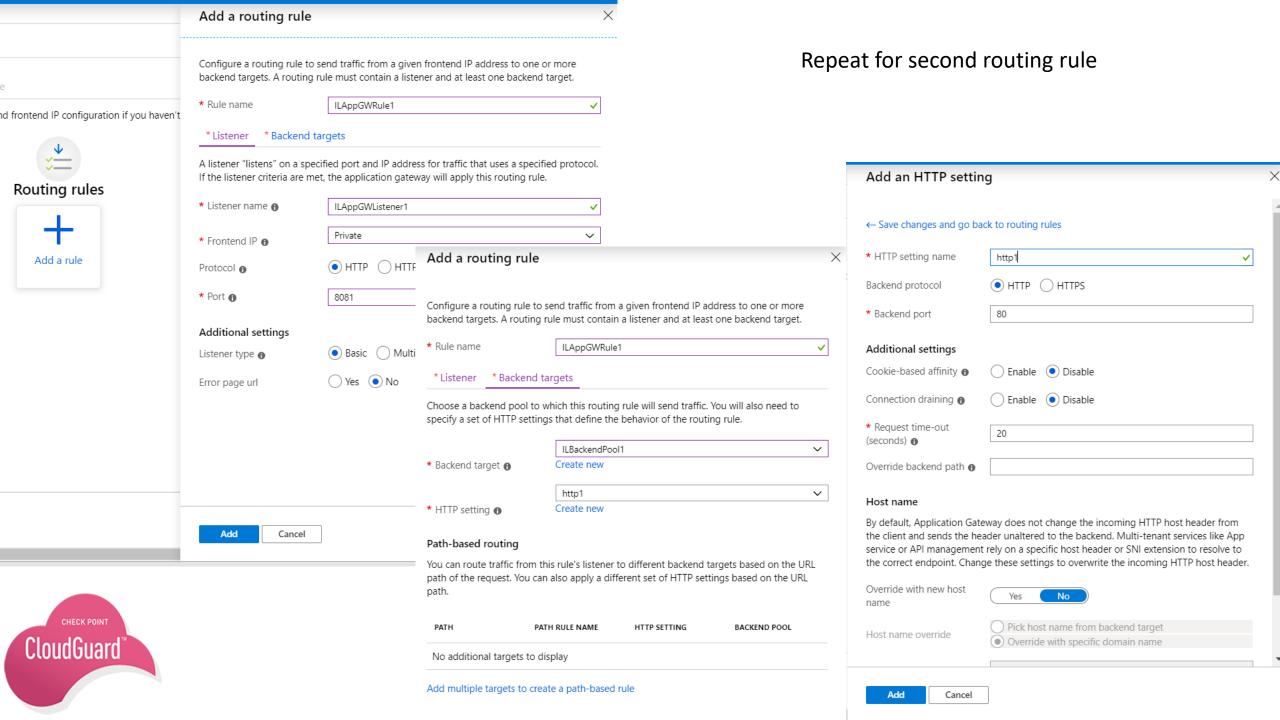


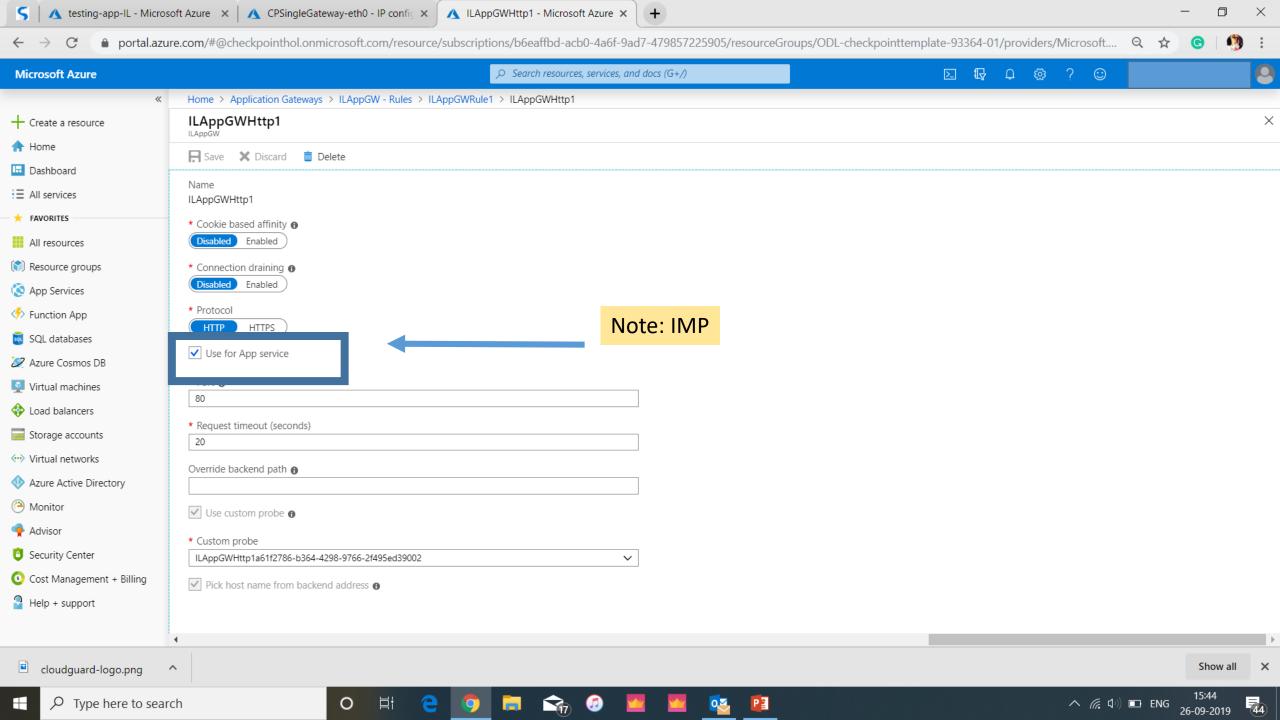
Create with both private and public IP Create a new public IP for AppGW







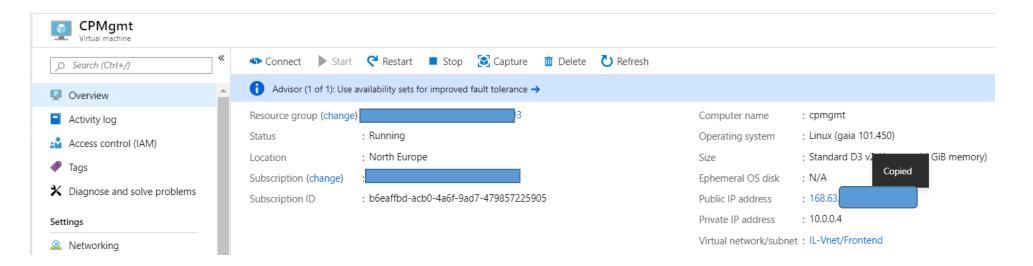




Configuration on CheckPoint Smart Console



Copy Public IP of CP Mgmt and open https://cpmgmtpublicip Gaia portal will get opened use Credentials (provided by you while configuring checkpoint management virtual machine in azure portal) to log in into cpmgmt.







Configuration for deploying CheckPoint CloudGuard Single Gateway on Smart Console

Note: we need to create single gateway only as management is already there. No need to do for secondary IP's

Gateway...

Cluster

VSX

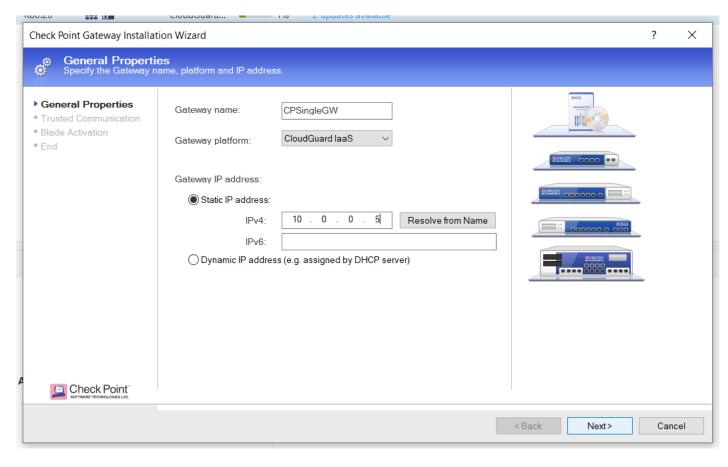
More

Actio

2.



3.



4.

configured the Check Point softw	are on the aateway CPSinaleGW.		
Gateway's Name:	CPSingleGW		
One-time password:	•••••		
Trust State:	Uninitialized		

Skip and initiate trusted communication later



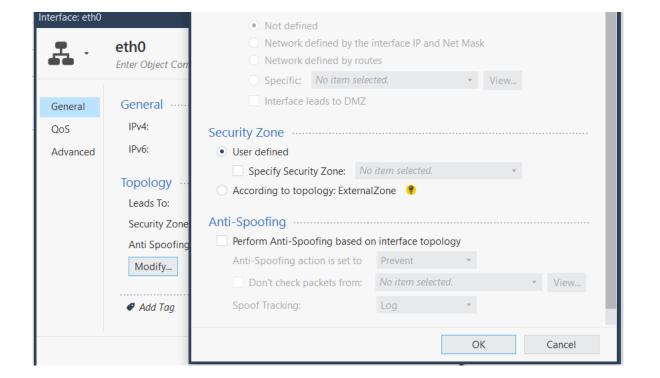
After creating gateway go to gateway properties and under network management do the following for each Ethernet

1. Name Topology IP Comments

tal reness r Agent

2. Untick Anti-spoofing for eth0

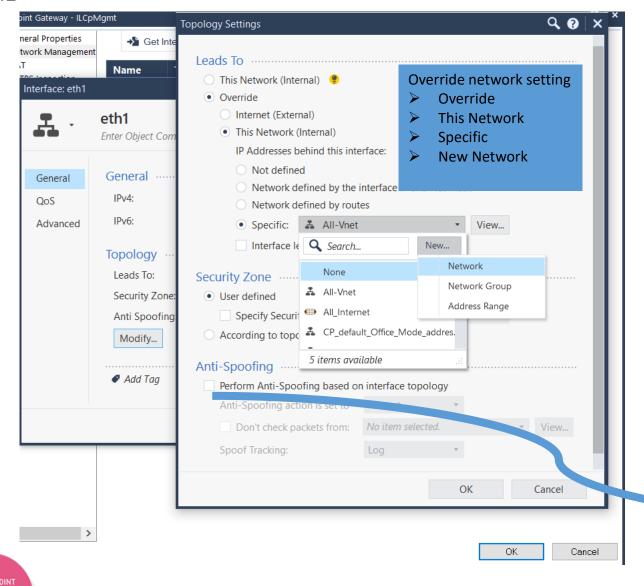


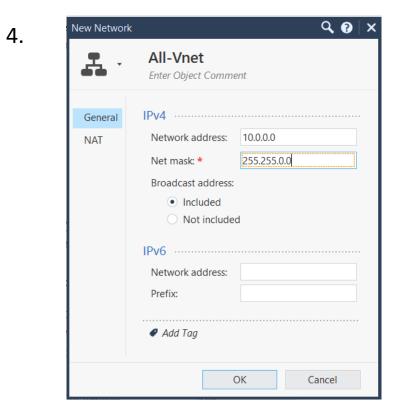


For eth1

CloudGuard

3.





5. Untick Anti-spoofing at the end for eth1.

- 1. Go to top left corner
- New Object

CPExtGW

Enter Object Comment

CPExtSecn2GW

Enter Object Comment

Machine

IPv4 address:

IPv6 address:

Add Tag

Machine

IPv6 address:

Add Tag

IPv4 address: 10.0.0.7

10.0.0.5

Host

General

NAT

Advanced

Servers

Host

General

NAT

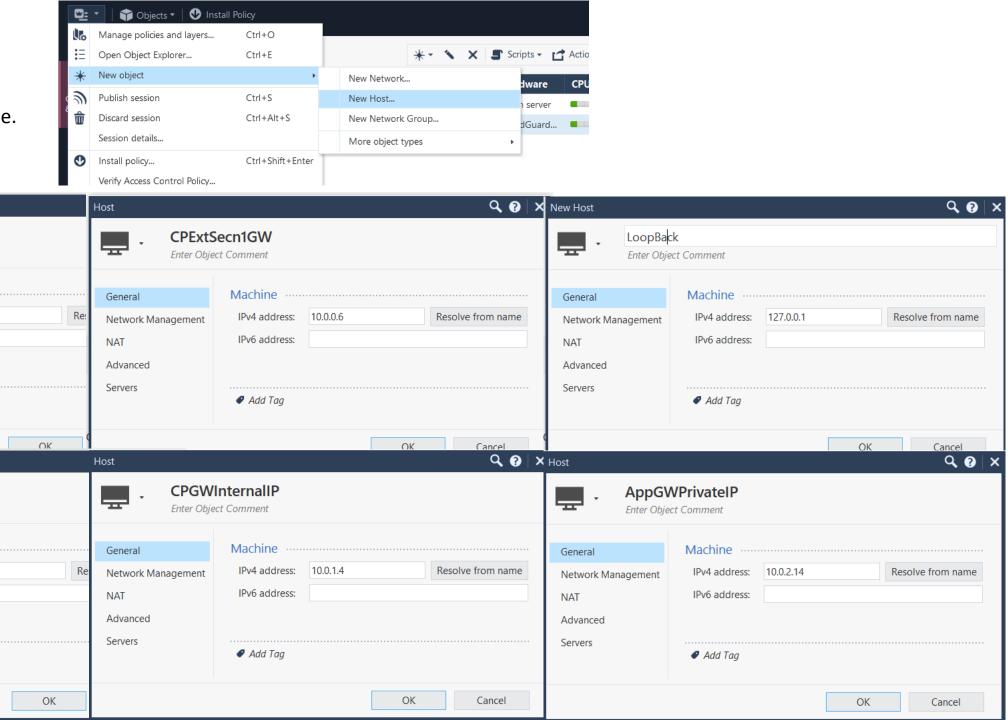
Advanced

Servers

Network Management

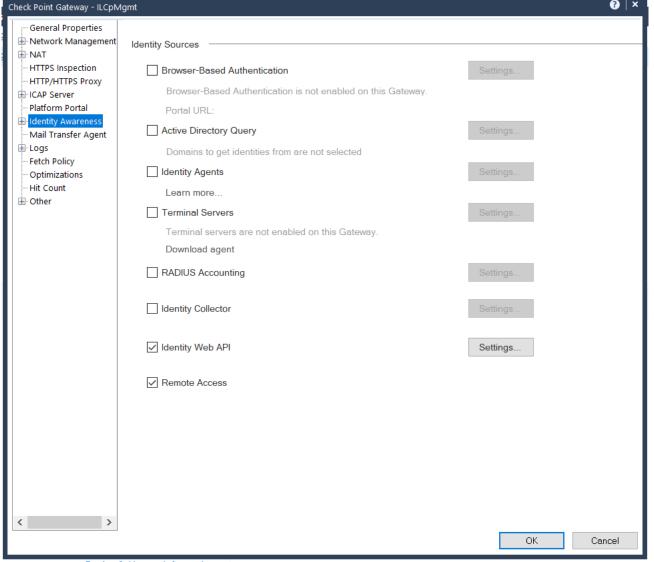
Network Management

New Host Create these all host for use.

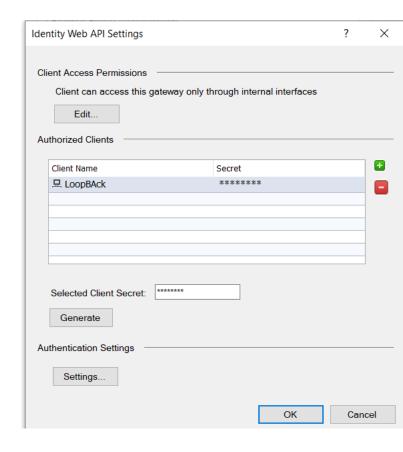


After enabling Identity awareness

- gateway general properties tab
- under Identity awareness
- Untick terminal services and choose identity web api



Choose previously defined Host LoopBack Here and save Selected client secret id for future use.

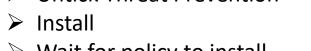


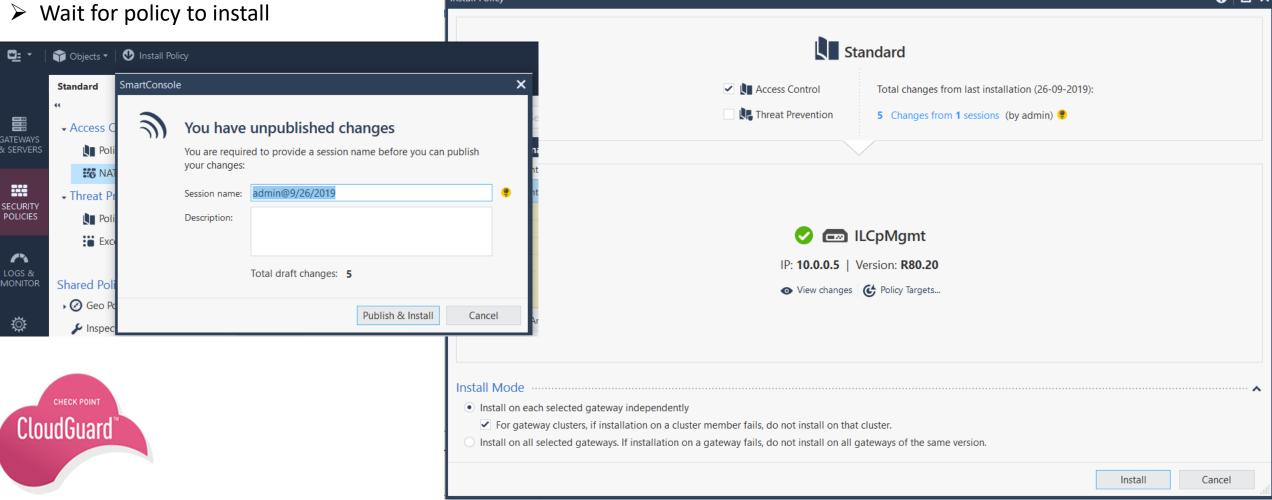


Install policy after every changes did on Smart console

Go to top left portion of console

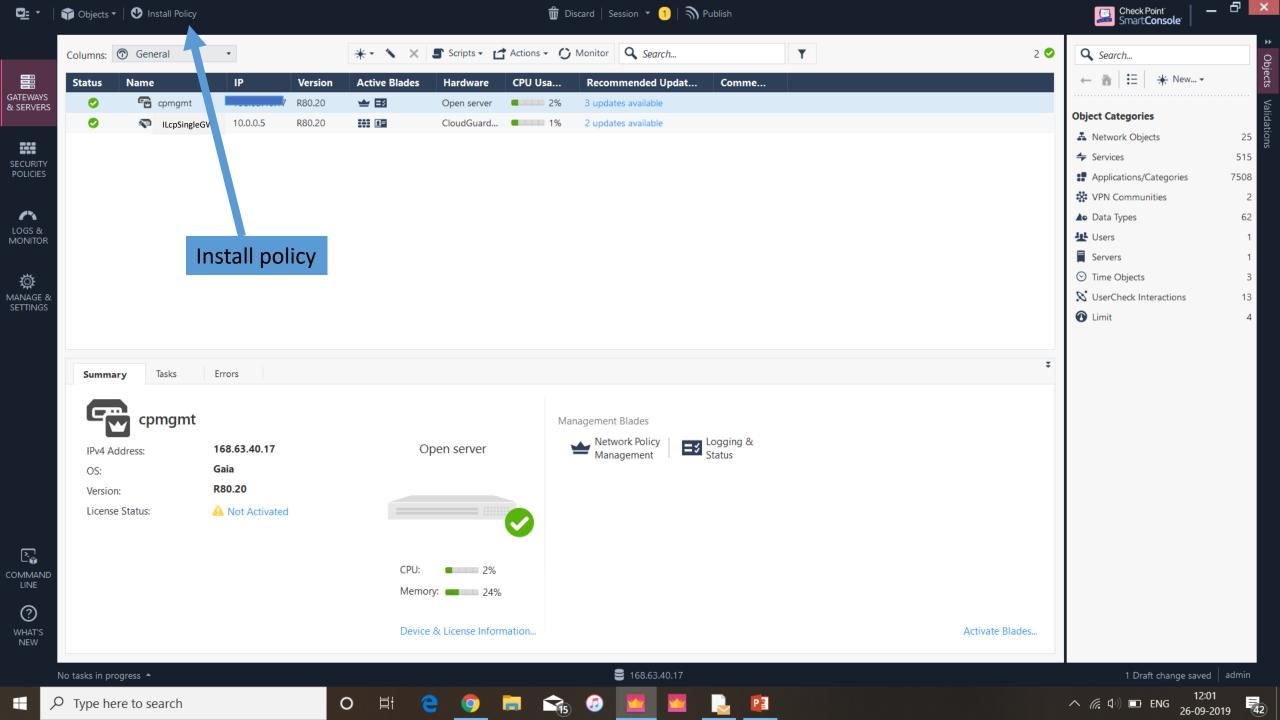
- > find Install Policy Icon
- Publish & Install
- ➤ Untick Threat Prevention





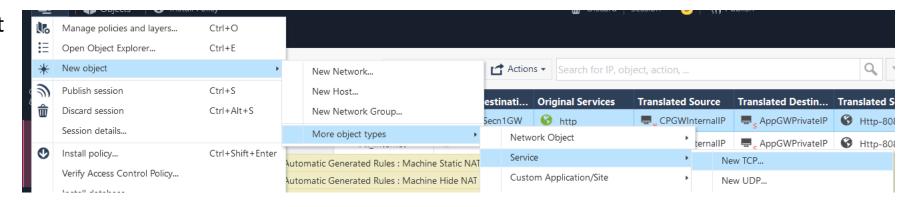
Install Policy

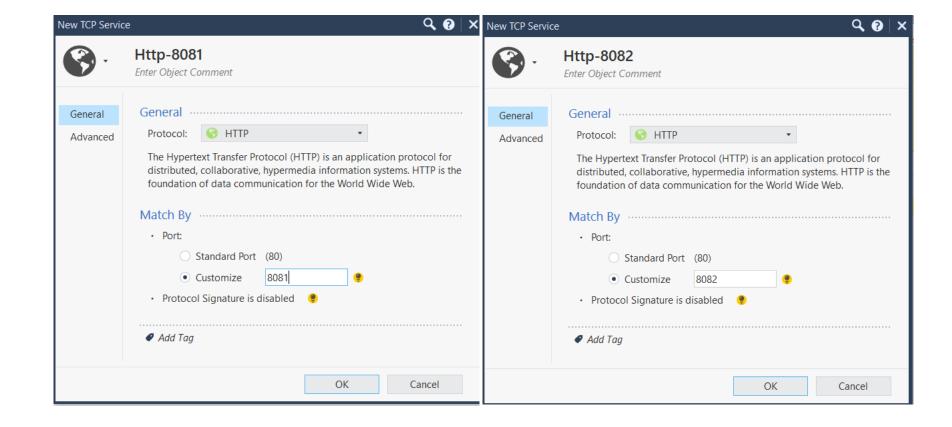
₽ □ ×



Let us create TCP object

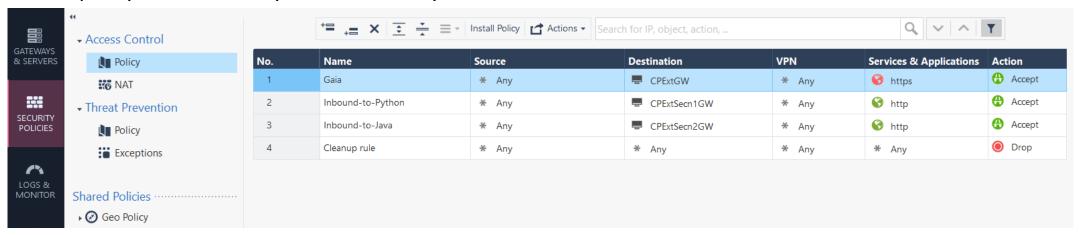
- > One for 8081
- > Other for 8082



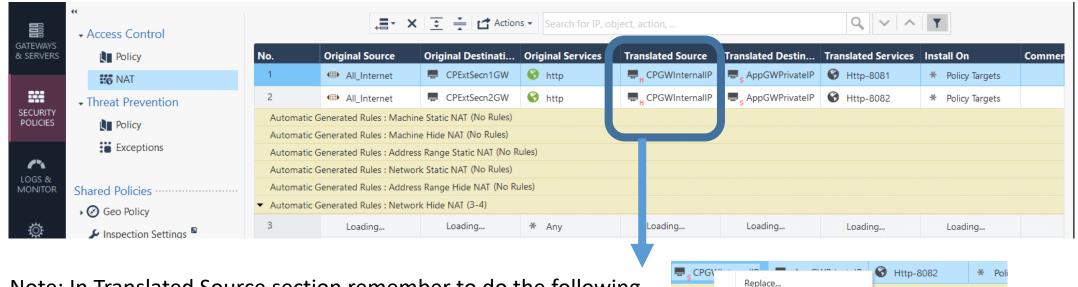




Create policy under Security Policies > Policy section



Create 2 NAT under same section



NAT Method

Edit Object...

Where Used...

Cut Copy Paste

Remove

Origi

Hide

Original

Stateful NAT64 Stateless NAT46

Note: In Translated Source section remember to do the following for both the NAT (Hide behind NAT):-



CloudGuard

Till here we are done with the smart console part

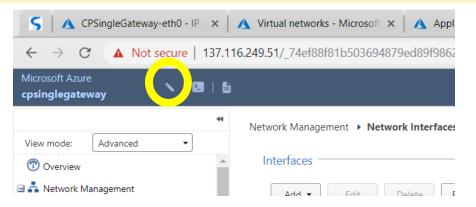
Now we will add the secondary IP's made in azure portal into our firewall interface
i.e we will make it learn the IP in order to work with them

Log Into your Gaia portal using Single Management Public IP (Public IP corresponding to primary interface 10.0.0.5)

Username as: admin

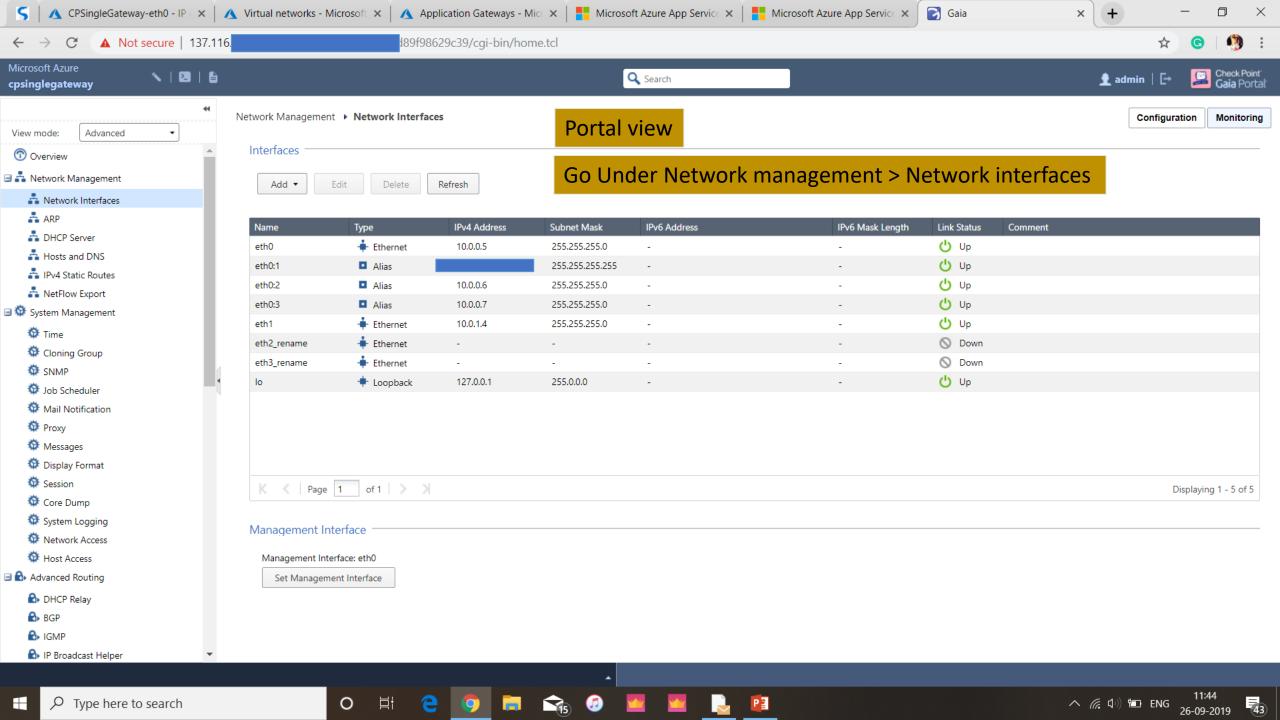
Password as: password that you kept during Checkpoint CloudGuard setup(In Azure)

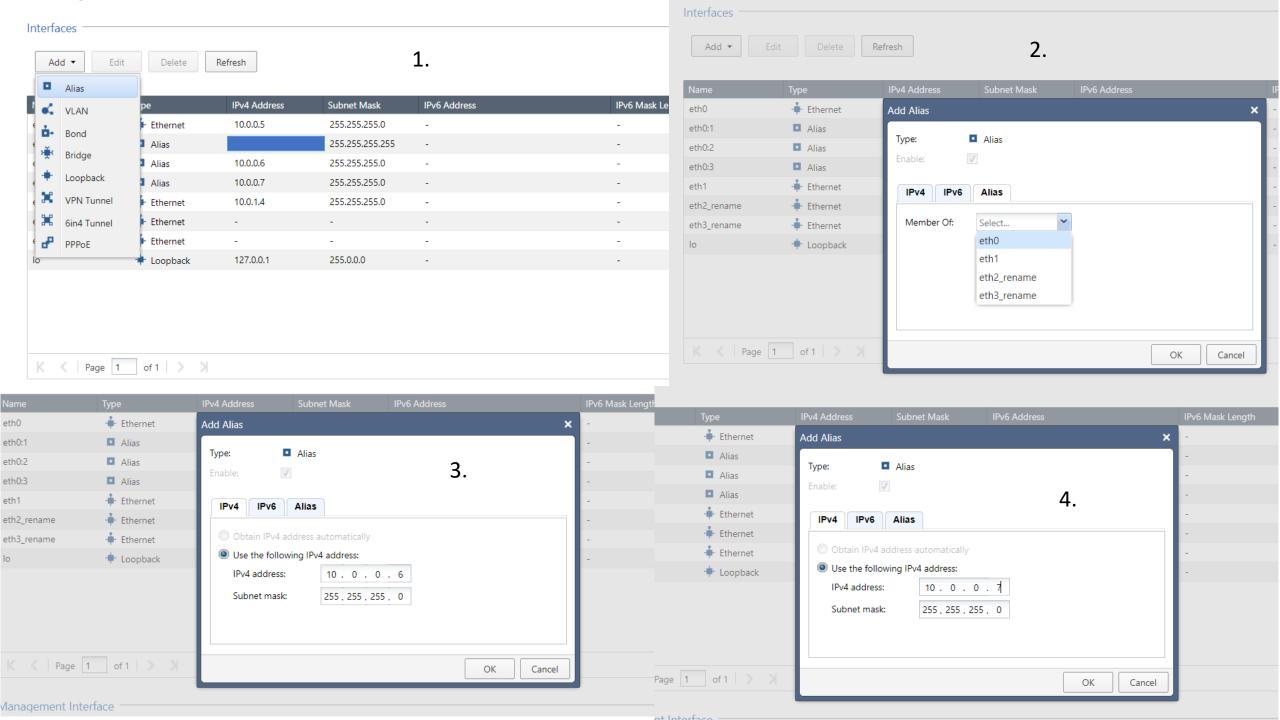
If a lock appears in the highlighted section shown below do click on it and acquire access to write permission



Follow rest as shown in picture

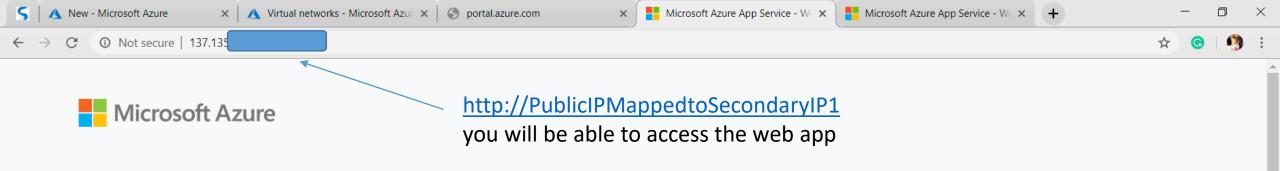






Testing





Hey, Java developers!

Your app service is up and running. Time to take the next step and deploy your code.

Have your code ready? Use deployment center to get code published from your client or setup continuous deployment.

Deployment Center

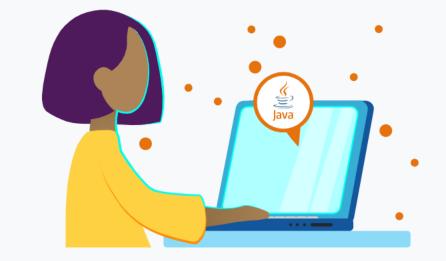
Don't have your code yet? Follow our quickstart guide and you'll have a full app ready in 5 minutes or

Quickstart

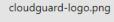
Technical Information

java.version: 11.0.2

java.home: /usr/lib/jvm/zulu-11-azure-jre-headless-tools_11.29.3-11.0.2-linux_musl_x64

































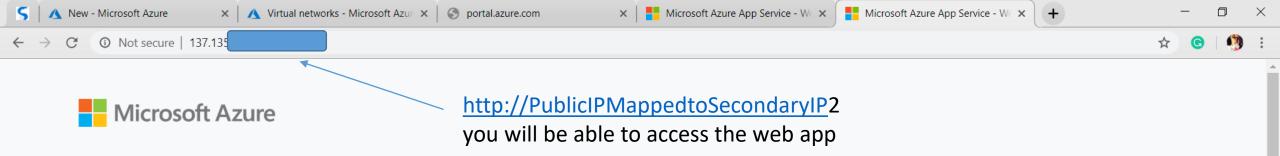






Show all





Hey, Python developers!

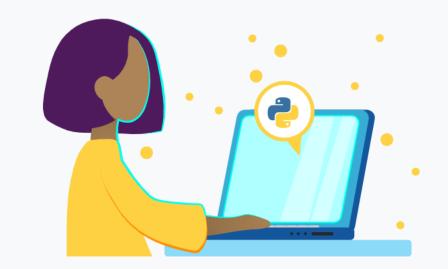
Your app service is up and running. Time to take the next step and deploy your code.

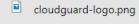
Have your code ready? Use deployment center to get code published from your client or setup continuous deployment.

Deployment Center

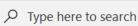
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Quickstart



































Show all

Thank You

