NETWORK SECURITY GROUPS AND APPLICATION SECURITY GROUPS

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Lab scenario

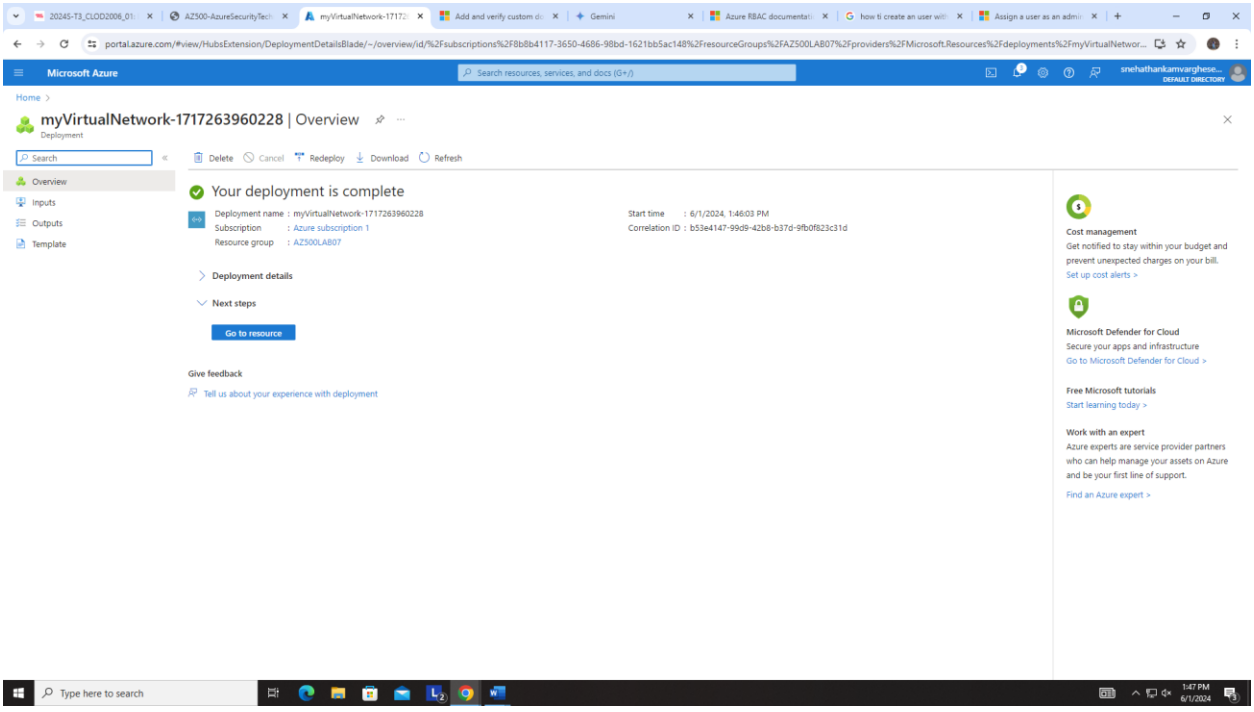
You have been asked to implement your organization's virtual networking infrastructure and test to ensure it is working correctly. In particular:

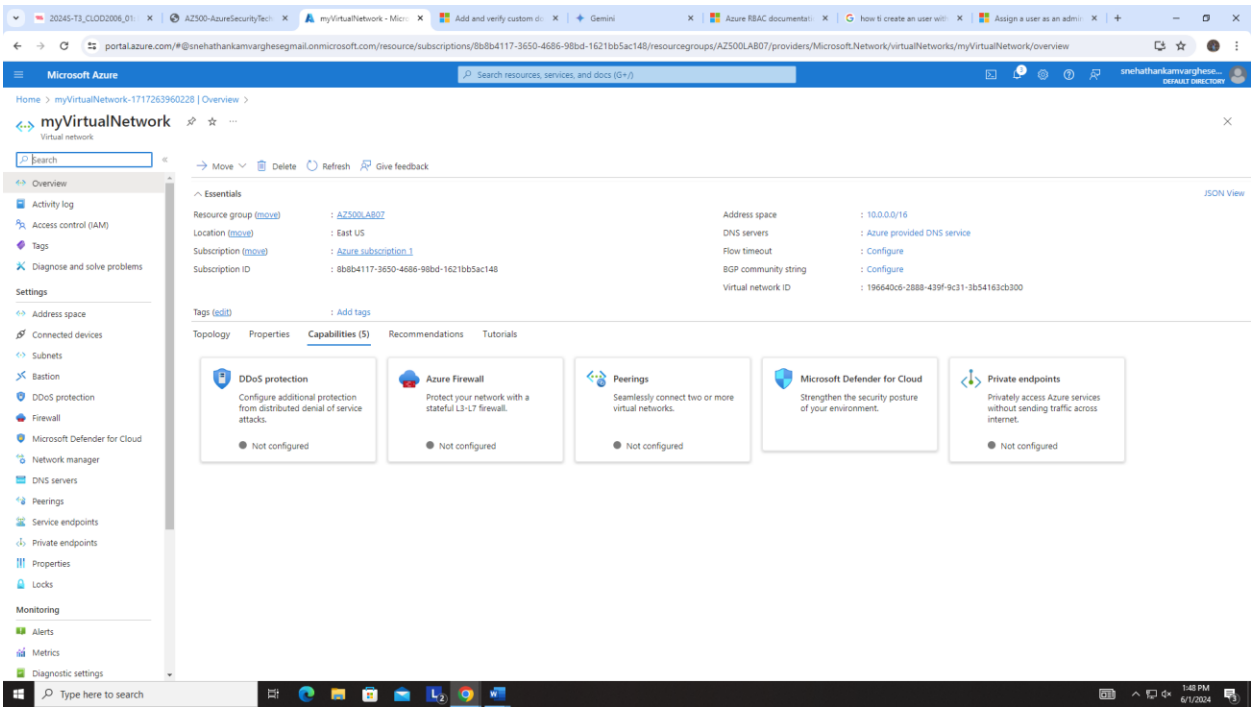
- The organization has two groups of servers: Web Servers and Management Servers.
- Each group of servers should be in its own Application Security Group.
- You should be able to RDP into the Management Servers, but not the Web Servers.
- The Web Servers should display the IIS web page when accessed from the internet.
- Network security group rules should be used to control network access.

Lab Link

Exercise 1: Create the virtual networking infrastructure

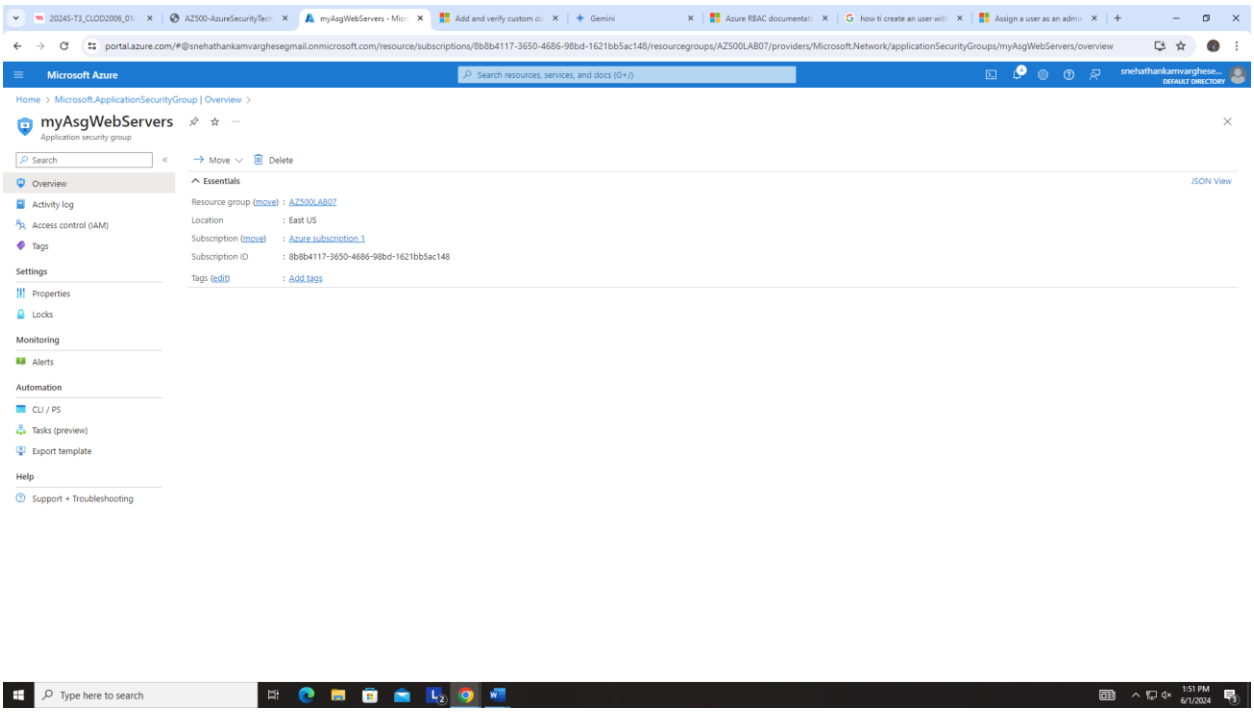
Task 1 : Create a Virtual Network



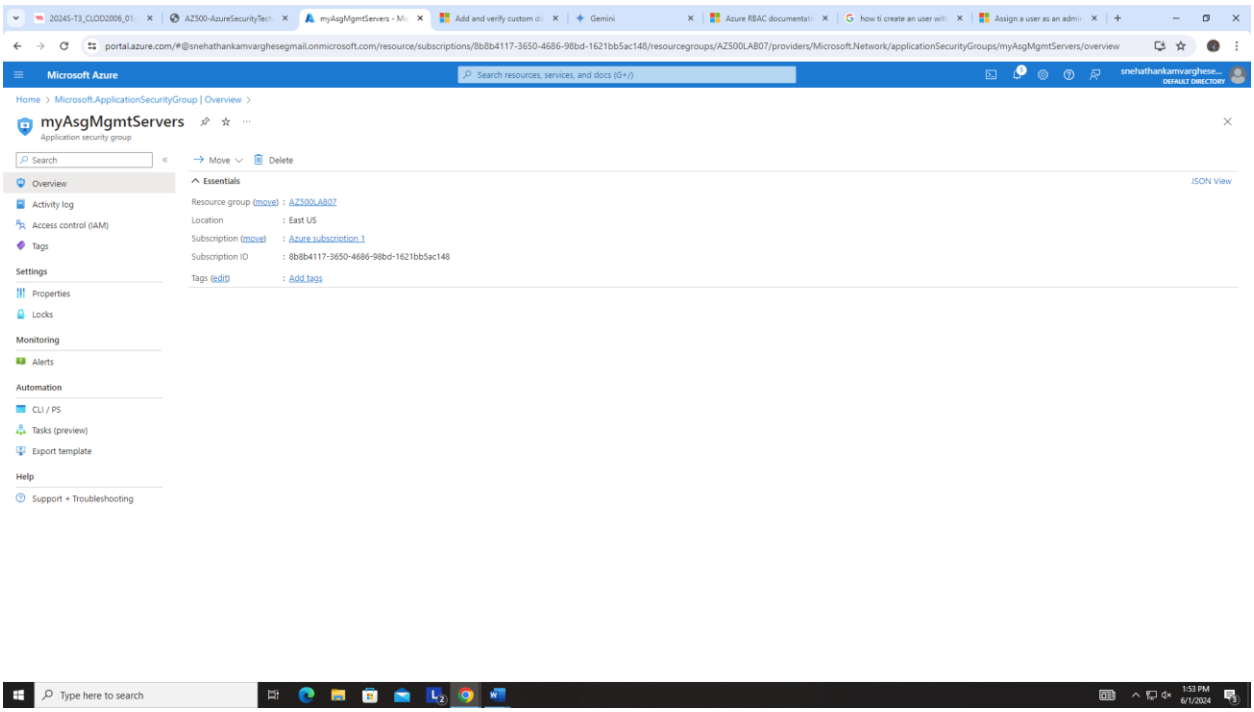


Task 2: Create application security groups

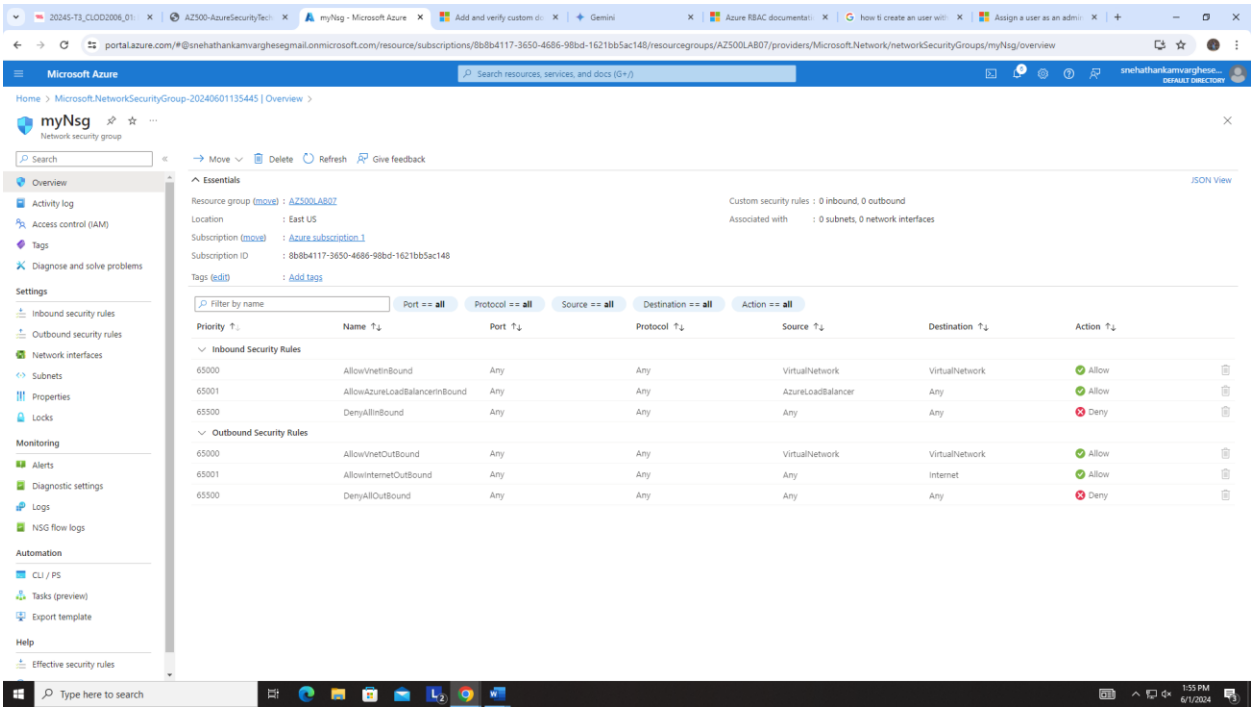
Application security group will be for the web servers.



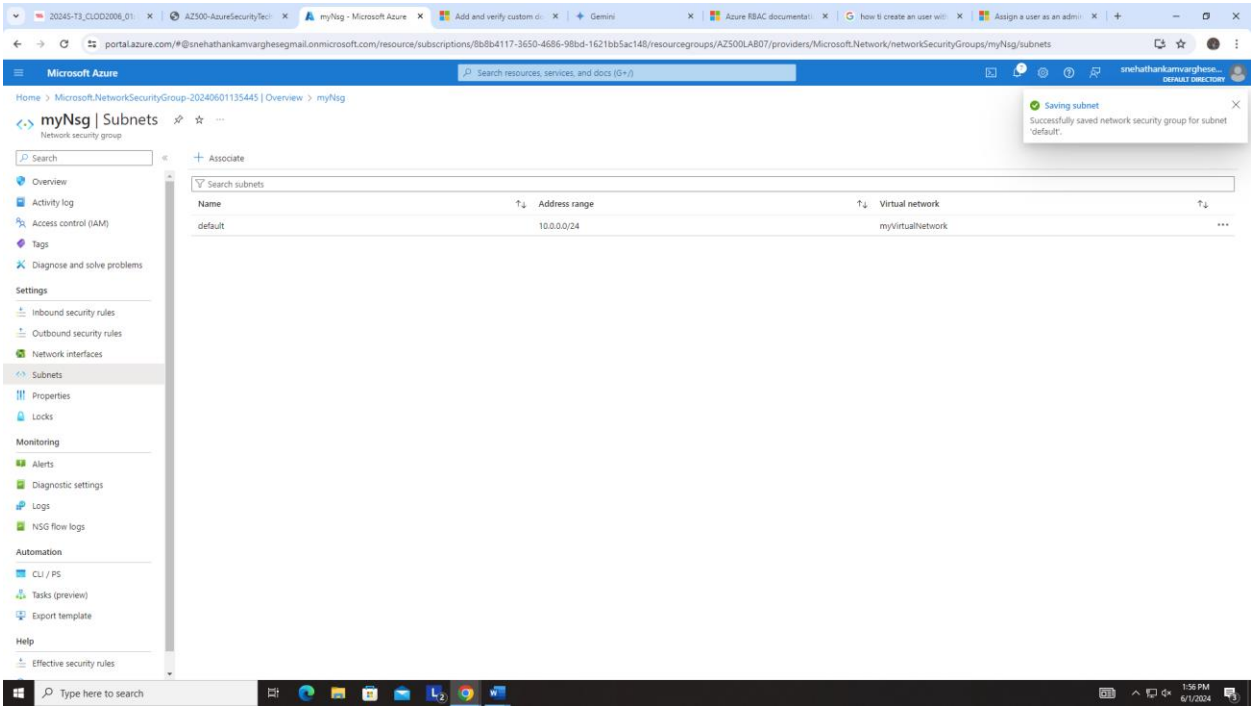
The application security group will be for the management servers.



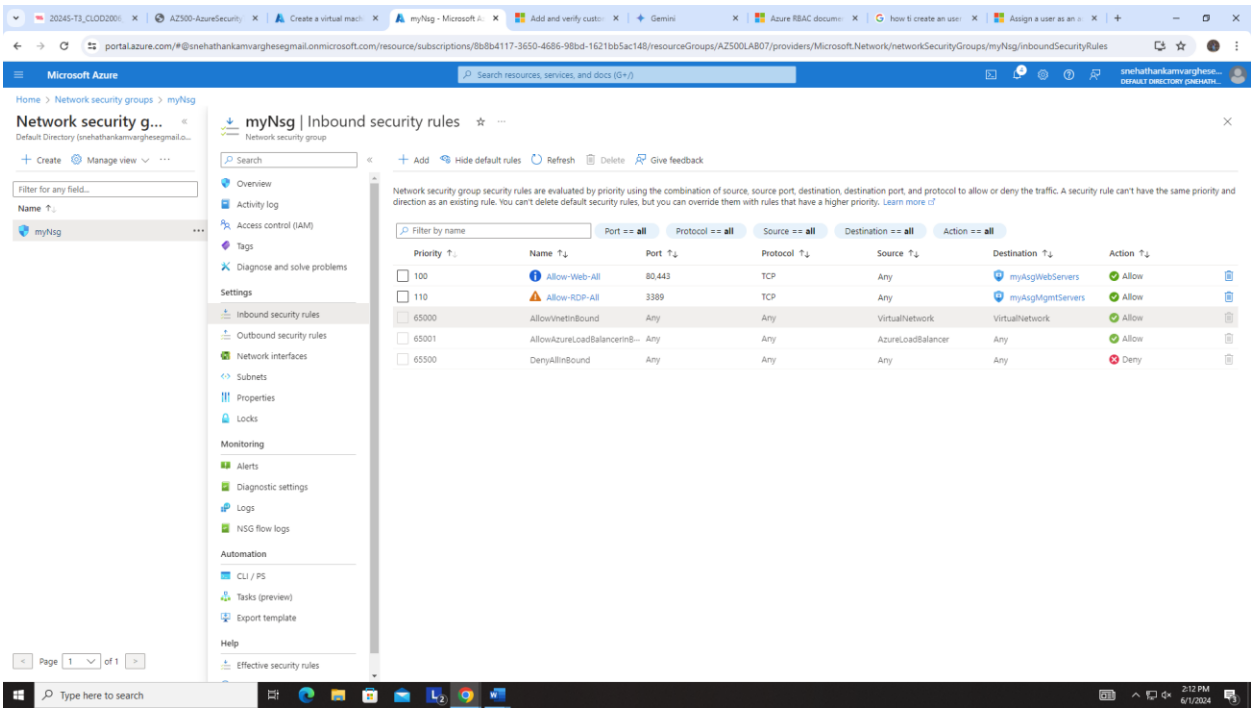
Task 3: Create a network security group and associate the NSG to the subnet



Associating subnet to the Network Security Group

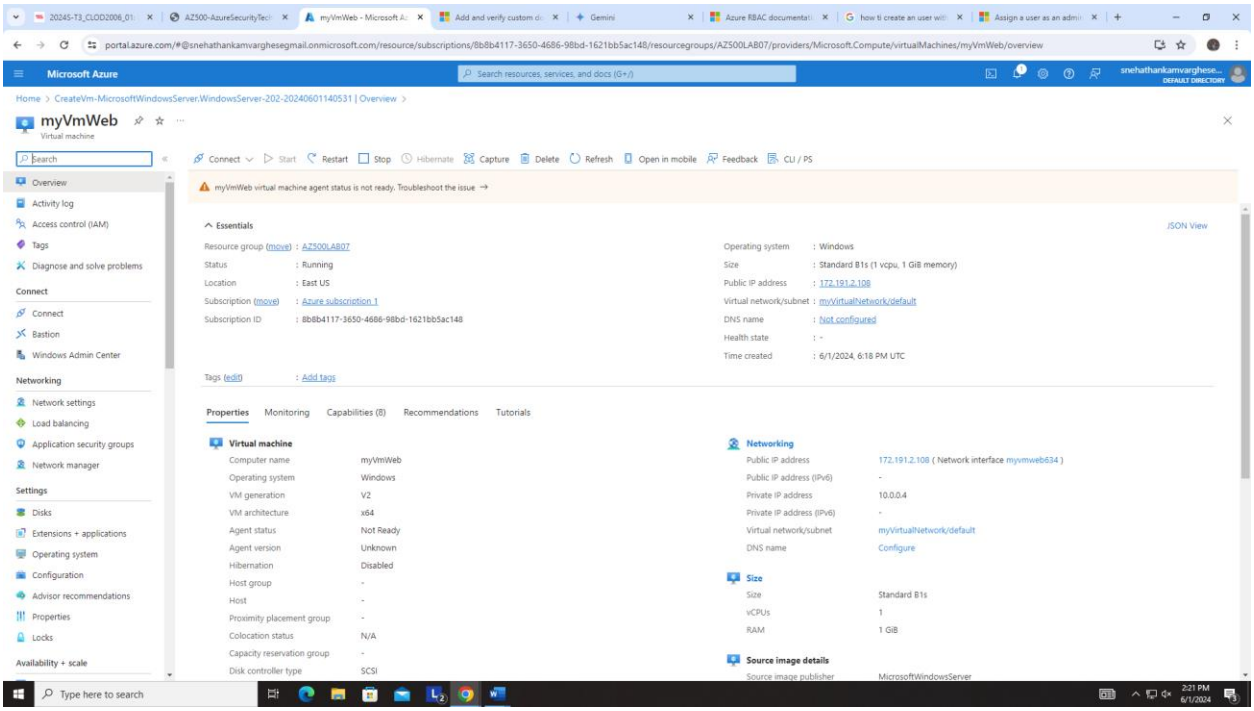


Task 4: Create inbound NSG security rules for all traffic to web servers and RDP to the servers.

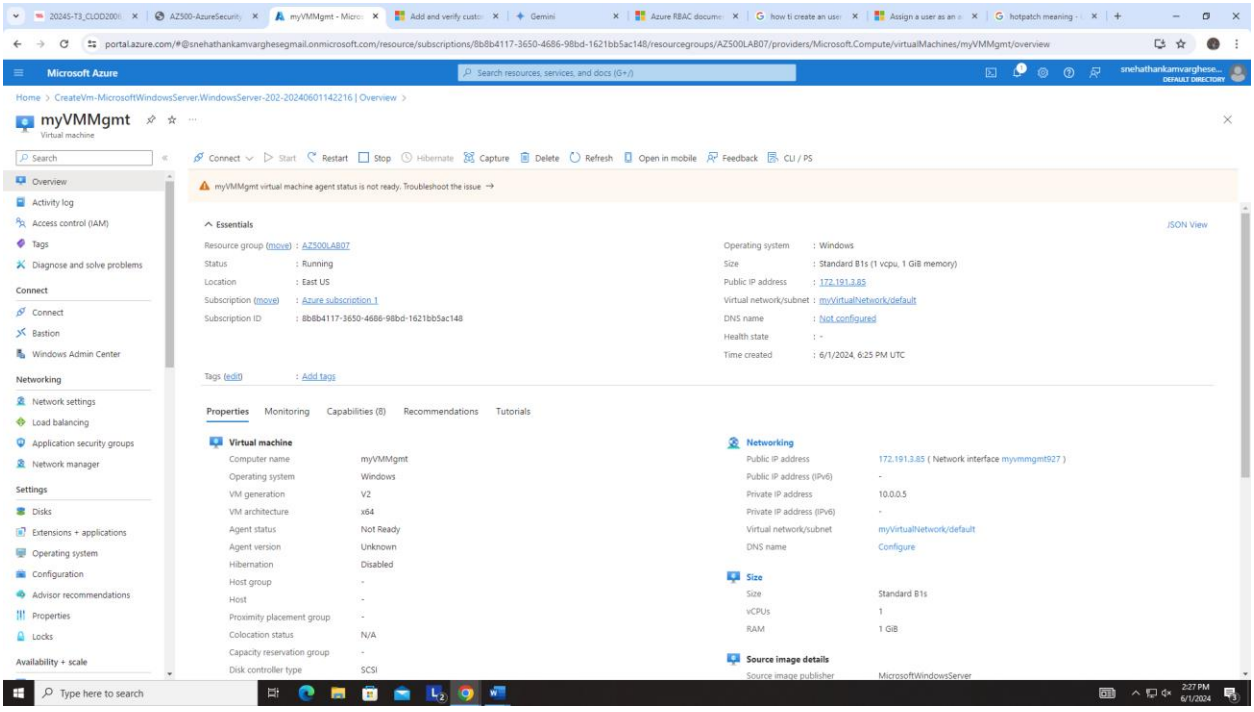


Exercise 2: Deploy virtual machines and test network filters.

Task 1: Create a virtual machine to use as a web server.

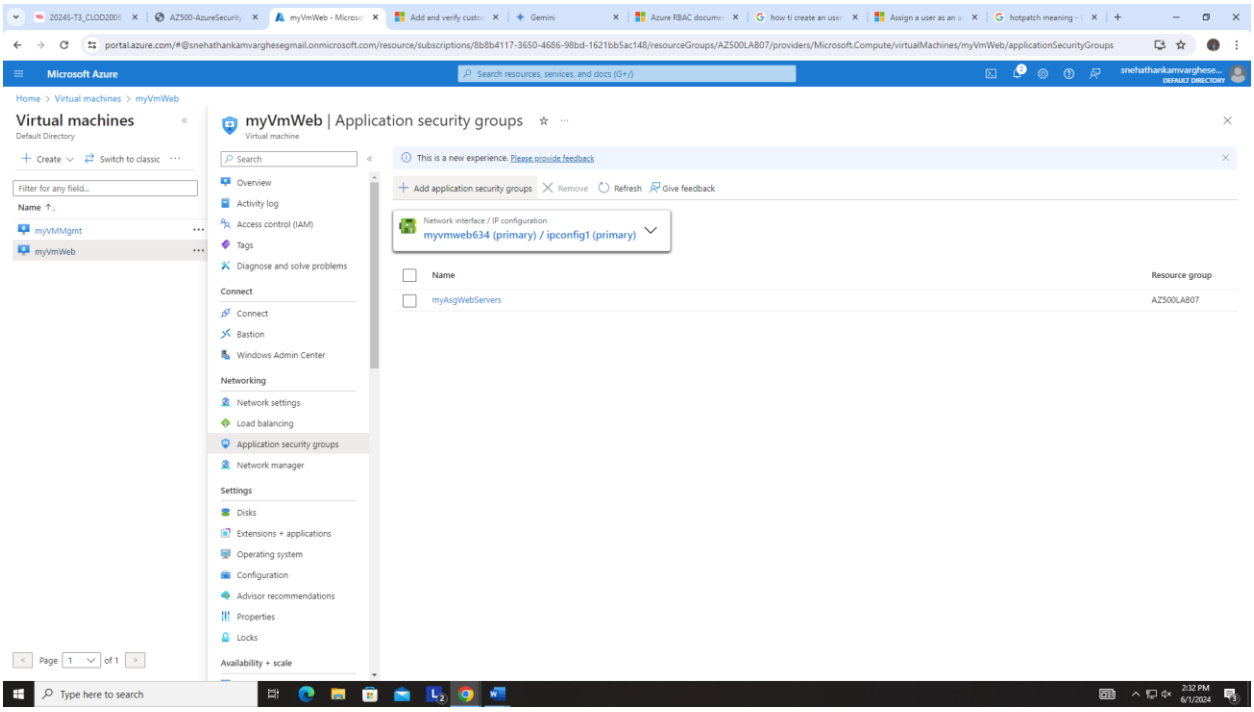


Task 2: Create a virtual machine to use as a management server.

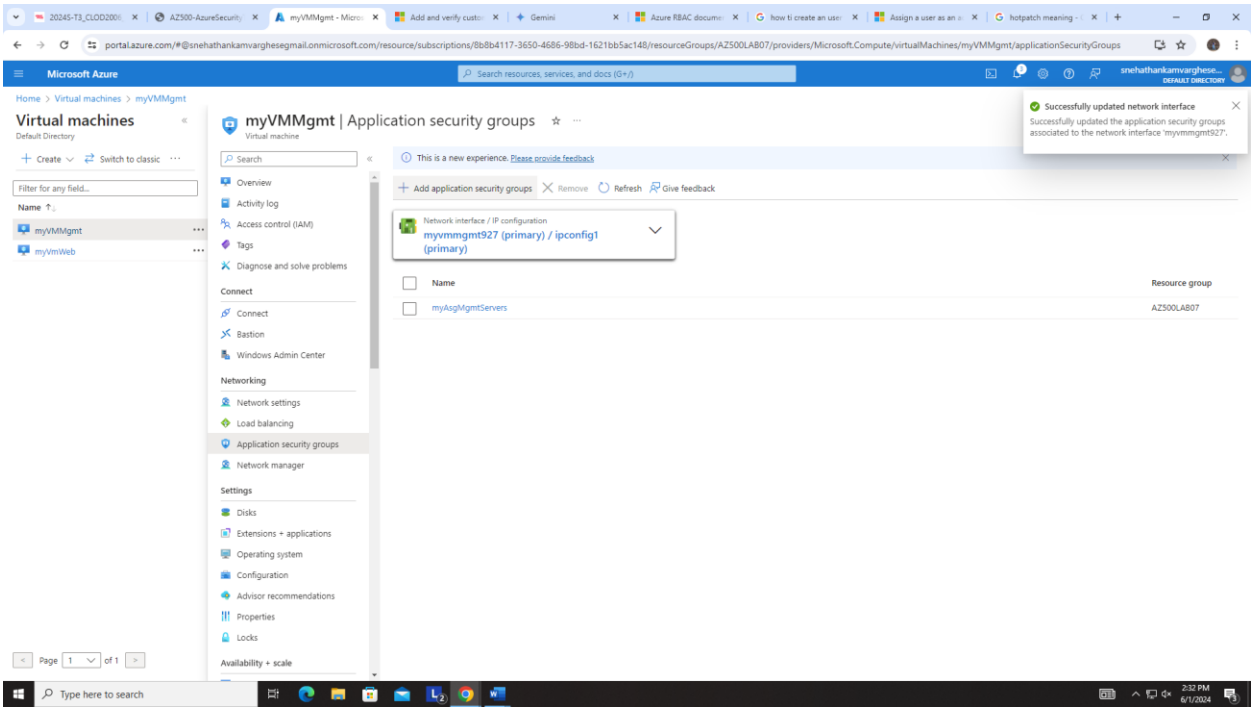


Task 3: Associate each virtual machines network interface to its application security group.

The myVMWeb virtual machine interface associated to the myAsgWebServers ASG

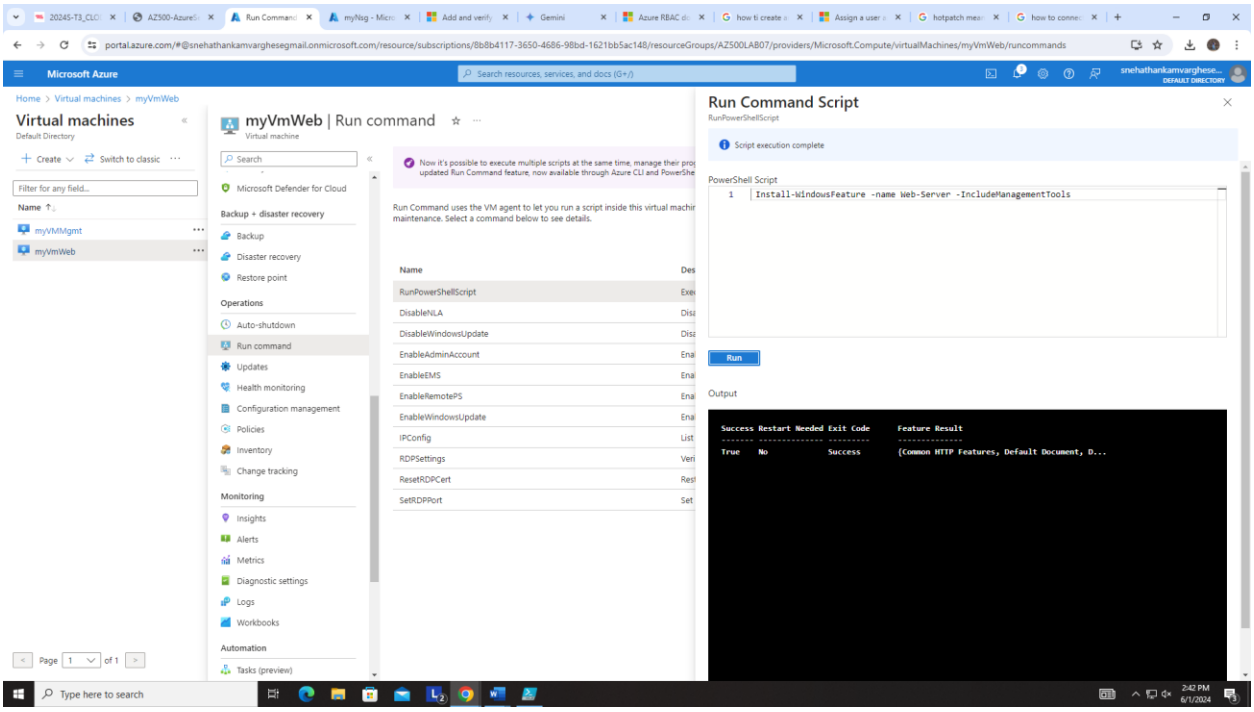


The myVMMgmt virtual machine interface associated to the myAsgMgmtServers ASG.



Task 4: Test the network traffic filtering

Verified myVMWeb can be accessed via HTTP/HTTPS.



Verified the Public IP of WebServer is accessible.