DEVOPS with MULTI-CLOUD
Practice Tasks

Institute Name : V Cube software solutions
Course **:** DevOps with Multi-Cloud
Batch **:** 30
Trainer **:** Krishna reddy sir

Prepared by **:** G.Bhavish
(MCD-AZ30-024)

TASK-7 : Application Security Group (ASG).

Date : 29/01/26

Objective :-

To implement an Azure Application Security Group (ASG) to logically group virtual machines and simplify Network Security Group (NSG) rules by controlling traffic based on application roles rather than IP addresses.

Application Security Group (ASG) :-

→ The application security group will logically group the virtual machines and tags them so that it becomes easier for the nsg to create rules.
→ The ASG helps the NSG to create rules with the tags rather than the ip addresses.
→ Application security group scales automatically when the virtual machines are added.
→ To maintain the virtual machine more precisely we use the ASG.
→ The prerequisite of the ASG is it works within the virtual network.

To Implement the ASG :-

→ Create VM-WEB under the resource group RG01 and virtual network VN01 with subnet SN-WEB.

→ Create VM-APP under the resource group RG01 and virtual network VN01 with subnet SN-APP.

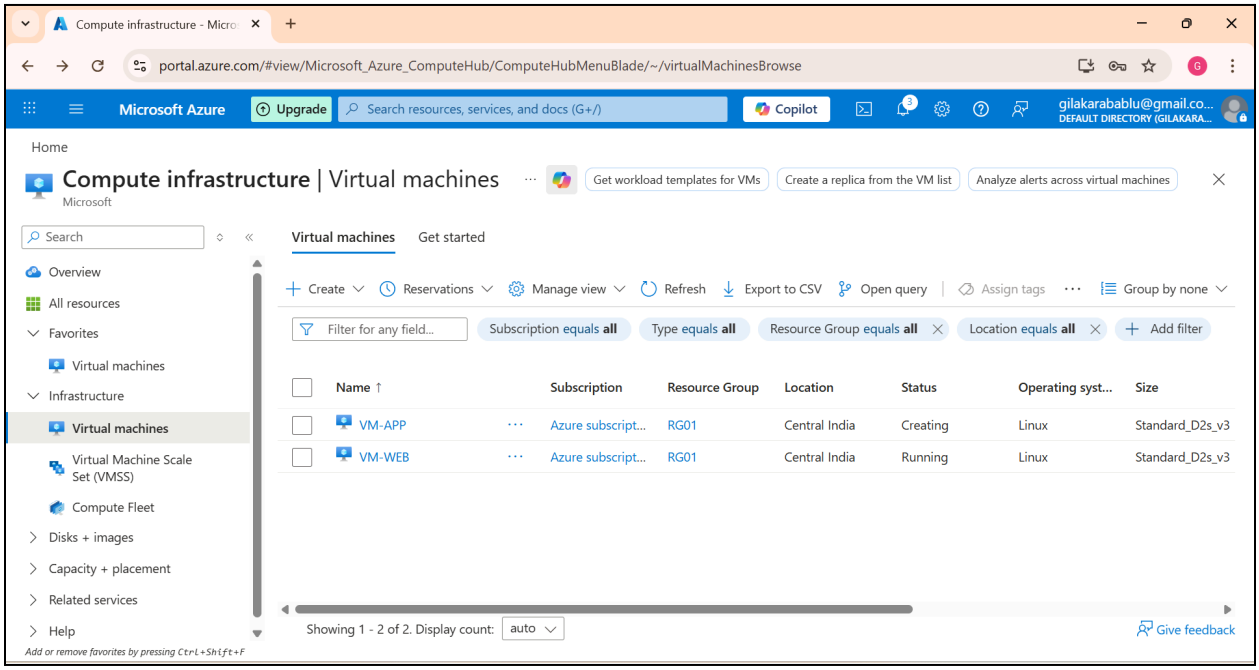


Fig (1) successfully created vm-web and vm-app.

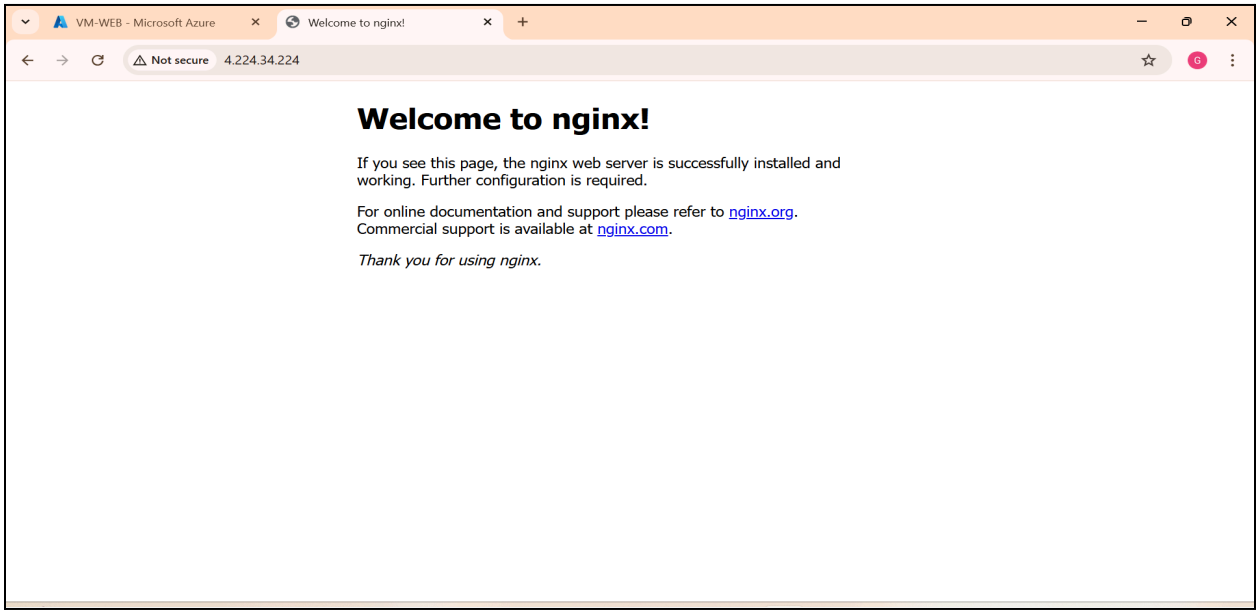
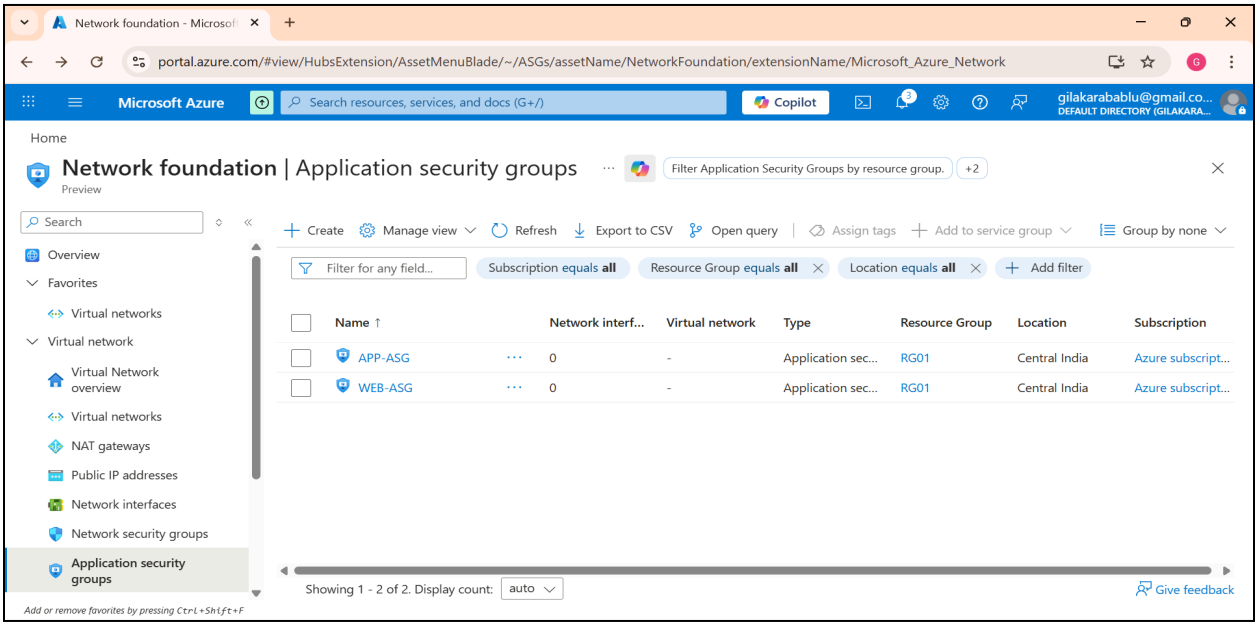


Fig (2) successfully installed nginx in vm-web.

→ Normally created nsg for vm-web to validate and deleted after successfully installing nginx.

→ Now create asg for the virtual machines vm-web & vm-app.



fig(3) successfully created asg for both vm's

→ Now we need to add these asg to their respective virtual machines.

→ Now we can create NSG and write rules using the asg tags.

→ While writing the rules we will use the asg tags instead of the ip addresses.

- For eg:- In the source and destination of the nsg rules we will mention the asg tags rather than the virtual machines ip addresses.

→ After creating the nsg and writing the rules we need to associate it to the nic-level of the virtual machines.

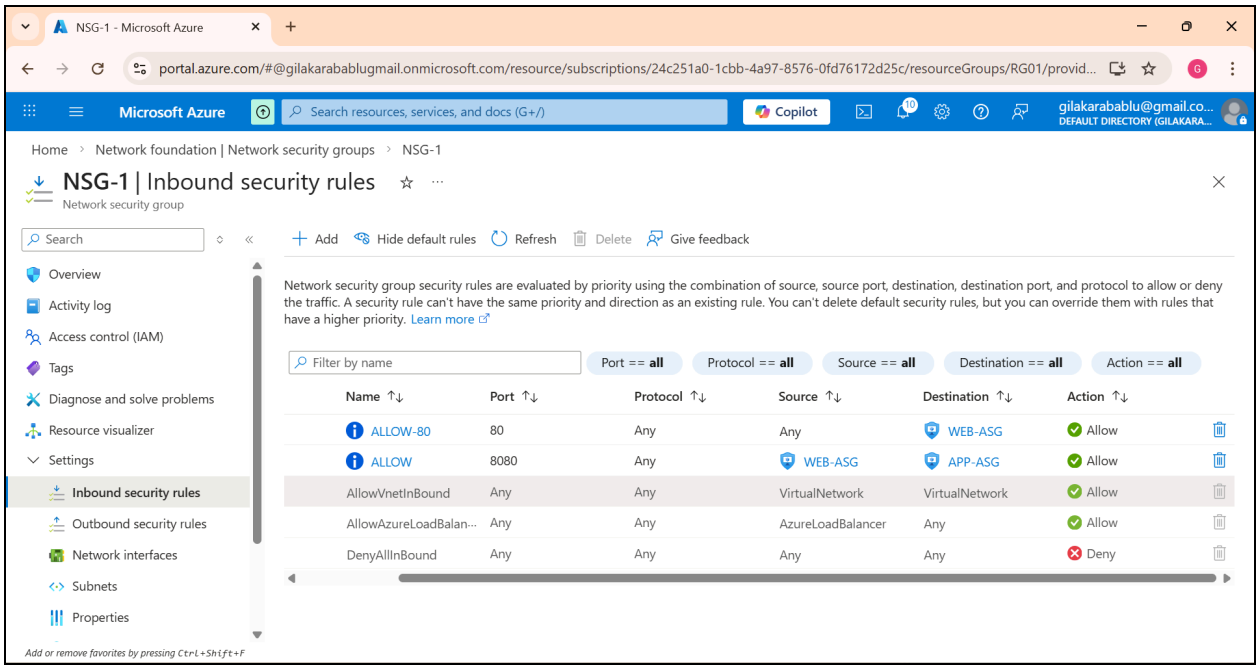


fig (4) successfully created nsg and the rules with asg tags.

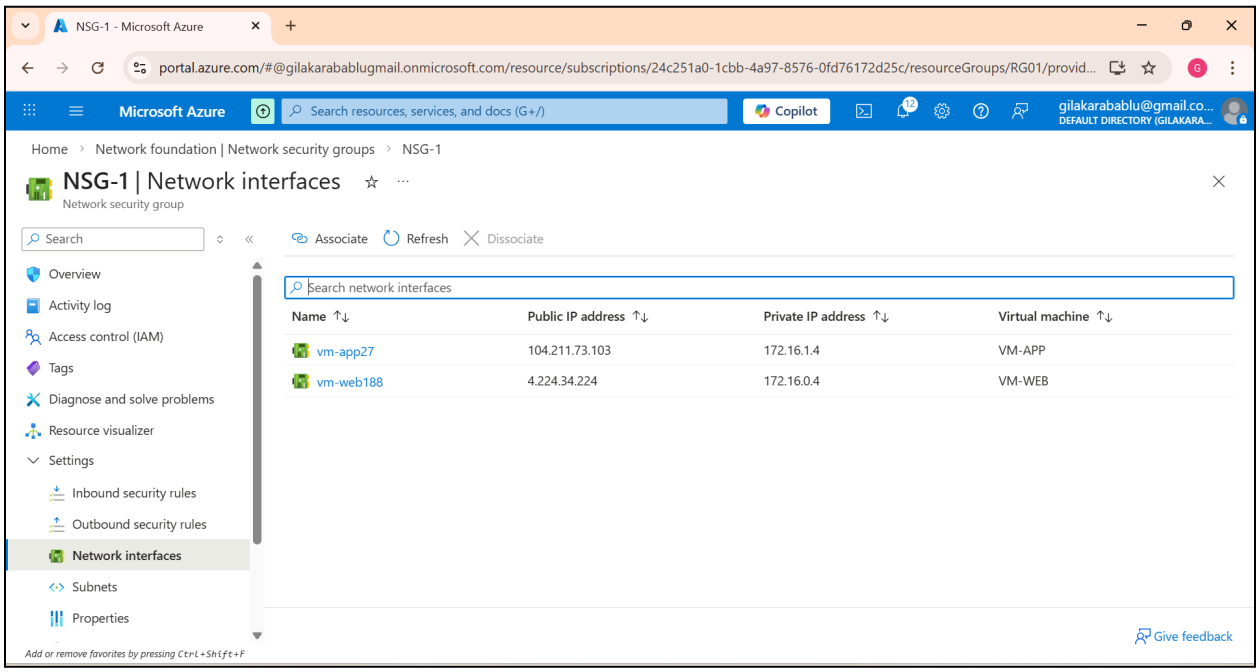


Fig (5) successfully associated the nsg to the vm's.