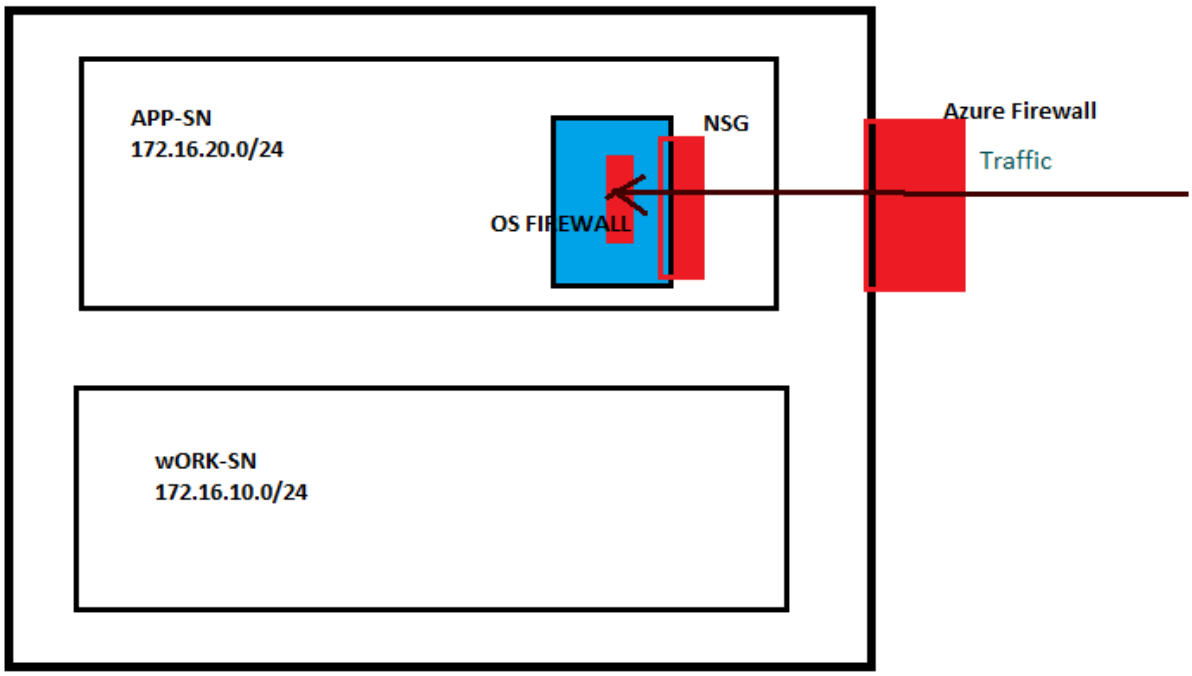
NSG (Network Security Group)



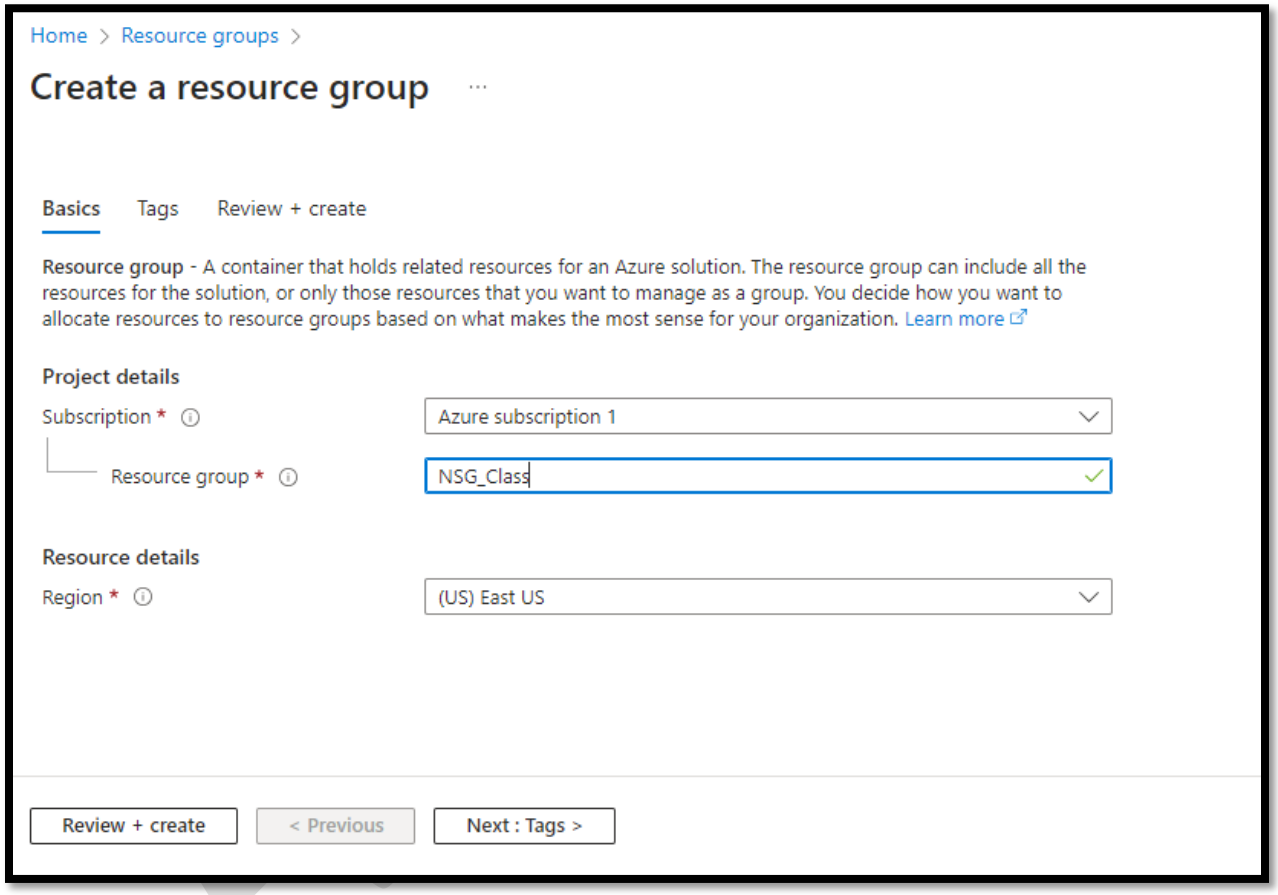
A network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources. For each rule, you can specify source and destination, port, and protocol.

How to Create a NSG and Create Rules for it in Azure

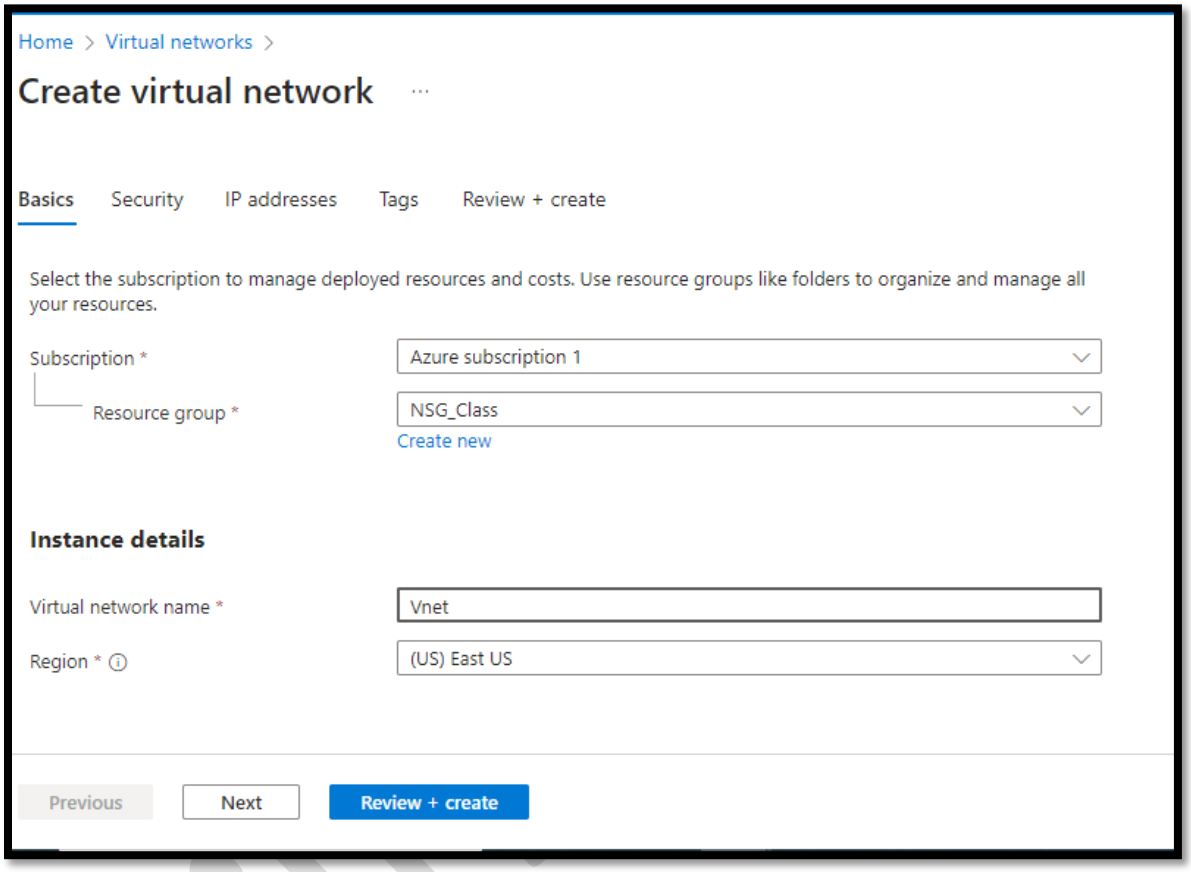
- ✓ **STEP 1:** Create Resource Group
- ✓ **STEP2:** Create Vnet and Subnets
- ✓ **STEP3:** Create NSG
- ✓ **STEP4:** Create Virtual Machine

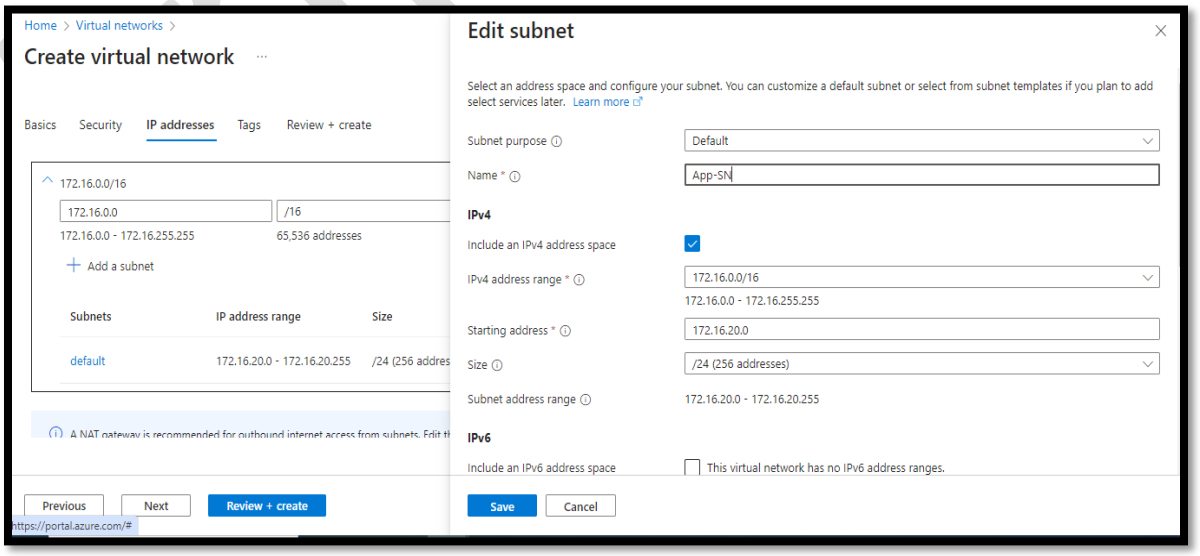
✓ **STEP5:** Import Security Rules

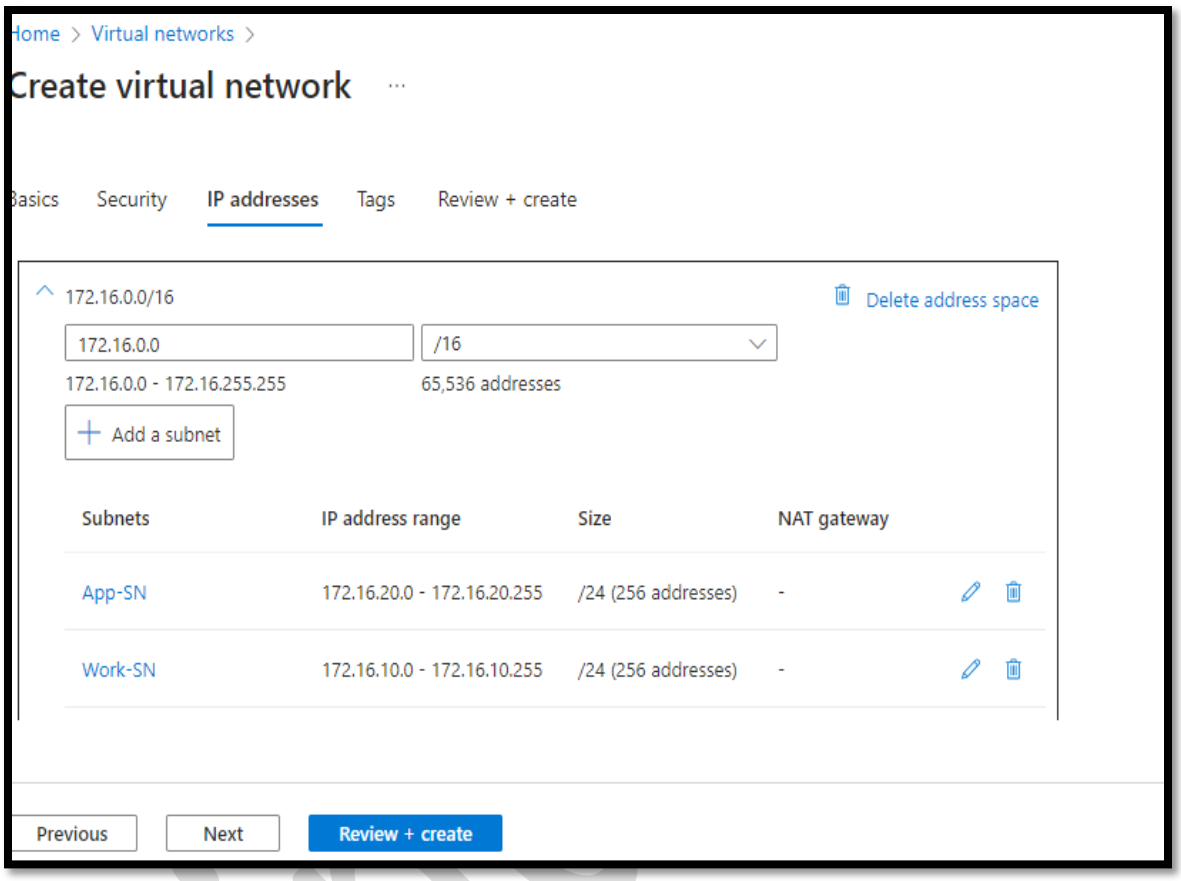
STEP 1: *Create Resource Group*



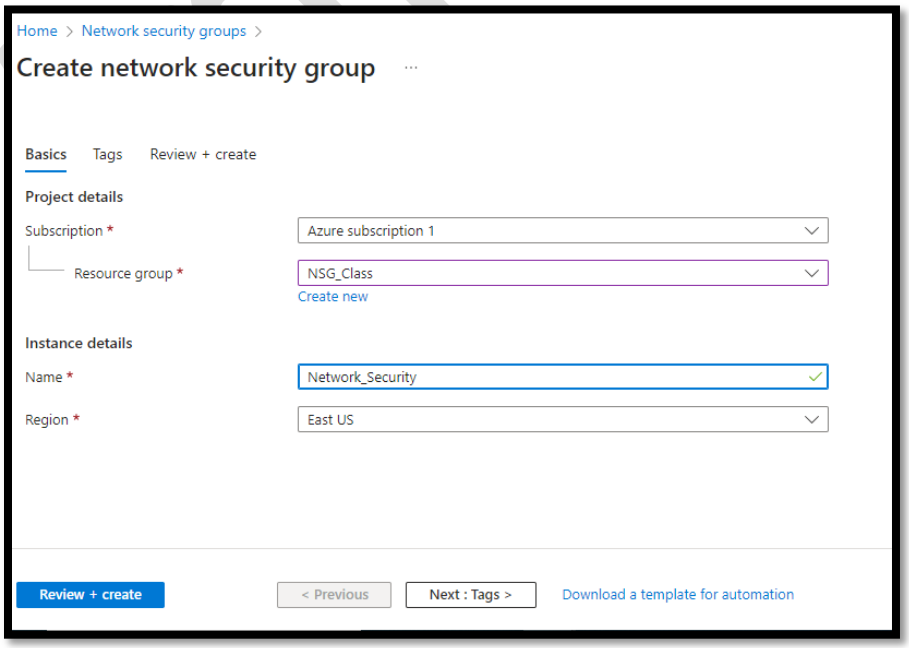
STEP2: *Create Vnet and Subnets*

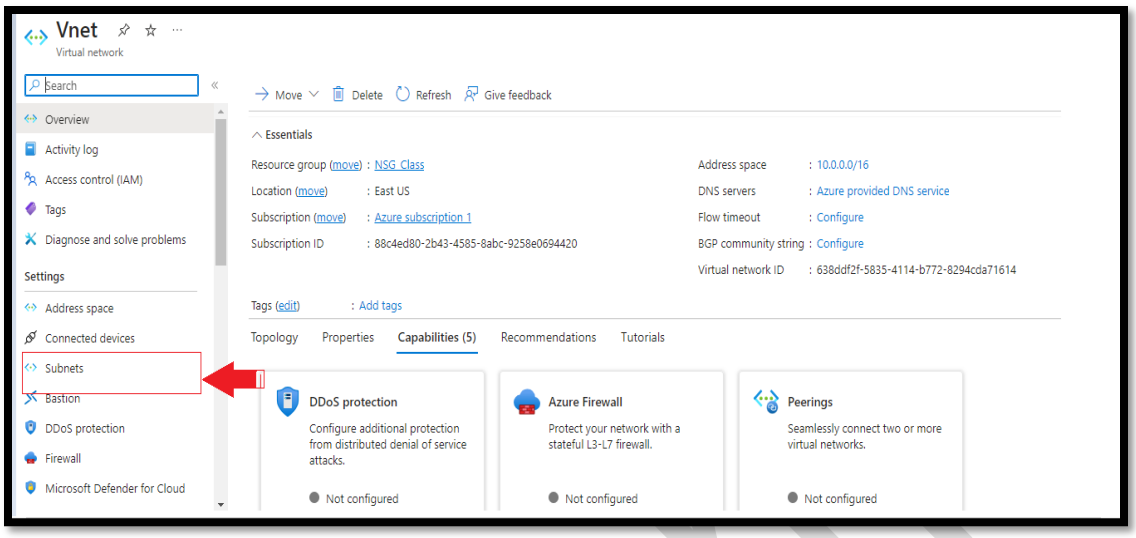


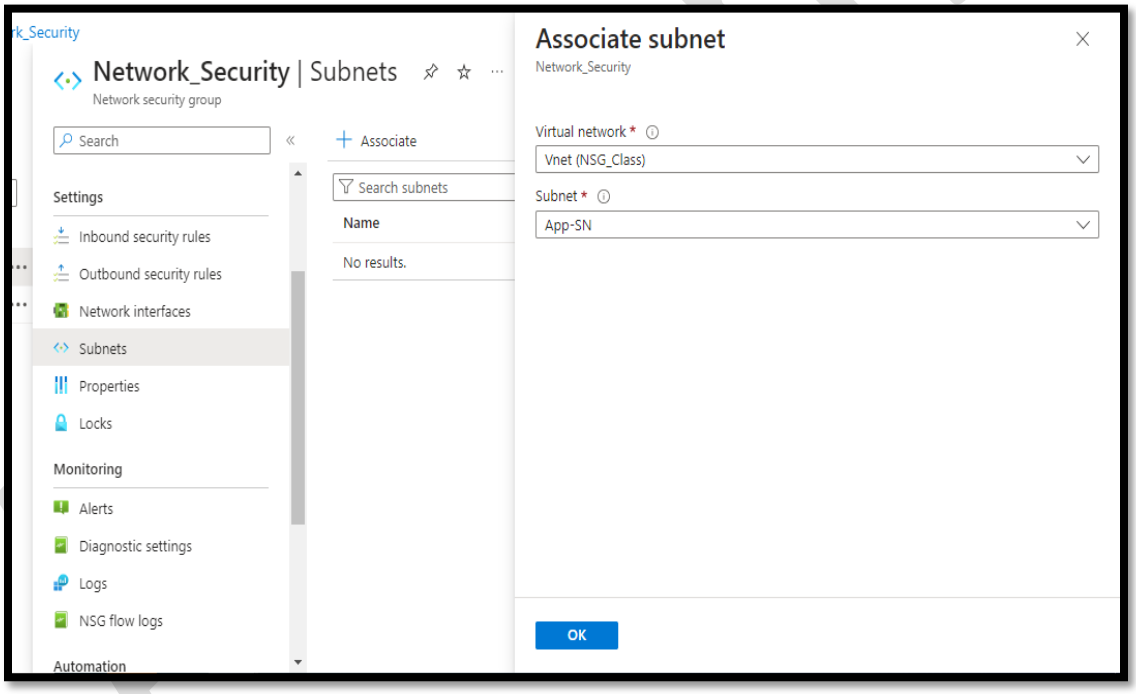




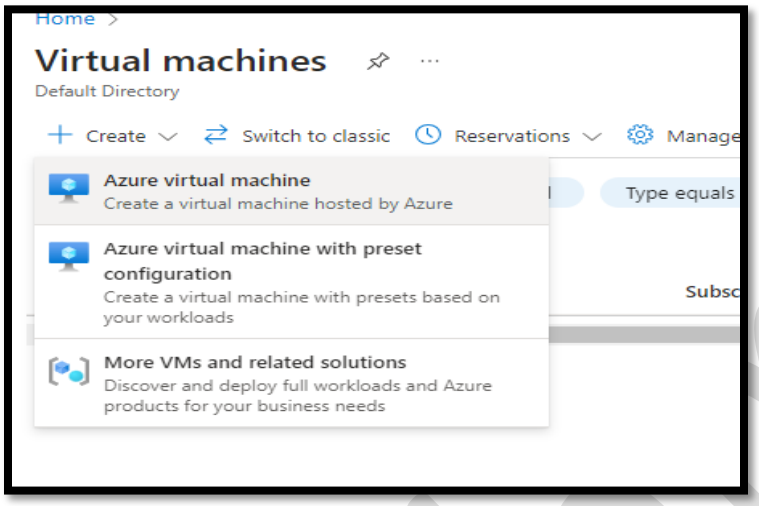
STEP3: *Create NSG(Network Security Group)*

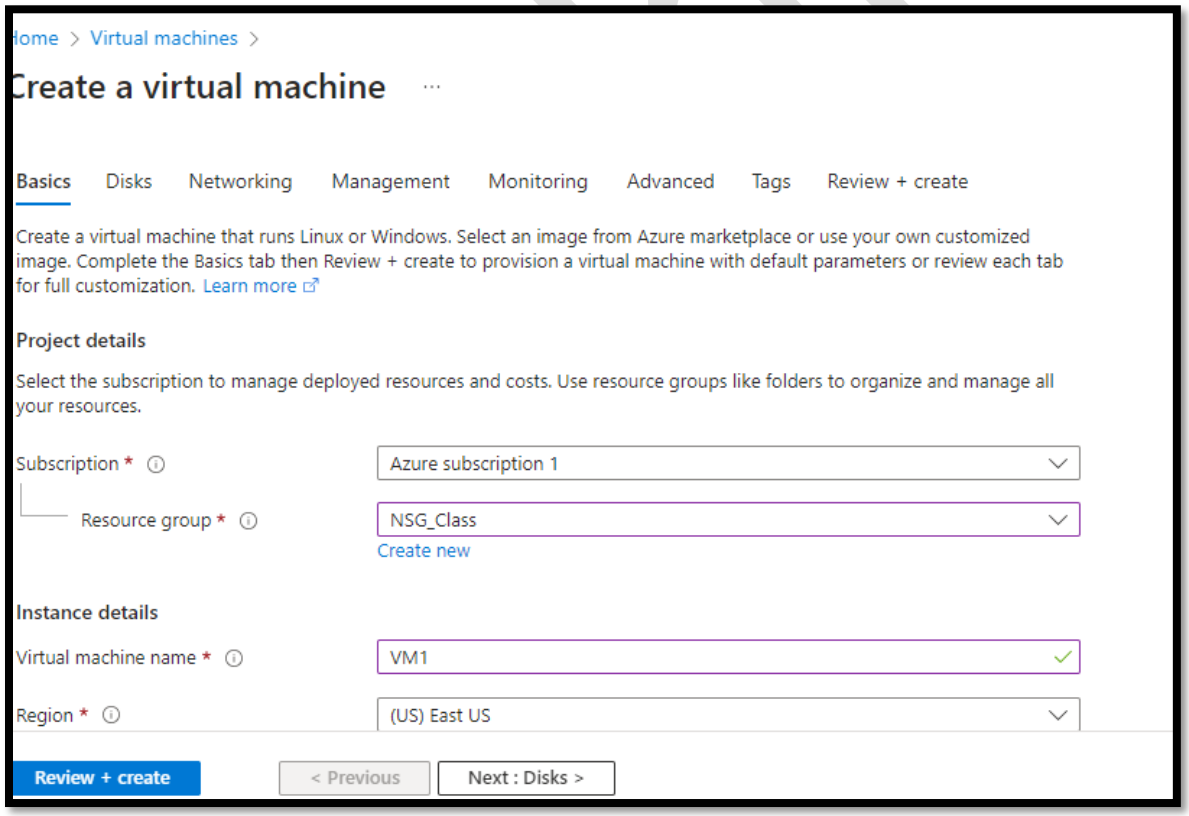


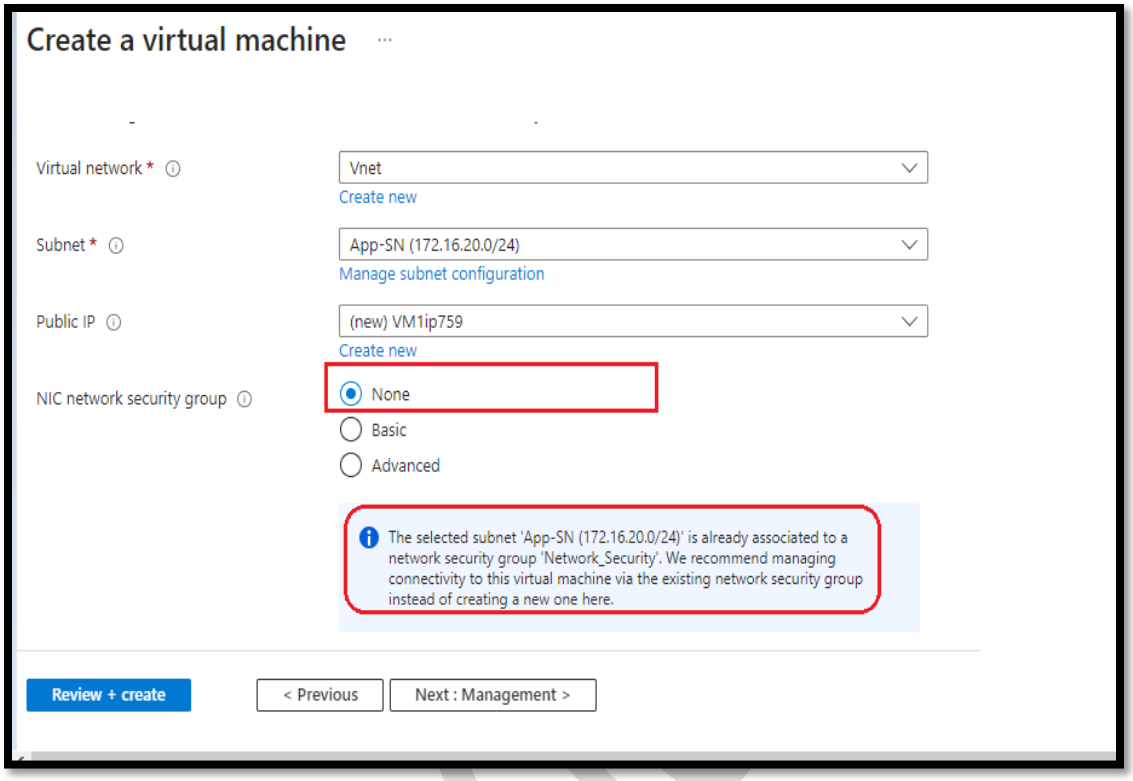

Vnet
Virtual network
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Address space
Connected devices
Subnets
Bastion
DDoS protection
Firewall
Microsoft Defender for Cloud
Move
Delete
Refresh
Give feedback
Essentials
Resource group (move) : NSG_Class
Location (move) : East US
Subscription (move) : Azure subscription 1
Subscription ID : 88c4ed80-2b43-4585-8abc-9258e0694420
Address space : 10.0.0.0/16
DNS servers : Azure provided DNS service
Flow timeout : Configure
BGP community string : Configure
Virtual network ID : 638ddf2f-5835-4114-b772-8294cda71614
Tags (edit) : Add tags
Topology
Properties
Capabilities (5)
Recommendations
Tutorials
DDoS protection
Configure additional protection from distributed denial of service attacks.
Not configured
Azure Firewall
Protect your network with a stateful L3-L7 firewall.
Not configured
Peerings
Seamlessly connect two or more virtual networks.
Not configured


Network_Security | Subnets
Network security group
Search
Settings
Inbound security rules
Outbound security rules
Network interfaces
Subnets
Properties
Locks
Monitoring
Alerts
Diagnostic settings
Logs
NSG flow logs
Automation
Associate
Search subnets
Name
No results.
Associate subnet
Network_Security
Virtual network *
Vnet (NSG_Class)
Subnet *
App-SN
OK

STEP4: *Create Virtual Machine*

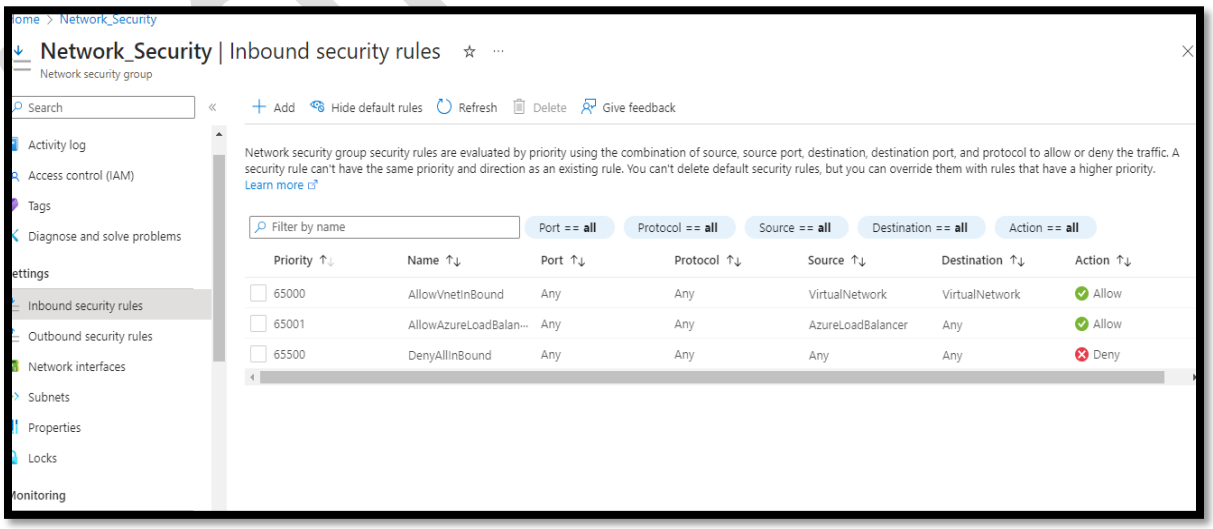




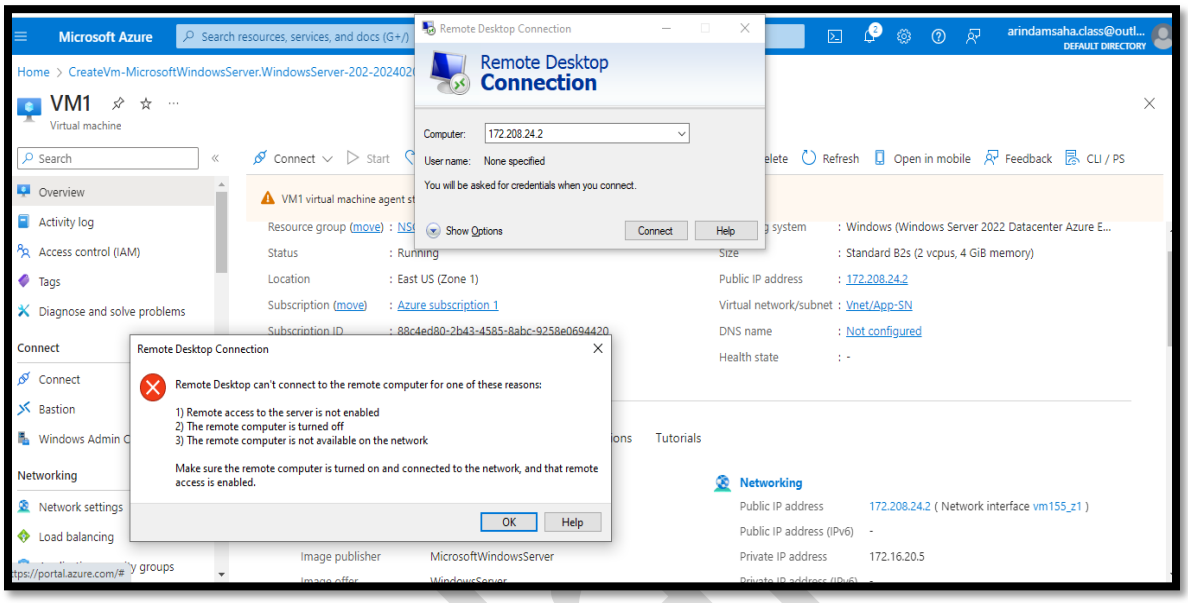


Note: By default, NIC network security group has been taken as None.

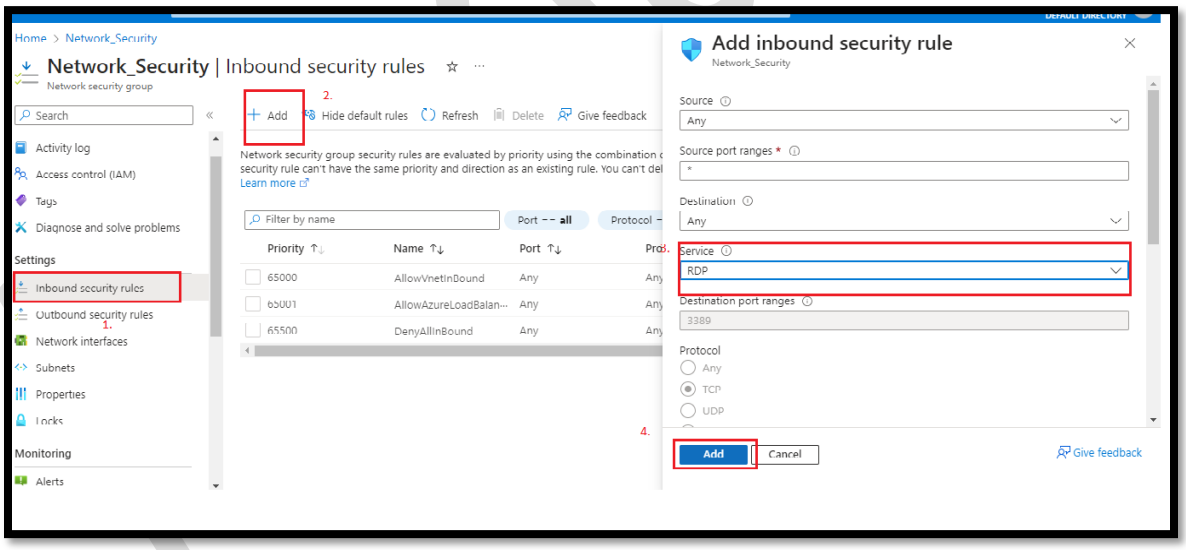
STEP5: *Import Security Rules*



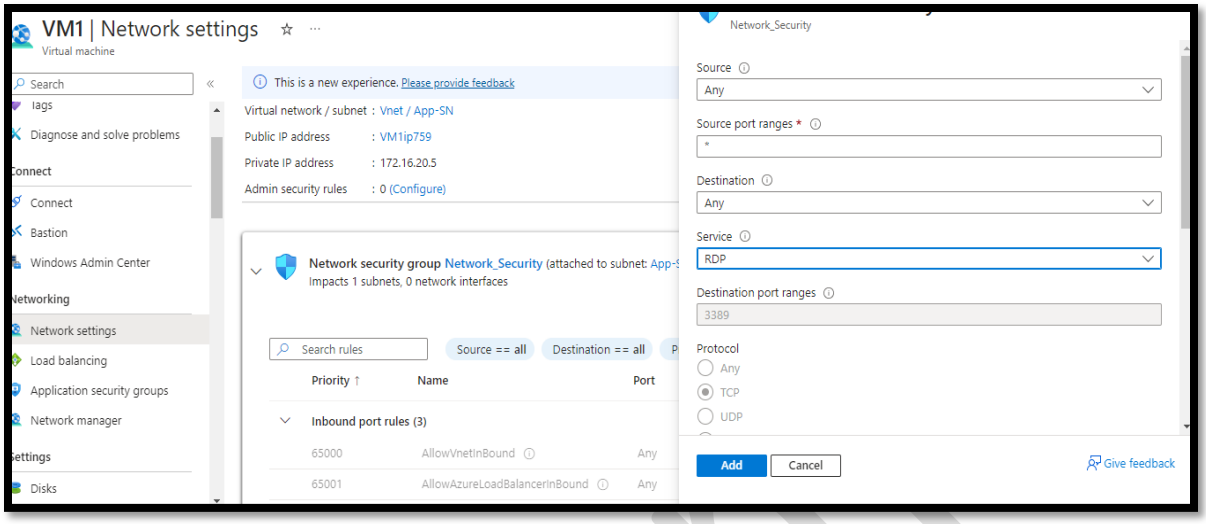
In the previous picture,We can see there are no rule for **RDP** in the **Inbound Security rule** . So The vm should **not be accessible** through **RDP**.

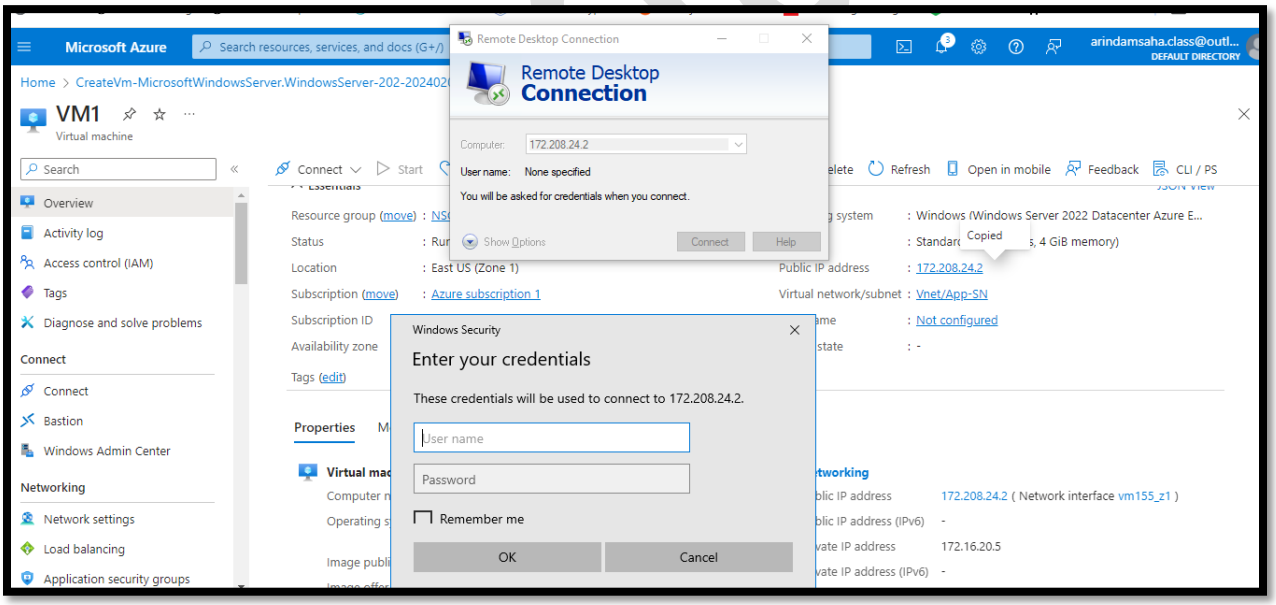


Now, we are trying to import rule for RDP in the **Inbound Security rule.**



And also import rule for RDP in the Inbound Security rule of Network settings of the VM**.**





Now ,we can see this vm is accessible through RDP.