

Azure Virtual Network (VNet) and Virtual Machine Setup Documentation

1. Creating a Virtual Network (VNet)

- Navigate to Azure Portal.
- Go to Virtual Networks.
- Click Create.
- Provide the following details:
 - Name: (Your VNet Name)
 - IP Address Range: Default or custom
 - Subnet Name: Rename from default if required
 - Tags: Optional metadata for identification
- Click Review & Create, then Create.

2. Setting up Network Security Group (NSG)

- Navigate to Azure Portal.
- Go to Network Security Groups.
- Click Create.
- Provide the required details:
 - Name: (Your NSG Name)
 - Tags: demo, nsgdemo (optional)
- Click Review & Create, then Create.
- Once created, go to Resources.
- Under Settings, go to Subnets.
- Click + Associate and assign:
 - Virtual Network: (Your VNet Name)
 - Subnet Name: (Your Subnet Name)
- Click OK.

3. Creating a Virtual Machine (VM)

- Navigate to Azure Portal.
- Go to Virtual Machines.
- Click Create.
- Provide the required details:
 - Name: (Your VM Name)
 - Network:
 - Virtual Network: (Your VNet Name)
 - Subnet: (Your Subnet Name)
 - Tags: demo, nsgdemo (optional)
- Click Review & Create, then Create.
- Once created, go to Resources.

4. Configuring Network Security Rules

- Navigate to Network Security Group (NSG) associated with the VM.
- Click + Add Rule.
- Provide the following details:
 - Source: Any
 - Source Port Ranges: * (Any)
 - Destination: Any
 - Service: HTTP
 - Destination Port Ranges: 80
 - Protocol: Any / TCP / UDP / ICMPv4
 - Action: Allow
 - Priority: 100
 - Name: AllowAnyHTTPInbound

- Description: Allow inbound HTTP traffic
- Click Add.
- Repeat the above steps to allow:
 - HTTPS (Port 443)
 - RDP (Port 3389).

5. Connecting to the Virtual Machine

- Navigate to Virtual Machines.
- Select your created VM.
- Copy the Public IP Address.
- Open Remote Desktop Connection (RDP).
- Paste the copied IP Address and connect.

Summary

- Create Virtual Network (VNet) with a custom subnet.
- Create Network Security Group (NSG) and associate it with the subnet.
- Create a Virtual Machine (VM) and attach it to the VNet and Subnet.
- Configure NSG Rules for HTTP, HTTPS, and RDP access.
- Use RDP to connect to the Virtual Machine.

That's it! Your Azure environment is now set up.