7. Create a new Azure Virtual Network with a defined IP address range and associated subnet.

- Name the virtual network (e.g., "MyVNet").
- Specify the IP address range (e.g., 10.0.0.0/16).
- Add a subnet named "MySubnet" with the address range (e.g., 10.0.0.0/24).

To create a new Azure Virtual Network with a defined IP address range and an associated subnet, you can use the Azure Portal or Azure CLI.

Using Azure Portal:

Sign in to the Azure Portal:

- o Open your web browser and navigate to Azure Portal.
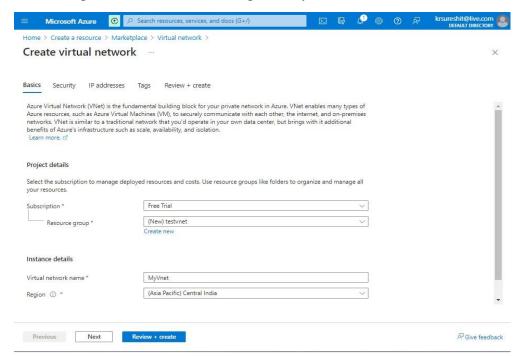- o Sign in with your Azure account.

Create a new Virtual Network:

- o In the left-hand menu, click on "Create a resource."
- o Search for "Virtual Network" and select it from the results.
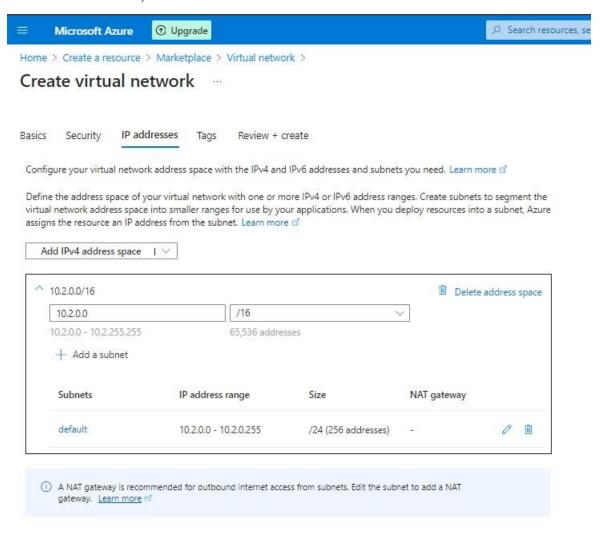- o Click the "Create" button.

Fill in Virtual Network details:

Provide the following details:

- o Subscription: Choose your subscription.
- o Resource Group: Either create a new one or select an existing one.
- o Name: Enter a unique name for your virtual network (e.g., "MyVNet").
- o Region: Choose the Azure region for your virtual network.

- Address Space: Enter the IP address range for the virtual network (e.g., "10.0.0.0/16").

Configure Subnet:

- Under the "Subnet" section, click on "+ Add a Subnet."
- Provide a name for your subnet (e.g., "MySubnet").
- Enter the address range for the subnet (e.g., "10.0.0.0/24").
- Click "Add."

Add a subnet   ✕

Select an address space and configure your subnet. You can customize a default subnet or select from subnet templates if you plan to add select services later. Learn more ⬡

Subnet purpose ⓘ | Default   ⌄ |

Name * ⓘ | default |

IPv4

Include an IPv4 address space   ☑

IPv4 address range ⓘ | 10.2.0.0/16   ⌄ |
                                     10.2.0.0 - 10.2.255.255

Starting address * ⓘ | 10.2.0.0/24 |

Size ⓘ | /24 (256 addresses)   ⌄ |

Subnet address range ⓘ   10.2.0.0 - 10.2.0.255

IPv6

Include an IPv6 address space   ☐ This virtual network has no IPv6 address ranges.

Private subnet PREVIEW

Private subnets enhance security by not providing default outbound access. To enable outbound connectivity for virtual machines to access the internet, it is necessary to explicitly grant outbound access. A NAT gateway is the recommended way to provide outbound connectivity for virtual machines in the subnet. Learn more ⬡

Enable private subnet   ☐

ⓘ This setting can't be changed after the subnet is created

Security

Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. Learn more ⬡

NAT gateway ⓘ | None   ⌄ |
                                     Create new

                                     | N... |

[**Add**]   [Cancel]

Review + Create:

- o Review your configuration and click on "Review + create."
- o Click "Create" to deploy the virtual network and subnet.