

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:

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

Create a new Virtual Network:

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

Fill in Virtual Network details:

Provide the following details:

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

The screenshot shows the 'Create virtual network' page in the Azure Portal. The page has a blue header with the Microsoft Azure logo and a search bar. Below the header, there's a breadcrumb trail: Home > Create a resource > Marketplace > Virtual network >. The main heading is 'Create virtual network'. Below this, there are tabs for 'Basics', 'Security', 'IP addresses', 'Tags', and 'Review + create'. The 'Basics' tab is selected. The page content includes a description of Azure Virtual Network (VNet) and a 'Project details' section. In the 'Project details' section, there are two dropdown menus: 'Subscription' (set to 'Free Trial') and 'Resource group' (set to '(New) testvnet'). Below these, there's a link 'Create new'. The 'Instance details' section has two input fields: 'Virtual network name' (set to 'MyVnet') and 'Region' (set to '(Asia Pacific) Central India'). At the bottom, there are three buttons: 'Previous', 'Next', and 'Review + create'. A 'Give feedback' link is also present in the bottom right corner.

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Create virtual network

Basics Security IP addresses Tags Review + create

Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks. VNet is similar to a traditional network that you'd operate in your own data center, but brings with it additional benefits of Azure's infrastructure such as scale, availability, and isolation. [Learn more.](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * Free Trial

Resource group * (New) testvnet [Create new](#)

Instance details

Virtual network name * MyVnet

Region (Asia Pacific) Central India

Previous Next Review + create

[Give feedback](#)

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

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Home > Create a resource > Marketplace > Virtual network >

Create virtual network

Basics Security **IP addresses** Tags Review + create

Configure your virtual network address space with the IPv4 and IPv6 addresses and subnets you need. [Learn more](#)

Define the address space of your virtual network with one or more IPv4 or IPv6 address ranges. Create subnets to segment the virtual network address space into smaller ranges for use by your applications. When you deploy resources into a subnet, Azure assigns the resource an IP address from the subnet. [Learn more](#)

Add IPv4 address space

10.2.0.0/16 [Delete address space](#)

10.2.0.0 /16

10.2.0.0 - 10.2.255.255 65,536 addresses

+ Add a subnet

Subnets	IP address range	Size	NAT gateway
default	10.2.0.0 - 10.2.0.255	/24 (256 addresses)	-

A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway. [Learn more](#)

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 ⓘ

Name * ⓘ

IPv4

Include an IPv4 address space ☒

IPv4 address range ⓘ
10.2.0.0 - 10.2.255.255

Starting address * ⓘ

Size ⓘ

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 ⓘ
[Create new](#)

Add

Cancel

Review + Create:

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

