

# Azure by Abhijeet

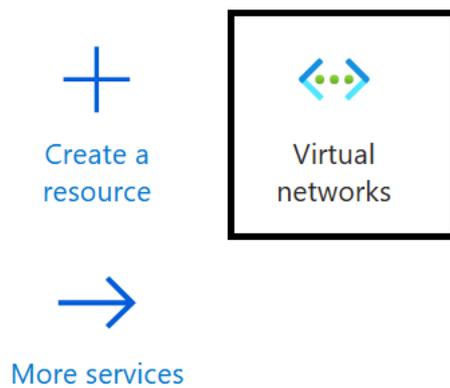
**Lab1 : Create a Virtual network with two subnet (one public and one private subnet ) with total host as 256 and each subnet having 128 host**

**Step 1: Login to the azure portal**

**Step 2: Click on Vnet**

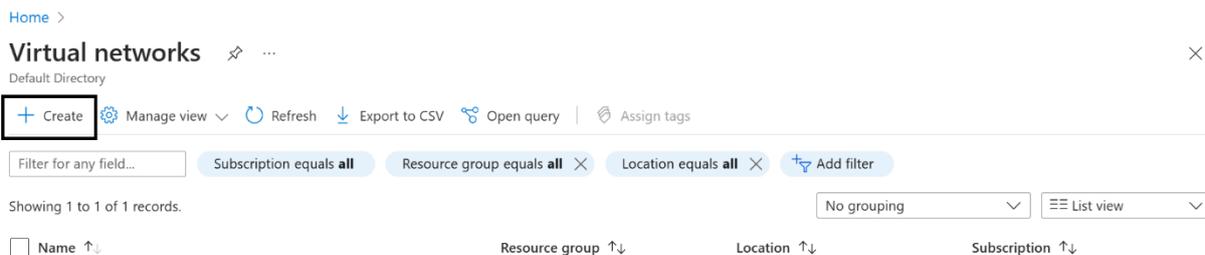


## Azure services



## Resources

**Step 3: Click on create button**



**Step 4: Enter resource group where you want the Vnet to be placed**

**Step 5: Enter Vnet name**

**Step 6: Enter Region**

[Home](#) > [Virtual networks](#) >

## Create virtual network ...

[Basics](#) [Security](#) [IP addresses](#) [Tags](#) [Review + create](#)

Subscription \*

Azure subscription 1

Resource group \*

my-rg

[Create new](#)

### Instance details

Virtual network name \*

prod-vnet

Region \* ⓘ

(Canada) Canada Central

[Deploy to an Azure Extended Zone](#)

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**Step 6: Select IP addresses Tab**

## 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 a subnet

10.0.0.0/16 [Delete address space](#)

This address prefix overlaps with virtual network 'my-vnet'. If you intend to peer these virtual networks, change the address space. [Learn more](#)

10.0.0.0 /16

### Step 7: Choose /24 from drop-down

### Step 8: Delete existing subnet

## Create virtual network ...

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

10.0.0.0/24 [Delete address space](#)

This address prefix overlaps with virtual network 'my-vnet'. If you intend to peer these virtual networks, change the address space. [Learn more](#)

10.0.0.0 /24  
10.0.0.0 - 10.0.0.255 256 addresses

Subnets	IP address range	Size	NAT gateway
<a href="#">default</a>	10.0.0.0 - 10.0.0.255	/24 (256 addresses)	- <a href="#">edit</a> <a href="#">delete</a>

### Step 9: Click on add a subnet

Home > Virtual networks >

## Create virtual network

Basics Security **IP addresses** Tags

Configure your virtual network address space with

Define the address space of your virtual network virtual network address space into smaller ranges assigns the resource an IP address from the subn

+ Add a subnet

10.0.0.0/24  
This address prefix overlaps with virtual net address space. [Learn more](#)

10.0.0.0

### 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   
10.0.0.0 - 10.0.0.255

Starting address \*

Size

Subnet address range

#### IPv6

Subnet purpose

Name \*

Include an IPv6 address space

IPv6 address range

Starting address \*

Size

Subnet address range

Previous Next **Review +** **Add** Cancel [Give feedback](#)

**Step 10: Enter name as pub-sub ,size as /25 and click on add button in bottom**

Home > Virtual networks >

## Create virtual network

Basics Security **IP addresses** Tags

Configure your virtual network address space with

Define the address space of your virtual network virtual network address space into smaller ranges assigns the resource an IP address from the subn

+ Add a subnet

10.0.0.0/24  
This address prefix overlaps with virtual net address space. [Learn more](#)

10.0.0.0

### 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   
10.0.0.0 - 10.0.0.255

Starting address \*

Size

Subnet address range

#### IPv6

Subnet purpose

Name \*

Include an IPv6 address space

IPv6 address range

Starting address \*

Size

Subnet address range

Previous Next **Review +** **Add** Cancel [Give feedback](#)

**Step 11: Again click on add a subnet**

**Step 12: Enter name as pvt-sub ,size as /25**

Home > Virtual networks > Create virtual network

Basics Security **IP addresses** Tags

Define the address space of your virtual network virtual network address space into smaller ranges assigns the resource an IP address from the subn

+ Add a subnet

10.0.0.0/24  
This address prefix overlaps with virtual net address space. [Learn more](#)

10.0.0.0  
10.0.0.0 - 10.0.0.255

### 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   
10.0.0.0 - 10.0.0.255

Starting address \*

Size

Subnet address range

**IPv6**

## Step 13: Select option as Enable private subnet

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Home > Virtual networks > Create virtual network

Basics Security **IP addresses** Tags

Define the address space of your virtual network virtual network address space into smaller ranges assigns the resource an IP address from the subn

+ Add a subnet

10.0.0.0/24  
This address prefix overlaps with virtual net address space. [Learn more](#)

10.0.0.0  
10.0.0.0 - 10.0.0.255

### Add a subnet

**IPv6**

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

**Private subnet**

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 (no default outbound access)

**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](#)

## Step 14: Click on review and create

# Create virtual network ...



Basics Security IP addresses Tags Review + create

10.0.0.0 /24  
10.0.0.0 - 10.0.0.255 256 addresses

Subnets	IP address range	Size	NAT gateway
pub-sub	10.0.0.0 - 10.0.0.127	/25 (128 addresses)	-
pvt-sub	10.0.0.128 - 10.0.0.255	/25 (128 addresses)	-

Add IPv4 address space | v

Previous Next **Review + create**