# **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

#### Resources

#### Step 3: Click on create button

Home >			
Virtual networks ∞ … Default Directory			×
+ Create 🕲 Manage view $\lor$ 🕐 Refresh $\downarrow$ Export to CSV $\degree$	😚 Open query 🛛 🖗 Assign tags		
Filter for any field Subscription equals all Resource g	group equals all $ imes$ Location equals	all $\times$ + Add filter	
Showing 1 to 1 of 1 records.		No grouping	✓ E≡ List view ✓
Name ↑↓	Resource group $\uparrow \downarrow$	Location $\uparrow_{\downarrow}$	Subscription $\uparrow_{\downarrow}$

## 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 * Resource group *	Azure subscription 1     V       my-rg     V       Create new
Instance details	
Virtual network name *	prod-vnet
Region * 🗊	(Canada) Canada Central 🗸
	Deploy to an Azure Extended Zone

Step 6: Select IP addresses Tab

Home >	Virtual netw	vorks >		
Creat	e virtu	al network	<b>C</b>	
Basics	Security	IP addresses	Tags	Review + create
Configu	re your virtua	l network address s	pace with	n the IPv4 and IPv6 addresses and subnets you need. Learn more $\ensuremath{\mathbb{C}}^{\texttt{Z}}$
Define tl virtual n assigns t	he address sp etwork addre the resource a	pace of your virtual ss space into small an IP address from	network v er ranges the subne	with one or more IPv4 or IPv6 address ranges. Create subnets to segment the for use by your applications. When you deploy resources into a subnet, Azure et. Learn more 🖒
+ Ac	ld a subnet			
^ 10	.0.0.0/16			🔟 Delete address space

^	10.0.0/16		🗓 Delete address space
	This address prefix overlaps with virtual address space. Learn more c?)	network 'my-vnet'. If you intend to peer t	these virtual networks, change the
	10.000	/16	

# Step 7: Choose /24 from drop-down

## **Step 8: Delete existing subnet**

Home > Virtual networks >

Create virtual network

asics	Security	IP addresses	Tags	Review + cr	reate		
<u>^</u> 10	0.0.0.0/24					🗎 De	lete address space
Tl	his address pr ddress space.	efix overlaps wit Learn more ☑)	h virtual ne	twork 'my-vnet'	. If you intend to p	eer these virtual networks	, change the
	10.0.0.0			/24		$\sim$	
1(	0.0.0.0 - 10.0.0	0.255		256 addresses			
	Subnets		IP address	range	Size	NAT gateway	
	default		10.0.0.0 - 1	0.0.0.255	/24 (256 addı	resses) -	

Step 9: Click on add a subnet

Home > Virtual networks >	Add a subnet		×
Create virtual network			
	Select an address space and configure you select services later. Learn more C <sup>an</sup>	ur subnet. You can customize a default subnet or select from subnet templates if you plan to	add
Basics Security IP addresses Tags	Subnet purpose 🛈	Default	$\sim$
Configure your virtual network address space wit	Name * 🛈	default	
Define the address space of your virtual network virtual network address space into smaller ranges are into smaller ranges.	IPv4		
assigns the resource an iP address from the subn	Include an IPv4 address space		
+ Add a subnet	IPv4 address range ①	10.0.0/24 10.0.0 - 10.0.255	$\sim$
^ 10.0.0.0/24	Starting address * (i)	10.0.0	
This address prefix overlaps with virtual net	Size (i)	/24 (256 addresses)	$\sim$
address space. Learn more ♂)	Subnet address range 🛈	10.0.0 - 10.0.255	
	IPv6		
Previous Next Review +	Add Cancel	R Give 1	feedbac

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

Home > Virtual networks >	Add a subnet		$\times$
Create virtual network			
	Select an address space and configure yo select services later. Learn more 더	ur subnet. You can customize a default subnet or select from subnet templates if you plan to ad	d
Basics Security IP addresses Tags	Subnet purpose 🛈	Default	$\sim$
Configure your virtual network address space wit	Name * 🕕	pub-sub	
Define the address space of your virtual network virtual network address space into smaller ranges	IPv4		
assigns the resource an IP address from the subn	Include an IPv4 address space		
+ Add a subnet	IPv4 address range ①	10.0.0./24 10.0.0 - 10.0.255	$\checkmark$
A	Starting address * ①	10.0.0	
This address prefix overlaps with virtual net	Size 🛈	/25 (128 addresses)	
address space. Learn more 🖒	Subnet address range 🛈	10.0.0 - 10.0.0.127	_
	IPv6		
Previous Next Review +	Add Cancel	${\cal R}$ Give fee	dback

# Step 11: Again click on add a subnet

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

Home > Virtual networks >

Create virtual network

#### 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 🕫

	Select Selfices later. Learning e		
Basics Security IP addresses lags	Subnet purpose 🛈	Default	$\sim$
Define the address space of your virtual network	Name * 🕕	pvt-sub	
assigns the resource an IP address from the subn	IPv4	pvt-sub-1	
	Include an IPv4 address space	✓	
+ Add a subnet	IPv4 address range 🛈	10.0.0/24	$\sim$
		10.0.0.0 - 10.0.0.255	
^ 10.0.0/24	Starting address * (i)	10.0.0.128	
This address prefix overlaps with virtual net address space. Learn more (27)	Size ①	/25 (128 addresses)	~
10.0.0	Subnet address range (i)	10.0.128 - 10.0.0.255	
10.0.0.0 - 10.0.0.255			
	IPv6		

# Step 13: Select option as Enable private subnet

■ Microsoft Azure ① Upgradi	arch resources, services, and docs (G+/) 🚺 🚺 Copilot 🛛 💭 🔅 🕐 🔊 abhijeet.kumar1563@g 🍳
Home > Virtual networks > Create virtual network …	Add a subnet ×
Basics Security IP addresses Tags	IPv6 Include an IPv6 address space This virtual network has no IPv6 address ranges.
Define the address space of your virtual network virtual network address space into smaller ranges assigns the resource an IP address from the subn	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 G <sup>n</sup>
+ Add a subnet	Enable private subnet (no default outbound access)
10.0.0/24	Security
This address prefix overlaps with virtual net address space. Learn more 더)	Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. Learn more 🖒
10.0.0	NAT gateway 🕥
10.0.0.0 - 10.0.0.255	

# Step 14: Click on review and create

#### Home > Virtual networks >

#### 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)	-	0
pvt-sub	10.0.0.128 - 10.0.0.255	/25 (128 addresses)	-	Ø

Add IPv4 address space  $\parallel \lor$ 

Previous Next Review + create

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