

# Azure Cloud Task

by Sriharshini J

## The following procedure creates a virtual network with 2 Subnets with 16 IPS

1. Sign in to the [Azure portal](#).
2. In the portal, search for and select **Virtual networks**.
3. On the **Virtual Networks** page, select **Create**.
4. On the **Basics** tab of the **Create virtual network** screen, enter, or select the following information:
  - **Subscription:** Keep the default or select a different subscription.
  - **Resource group:** Select **Create New**, and then name the resource group *Demo-RG*.
  - **Virtual network name:** Enter TestVNet.
  - **Region:** Keep the default or select a different region for the network and all its resources.

### Screenshot: 1

The screenshot shows the 'Create virtual network' page in the Azure portal, specifically the 'Basics' tab. The page is titled 'Create virtual network' and has a breadcrumb trail 'Home > Virtual network >'. The 'Basics' tab is selected, with other tabs being 'Security', 'IP addresses', 'Tags', and 'Review + create'. The form contains the following fields:

- Subscription \***: A dropdown menu showing 'Free Trial'.
- Resource group \***: A dropdown menu showing 'Demo-RG' with a 'Create new' link below it.
- Instance details**:
  - Virtual network name**: A text input field containing 'TestVnet'.
  - Region**: A dropdown menu showing '(US) East US' with a 'Deploy to an edge zone' link below it.

At the bottom of the page, there are three buttons: 'Previous', 'Next', and 'Review + create'. A 'Give feedback' link is also present in the bottom right corner.

Select **Next: IP Addresses** at the bottom of the page.

On the **IP Addresses** tab, under the **IPv4 address space**, select the garbage can icon to remove any address space that already appears, and then enter 192.168.0.0/16

Select **Add Subnet**.

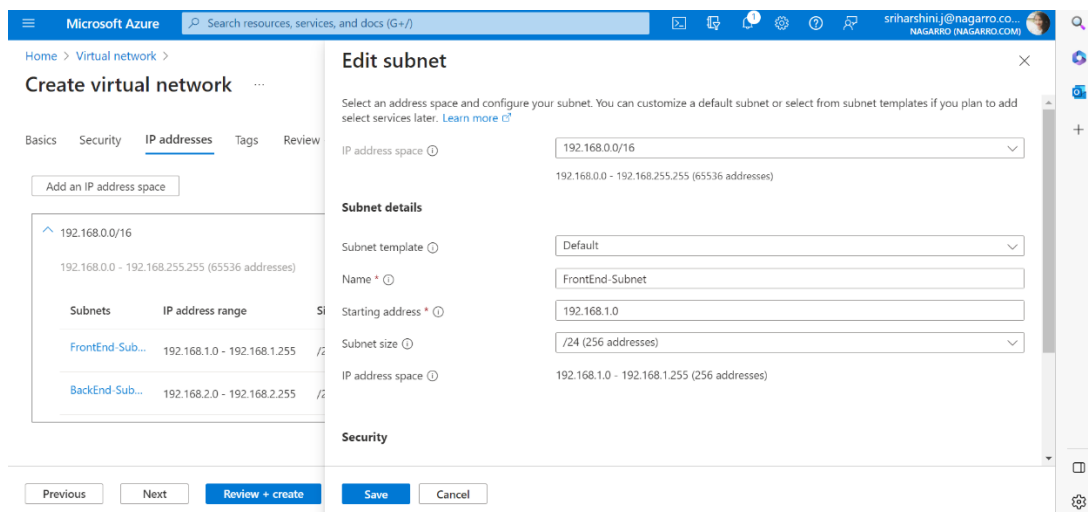
On the **Add subnet** screen, enter the following information, and then select **Add**:

**Subnet name:** FrontEnd-Subnet and BackEnd-Subnet

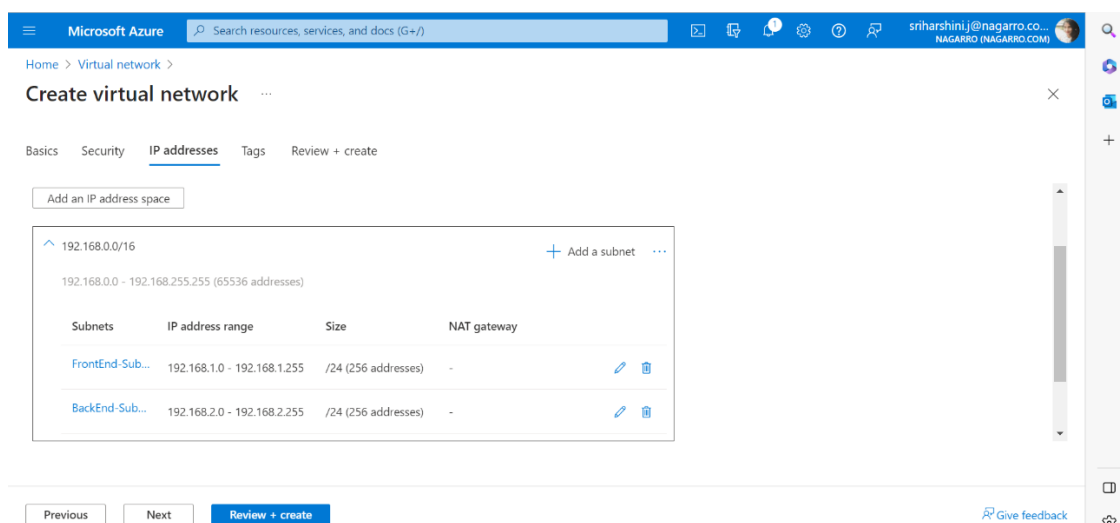
**Subnet address range:** 192.168.1.0/24.

**Subnet address range:** 192.168.2.0/24.

## Screenshot: 2



## Screenshot: 3



Select **Review + Create** at the bottom of the screen, and when validation passes, select **Create**.

Next, click on the Tags section and select name and value as Development and Testing and Resource as all resources selected

Then click **Review + Create** then wait for the building of the review

Next, click on create, deployment process will begin soon

After successful deployment, one can see results in the home page under resource bar and virtual machine section

#### Screenshot: 4

The screenshot shows the 'Create virtual network' wizard in the Microsoft Azure portal. The 'Tags' tab is selected, showing a table for adding tags. The table has columns for Name, Value, and Resource. Two tags are added: 'Development' with value 'Testing' and resource 'All resources selected', and an empty row with 'All resources selected' as the resource.

Name	Value	Resource
Development	Testing	All resources selected
		All resources selected

At the bottom, there are buttons for 'Previous', 'Next', and 'Review + create'.

#### Screenshot: 5

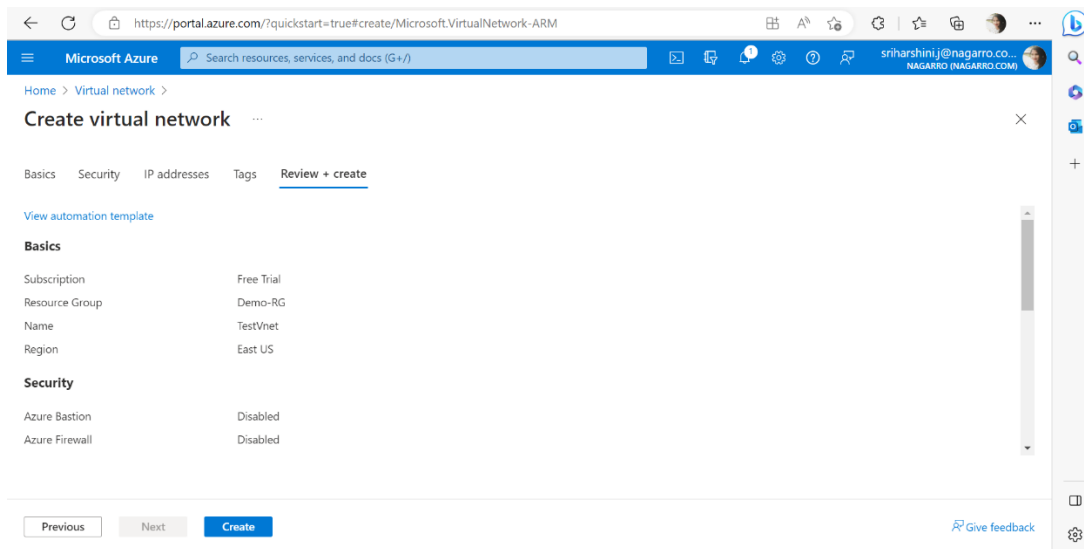
The screenshot shows the 'Create virtual network' wizard in the Microsoft Azure portal, now on the 'Review + create' tab. It displays the configuration details for the virtual network, including subscription, resource group, name, region, and security settings.

Basics	
Subscription	Free Trial
Resource Group	Demo-RG
Name	TestVnet
Region	East US

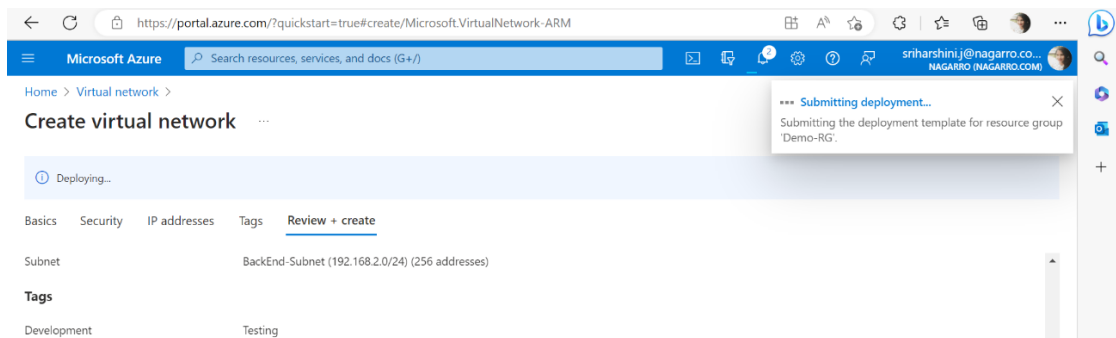
Security	
Azure Bastion	Disabled
Azure Firewall	Disabled

At the bottom, there are buttons for 'Previous', 'Next', and 'Create'.

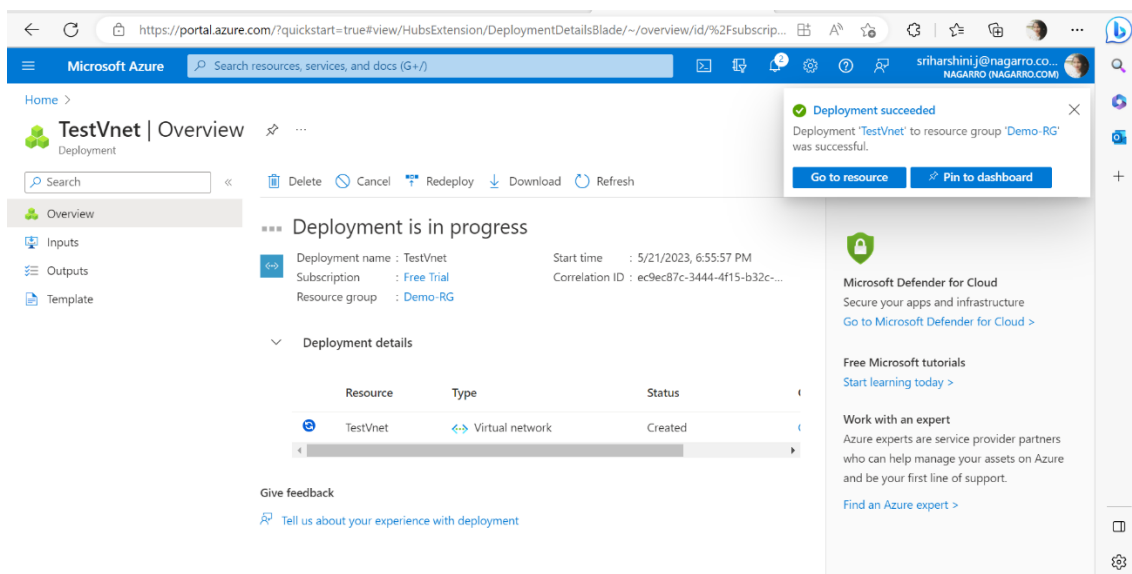
## Screenshot: 6



## Screenshot: 7



## Screenshot: 8



## Screenshot: 9

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and the user's profile. The main content area displays the 'TestVnet' Overview page. On the left, there is a sidebar with navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Address space, Connected devices, Subnets, Bastion, DDoS protection, Firewall, and Microsoft Defender for Cloud. The main content area shows the 'Essentials' section with details about the virtual network, including its resource group, location, subscription, and address space. Below this, there are tabs for Topology, Properties, Capabilities (5), Recommendations, and Tutorials. The 'Capabilities' tab is active, showing three sections: DDoS protection, Azure Firewall, and Peerings, each with a 'Not configured' status.

Microsoft Azure | Search resources, services, and docs (G+)

Home > TestVnet | Overview >

TestVnet  
Virtual network

Search

Move Delete Refresh Give feedback

JSON View

Essentials

Resource group (move): Demo-RG  
Location (move): East US  
Subscription (move): Free Trial  
Subscription ID: bd5e5dae-4d66-4b9f-ae49-91190cfe551

Address space: 192.168.0.0/16  
DNS servers: Azure provided DNS service  
Flow timeout: Configure  
BGP community string: Configure  
Virtual network ID: 96850ae9-f9b4-4fd3-956a-2771d39e0807

Tags (edit): Development: Testing

Topology Properties Capabilities (5) Recommendations Tutorials

DDoS protection  
Configure additional protection from distributed denial of service attacks.  
● Not configured

Azure Firewall  
Protect your network with a stateful L3-L7 firewall.  
● Not configured

Peerings  
Seamlessly connect two or more virtual networks.  
● Not configured

## Screenshot: 10

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and the user's profile. The main content area displays the 'TestVnet' Subnets page. On the left, there is a sidebar with navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Address space, Connected devices, Subnets, Bastion, DDoS protection, Firewall, Microsoft Defender for Cloud, Network manager, and DNS servers. The main content area shows a table of subnets with columns for Name, IPv4, and IPv6. The 'FrontEnd-Subnet' is selected, and its configuration modal is open. The modal shows the subnet name, address range, and various settings like NAT gateway, network security group, and route table.

Microsoft Azure | Search resources, services, and docs (G+)

Home > TestVnet | Overview > TestVnet

TestVnet | Subnets  
Virtual network

Search

+ Subnet + Gateway subnet Refresh M

Search subnets

Name	IPv4	IPv6
FrontEnd-Subnet	192.168.1.0/24	-
BackEnd-Subnet	192.168.2.0/24	-

FrontEnd-Subnet

Name: FrontEnd-Subnet

Subnet address range: 192.168.1.0/24  
192.168.1.0 - 192.168.1.255 (251 + 5 Azure reserved addresses)

☐ Add IPv6 address space

NAT gateway: None

Network security group: None

Route table: None

SERVICE ENDPOINTS

Save Cancel

## Screenshot: 11

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and the user's profile. The main content area displays the 'TestVnet' Subnets page. On the left, there is a sidebar with navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Address space, Connected devices, Subnets, Bastion, DDoS protection, Firewall, Microsoft Defender for Cloud, Network manager, and DNS servers. The main content area shows a table of subnets with columns for Name, IPv4, and IPv6. The 'BackEnd-Subnet' is selected, and its configuration modal is open. The modal shows the subnet name, address range, and various settings like NAT gateway, network security group, and route table.

Microsoft Azure | Search resources, services, and docs (G+)

Home > TestVnet | Overview > TestVnet

TestVnet | Subnets  
Virtual network

Search

+ Subnet + Gateway subnet Refresh M

Search subnets

Name	IPv4	IPv6
FrontEnd-Subnet	192.168.1.0/24	-
BackEnd-Subnet	192.168.2.0/24	-

BackEnd-Subnet

Name: BackEnd-Subnet

Subnet address range: 192.168.2.0/24  
192.168.2.0 - 192.168.2.255 (251 + 5 Azure reserved addresses)

☐ Add IPv6 address space

NAT gateway: None

Network security group: None

Route table: None

SERVICE ENDPOINTS

Save Cancel

## Screenshot: 12

### Result

