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**Placement Empowerment Program**

***Cloud Computing and DevOps Centre***

**TASK-19** **Set Up a Private Network in the Cloud**:

Create a Virtual Private Cloud (VPC) with subnets for your instances. Configure routing for internal communication between subnets.

Name: VASANTH S Department:CSE

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**Objective**

The objective of this task is to create a **Virtual Private Cloud (VPC)** in Azure, known as a **Virtual Network (VNet)**, and set up **subnets** within it. The goal is to enable secure and efficient **internal communication** between resources in different subnets by configuring routing rules. This setup helps in **network segmentation**, **traffic control**, and **better resource organization** within the cloud infrastructure.

**STEP BY STEP PROCESS:**

**STEP 1:**

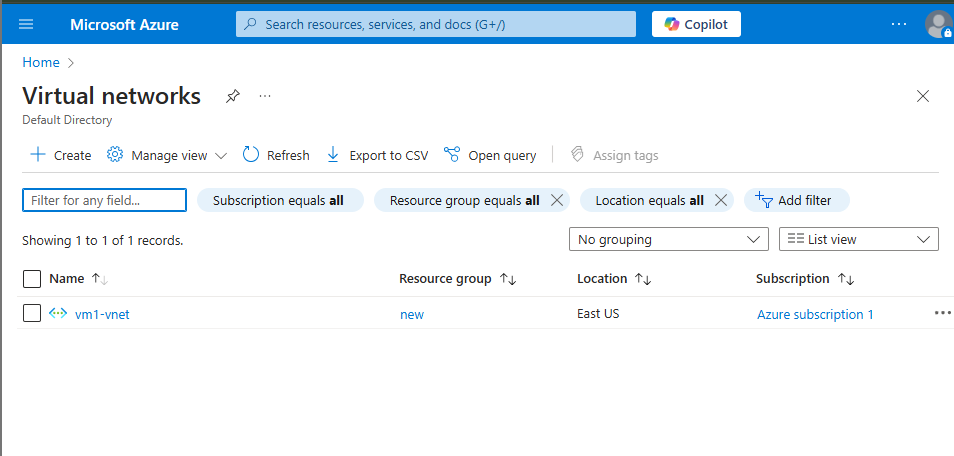
LOGIN INTO YOUR **AZURE PORTAL.** Search for virtual network.

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**STEP 2:**

GO TO VIRTUAL NETWORKS “+ CREATE”.

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**STEP 3:**

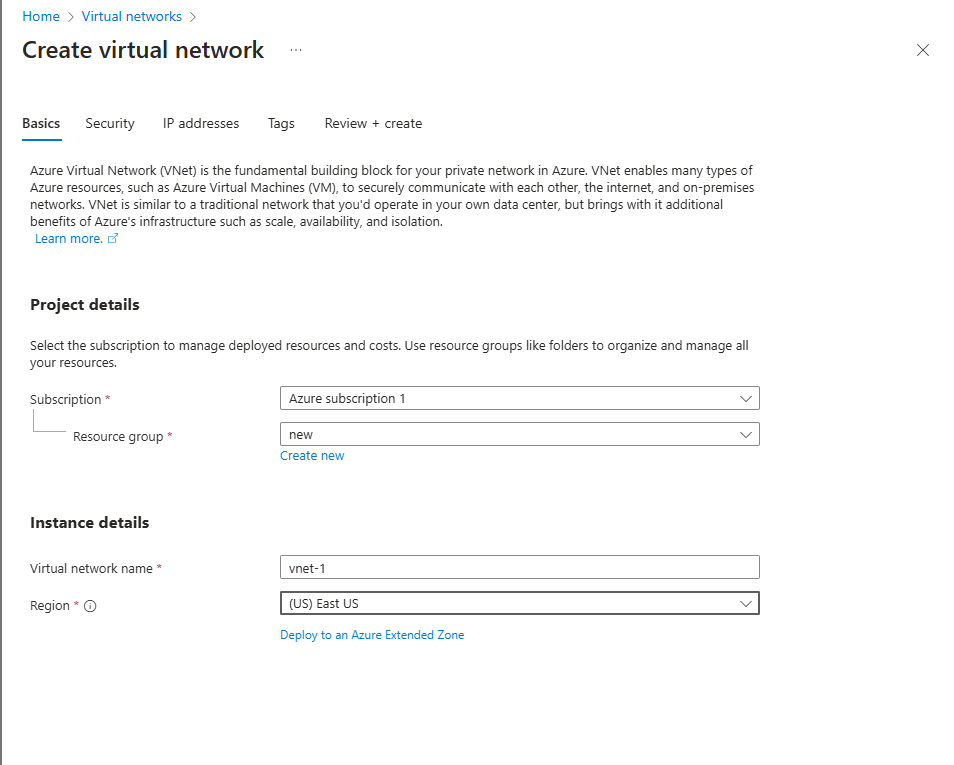
GIVE THE FOLLOWING DETAILS:

Enter Resource group

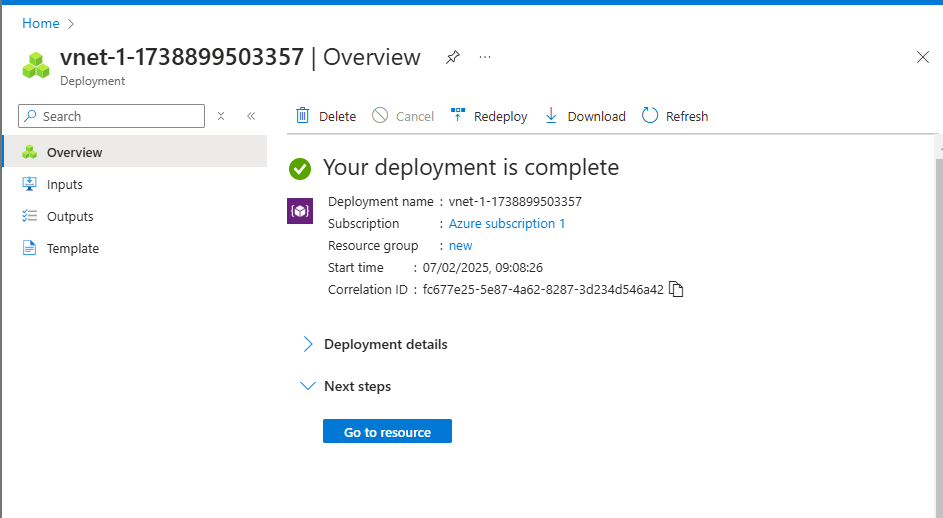
Enter virtual network name

Enter Region.

And IP settings.

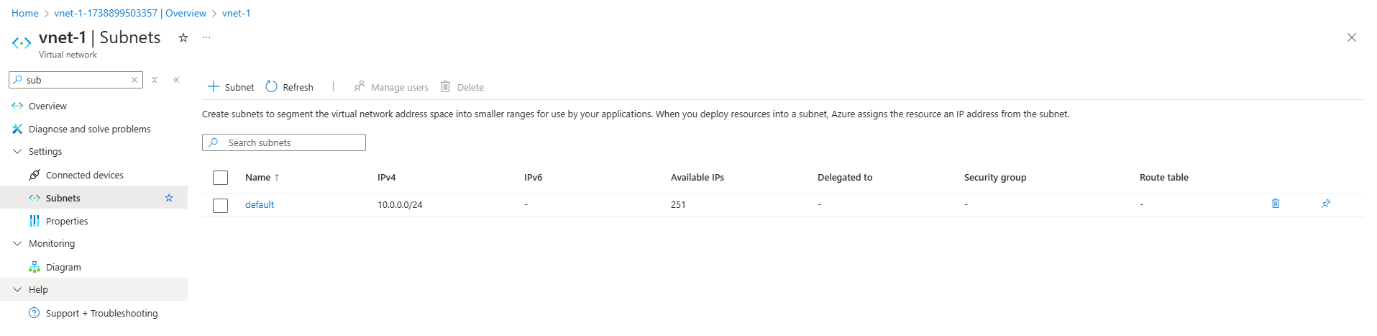
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Once entered the details click on create for deployment.



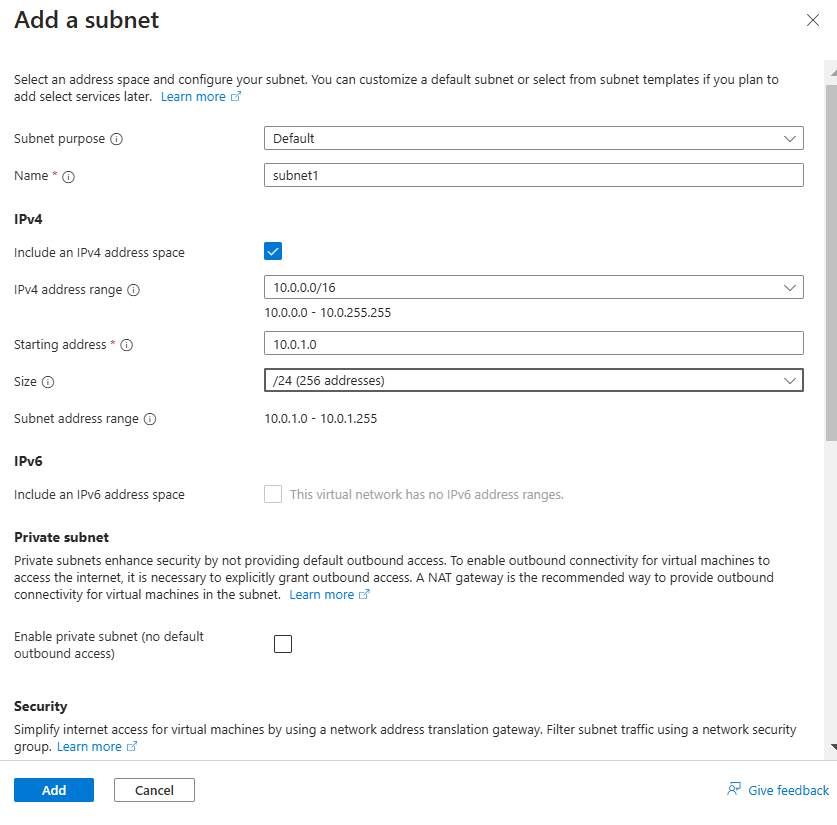
**Step 4:**

Search for Subnet and “create”

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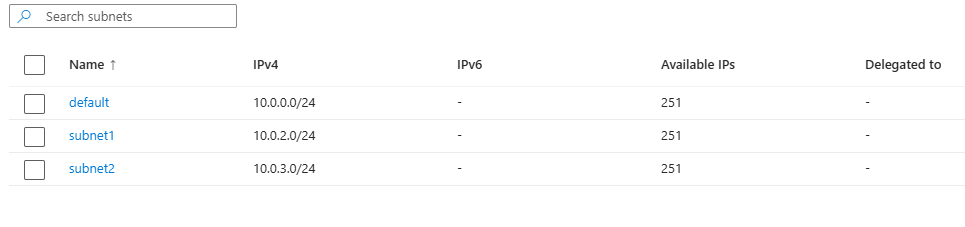
**Step 5:**

Add a subnet details and provide a ip address and click on “Add”.

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**STEP 6:**

Create two subnets.

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**Step 7:**

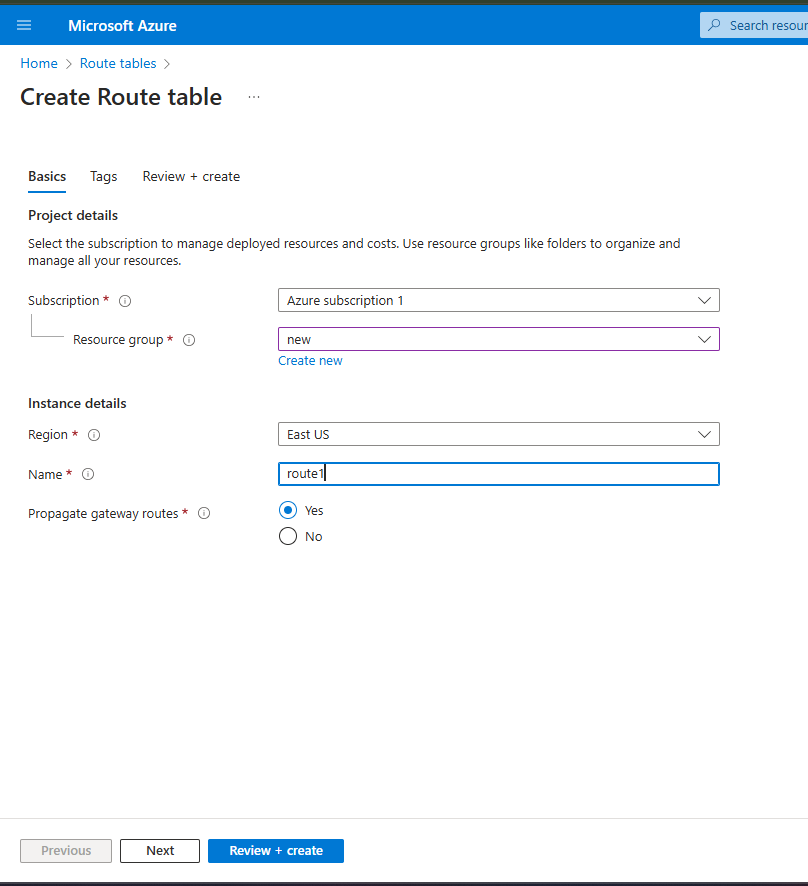
Search for “Route table” and click on “create”.

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**Step 8:**

Enter route table details

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**Step 9:**

Add route with desired type**.** Do same for subnet2**.A screenshot of a computer

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**Step 10:**

Now associate with virtualnetwork for subnet1 and subnet2.

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**Step 11:**

Connect the virtual network using route table.

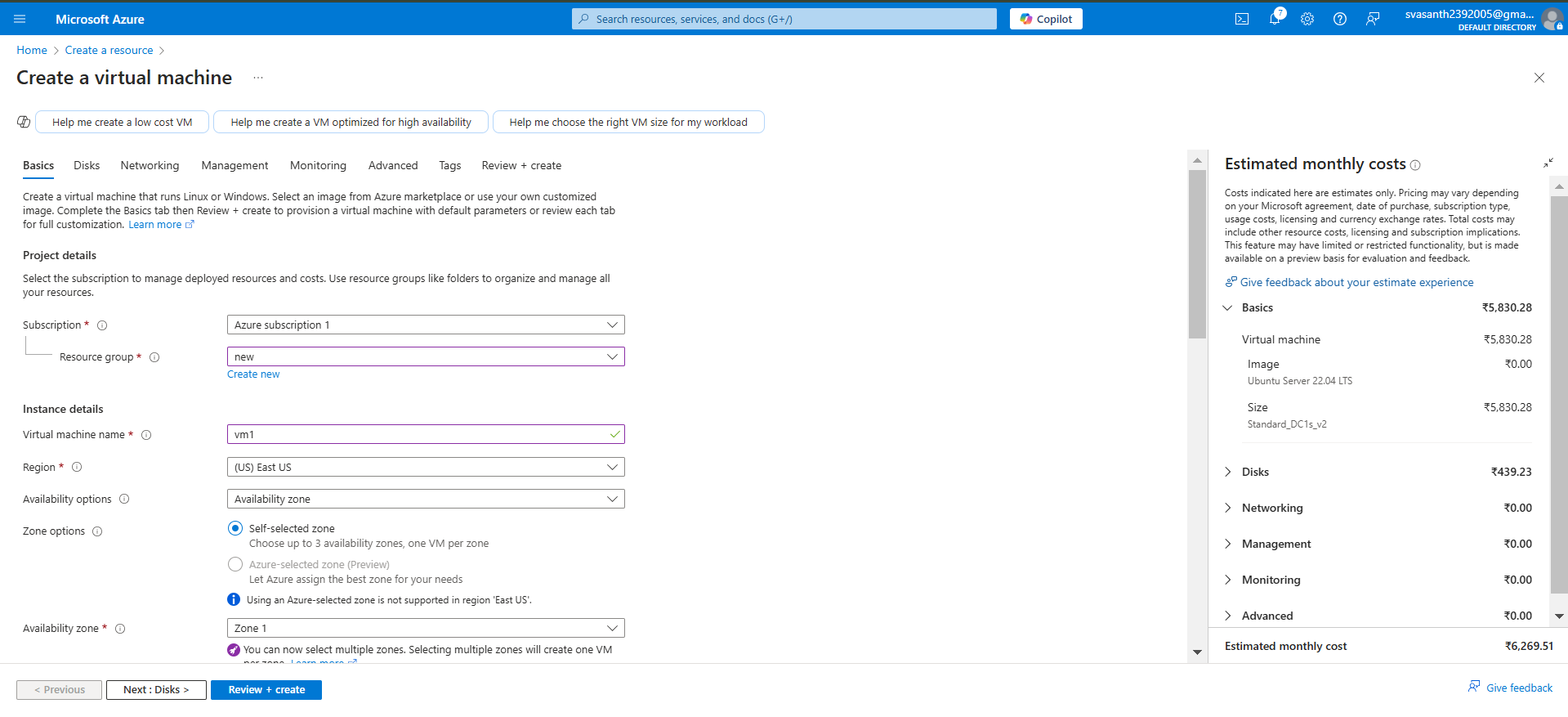
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**Step 12:**

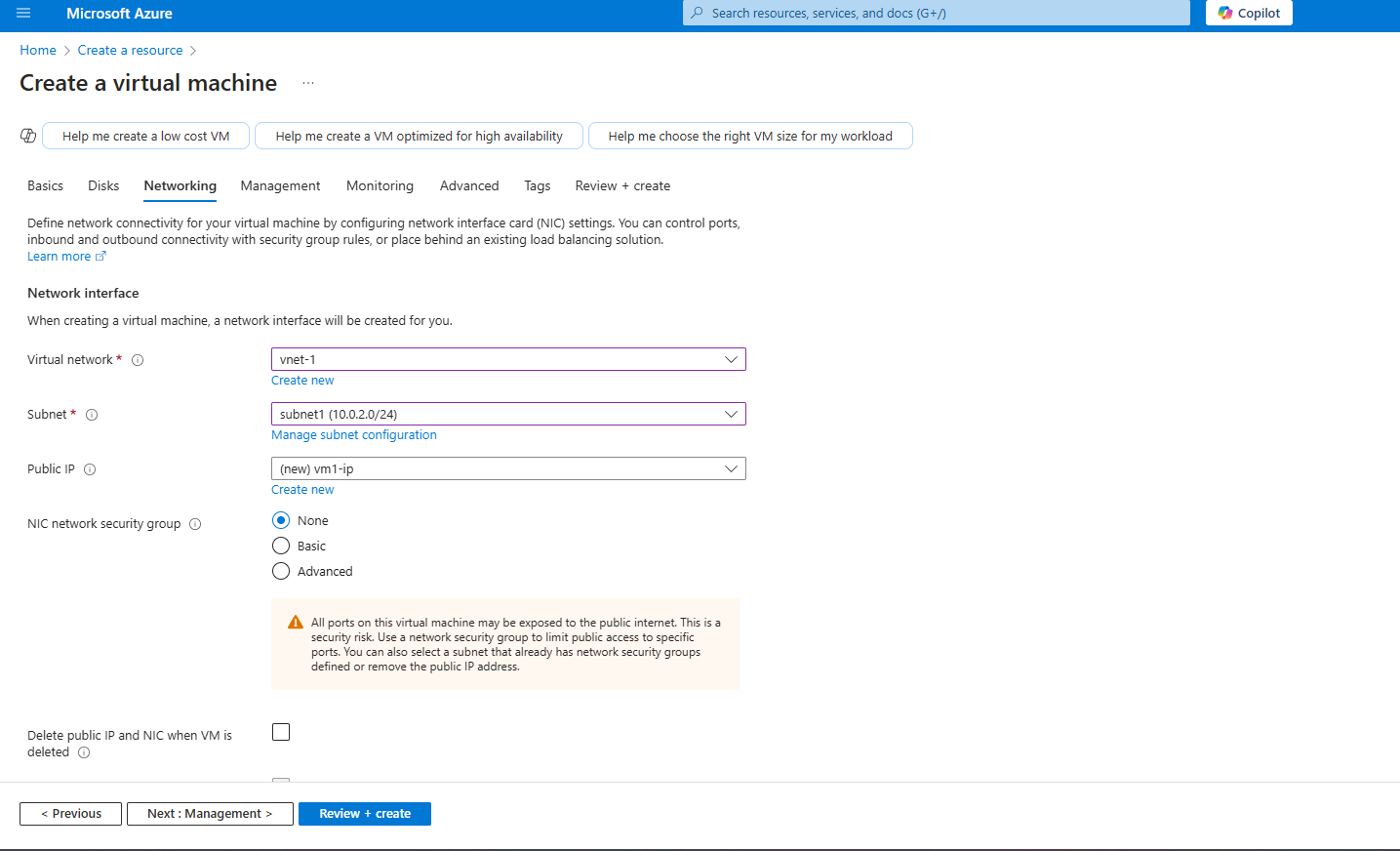
Now create a virtual machine with basic requirements.

And move to networking section in the following

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**STEP 13:**

In networking section add your vnet and subnet you created for connection**.**

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**STEP 14:**

Then create your virtual machine. That’s it your task is completed.

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