Implement Hub and Spoke topology
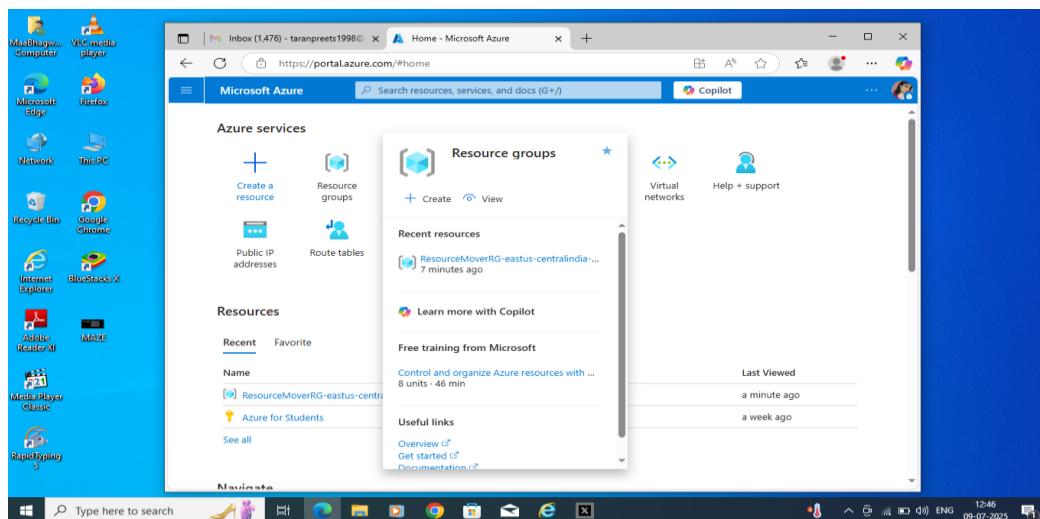
STEP 1.

Azure Portal Homepage

1. Open your browser and go to: https://portal.azure.com

2. After logging in, on the **Home** screen:

   Click on **"Resource groups"** under **Azure services**

   Or click **"Create a resource"** → then search and select **Resource group**

STEP 2

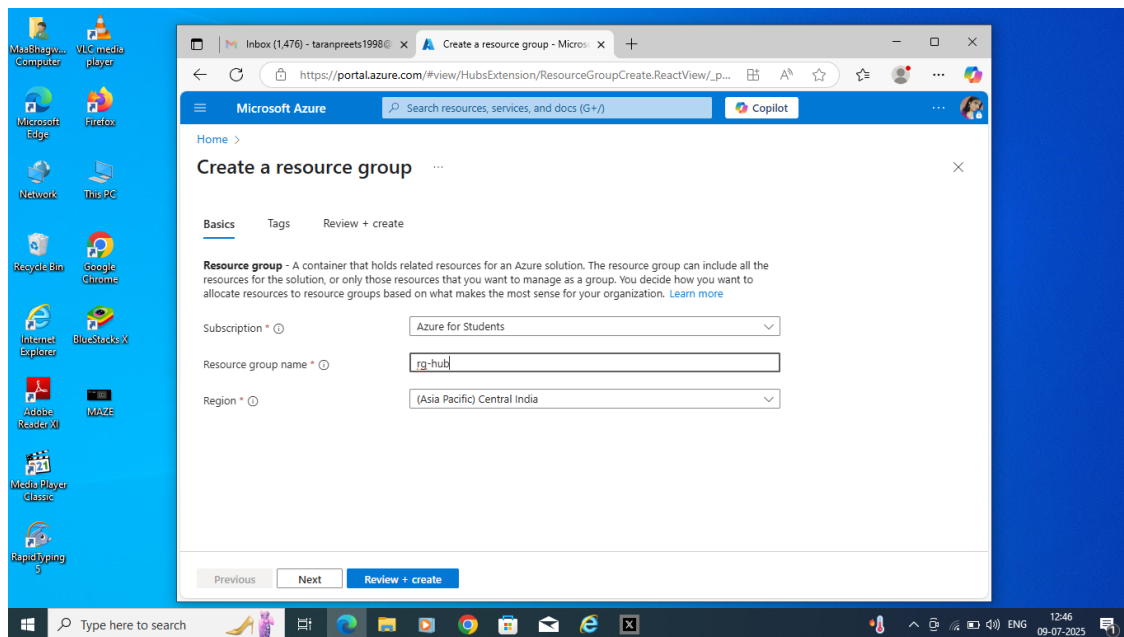**Create Resource Group – Hub**

3. On the **Create a resource group** page:

   Subscription: Select your subscription (e.g., "Azure for Students")

   Resource group name: Enter rg-hub

   Region: Select (Asia Pacific) Central India

4. Click **Review + Create** → then click **Create**
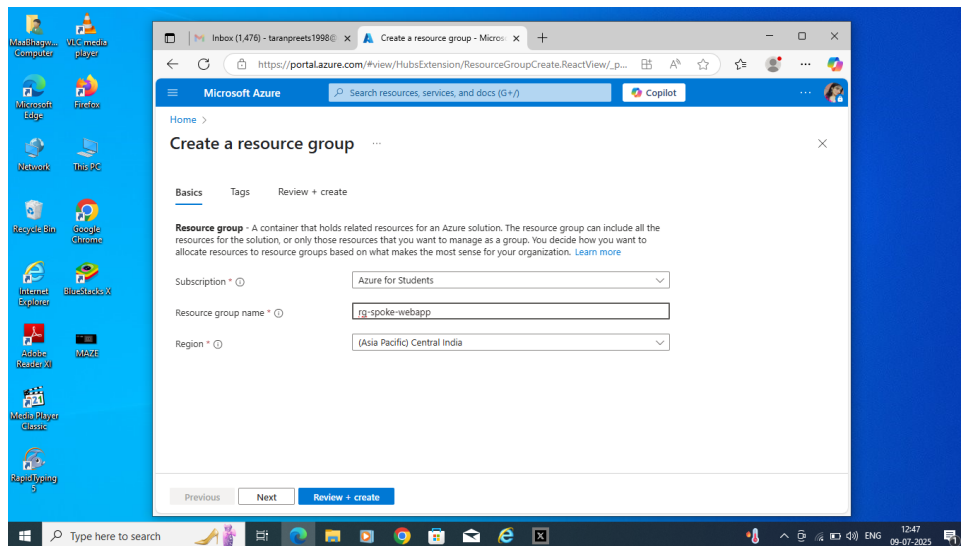
STEP 3

Create Resource Group - Spoke

5.   Repeat the steps to create a second resource group:

> **Resource group name**: rg-spoke-webapp

> Keep the same region (Asia Pacific) Central India

6.   Again, click **Review + Create → Create**

You can do the same for another resource group named rg-spoke-storage if needed

STEP 4

Resource Groups List View

7. After creation, navigate to:

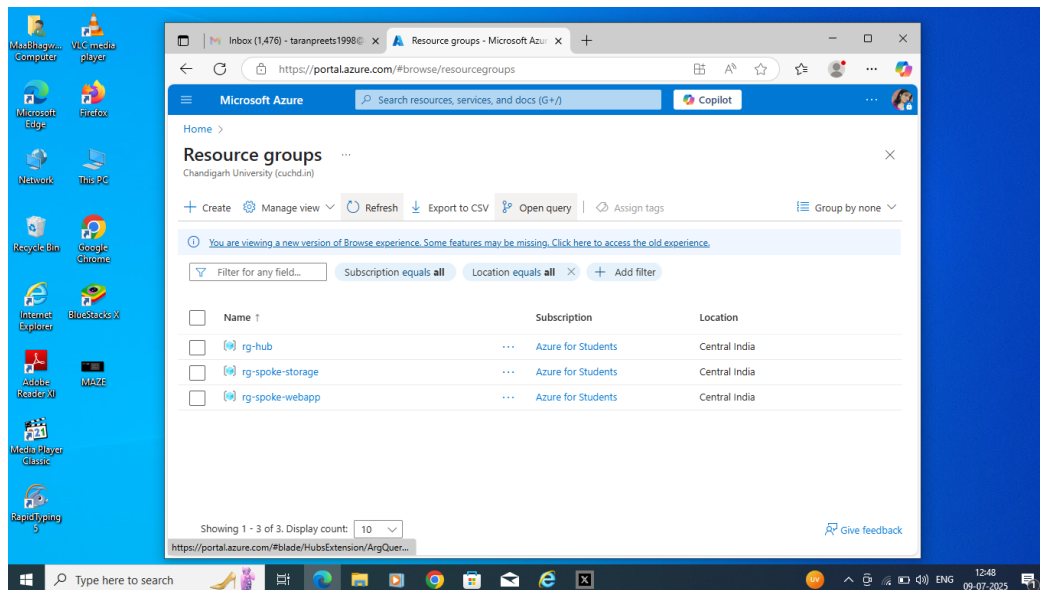   **Home → Resource groups**

8. You will now see the list:

   rg-hub

   rg-spoke-webapp

   rg-spoke-storage

   All under "Azure for Students" subscription and "Central India" region

These resource groups are now ready for you to create:

Hub VNet and central components in rg-hub

Web App in rg-spoke-webapp
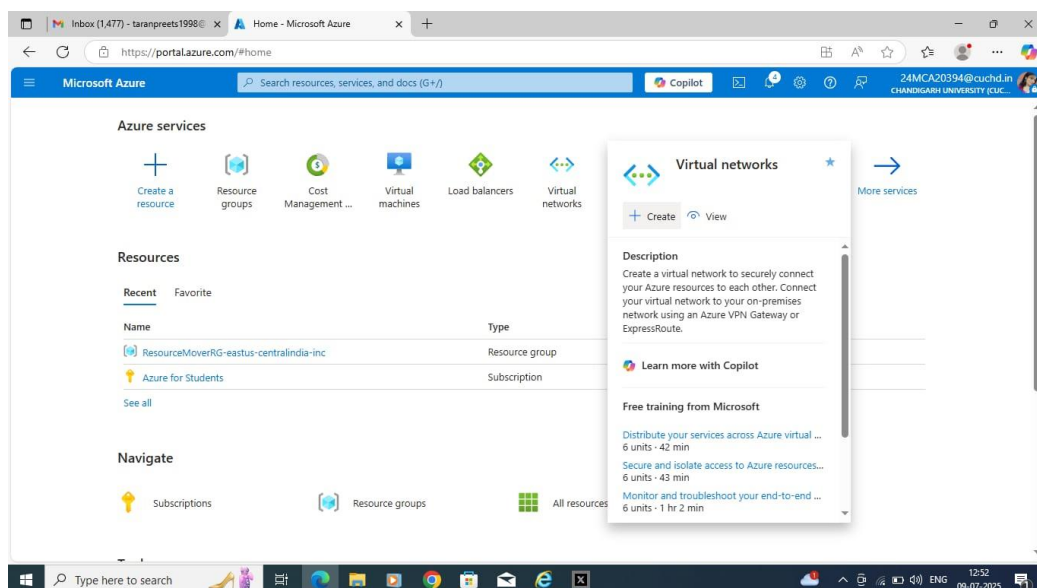
storage Account in rg-spoke-storage

THEN   NEXT

Steps to Create Virtual Networks (VNets) in Azure

Navigate to Virtual Networks

1. Go to https://portal.azure.com

2. On the Azure Home page:

   Click on **Virtual networks** under **Azure services**

   Then click **+ Create** to start creating a new virtual network

Create Virtual Network – Hub VNet

3. In the **Create virtual network** form:

    Subscription: Select Azure for Students

    Resource group: Select rg-hub

    Virtual network name: Enter vnet-hub

    Region: Select (Asia Pacific) Central India

4. Click **Review + create**, then click **Create**

Create Virtual Network – Spoke1 VNet

5. Repeat the same steps:

   Subscription: Azure for Students

   Resource group: rg-spoke-webapp

   Virtual network name: vnet-spoke1

   Region: Central India

6. Click **Review + create**, then **Create**

View All Created VNets
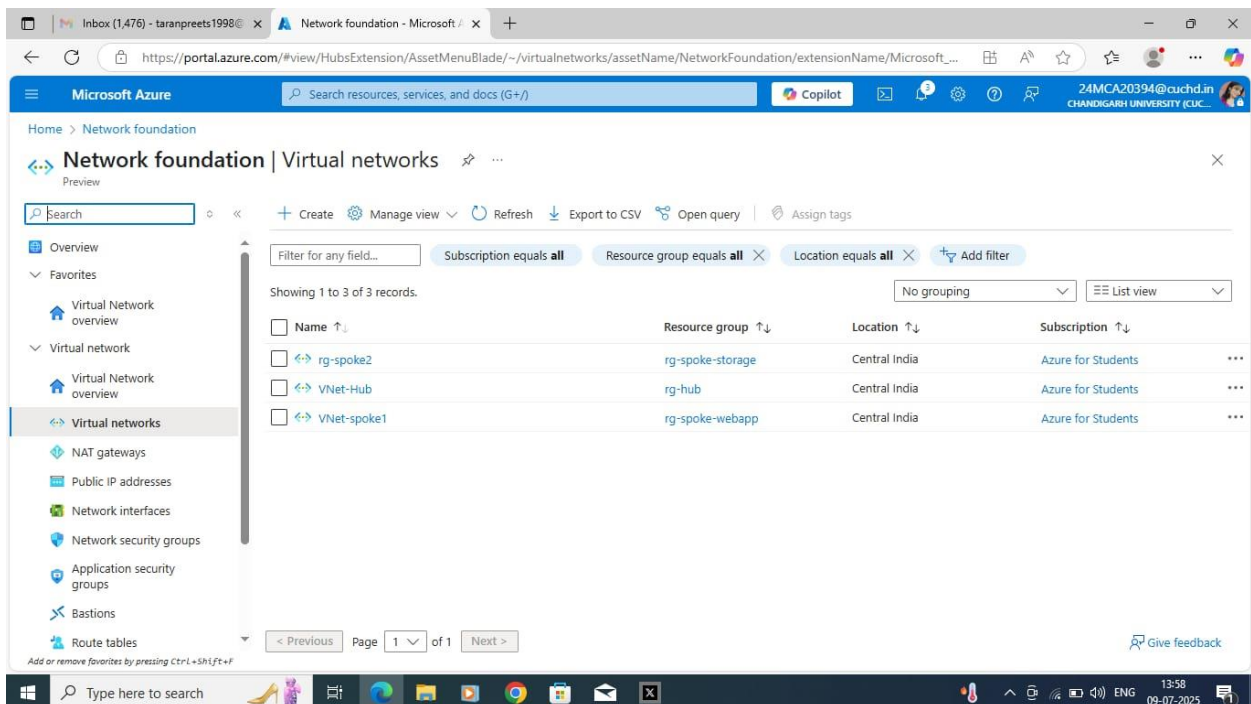
7. After creation, go to:

   Virtual networks from the left menu or Home page

   We will now see:

   vnet-hub under rg-hub

   vnet-spoke1 under rg-spoke-webapp

   vnet-spoke2 under rg-spoke-storage (created separately)

VNet Overview (Spoke2)

8. Select vnet-spoke2 to view its **details**:

   Resource Group: rg-spoke-storage

   Region: Central India

   Address Space: 10.2.0.0/16

   we can configure:

   Subnets

   Peerings

   Firewall

   DNS settings