# Introduction to Cloud Computing

# LAB 04

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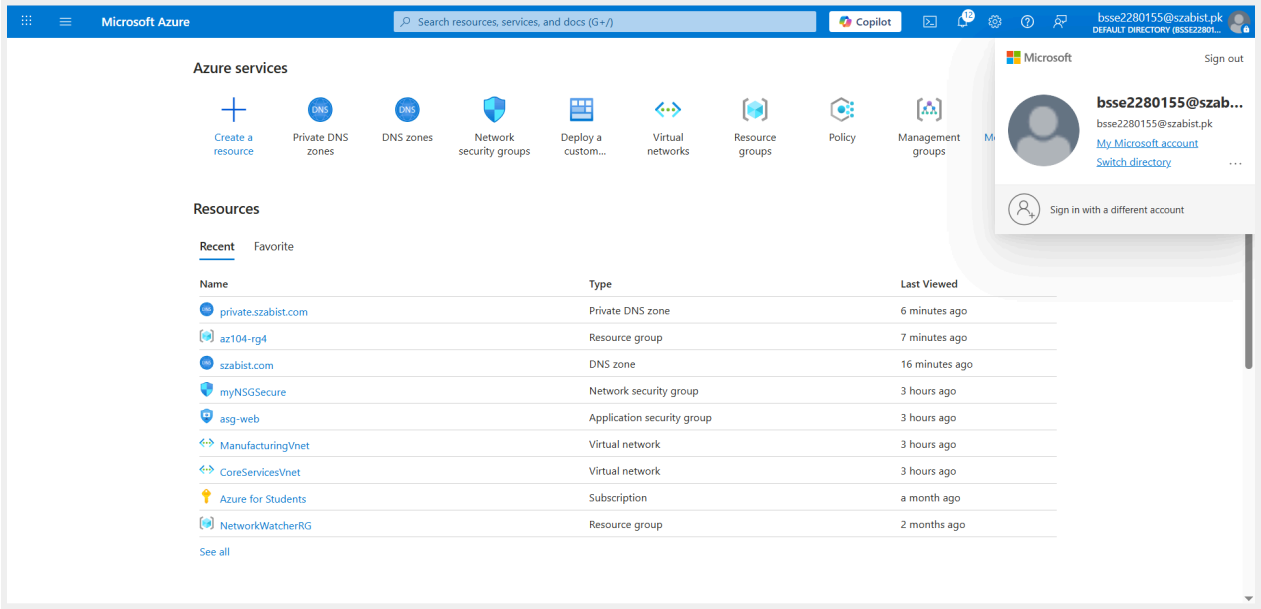
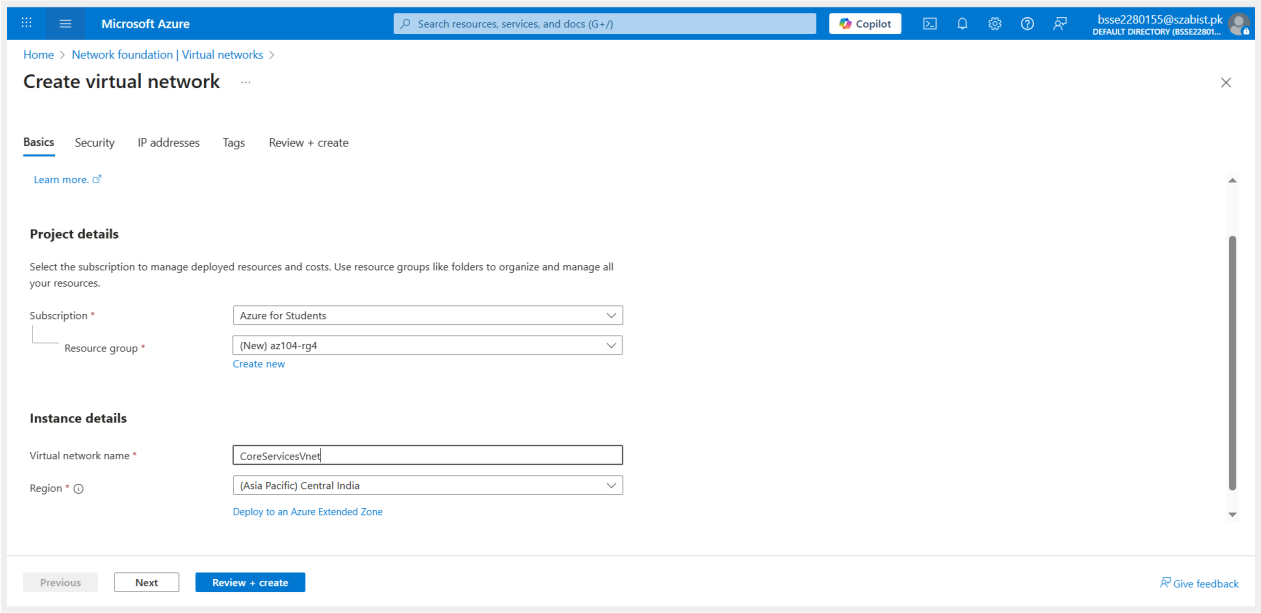
**BS-SE 7B**

## Task 1: Create a virtual network with subnets using the portal

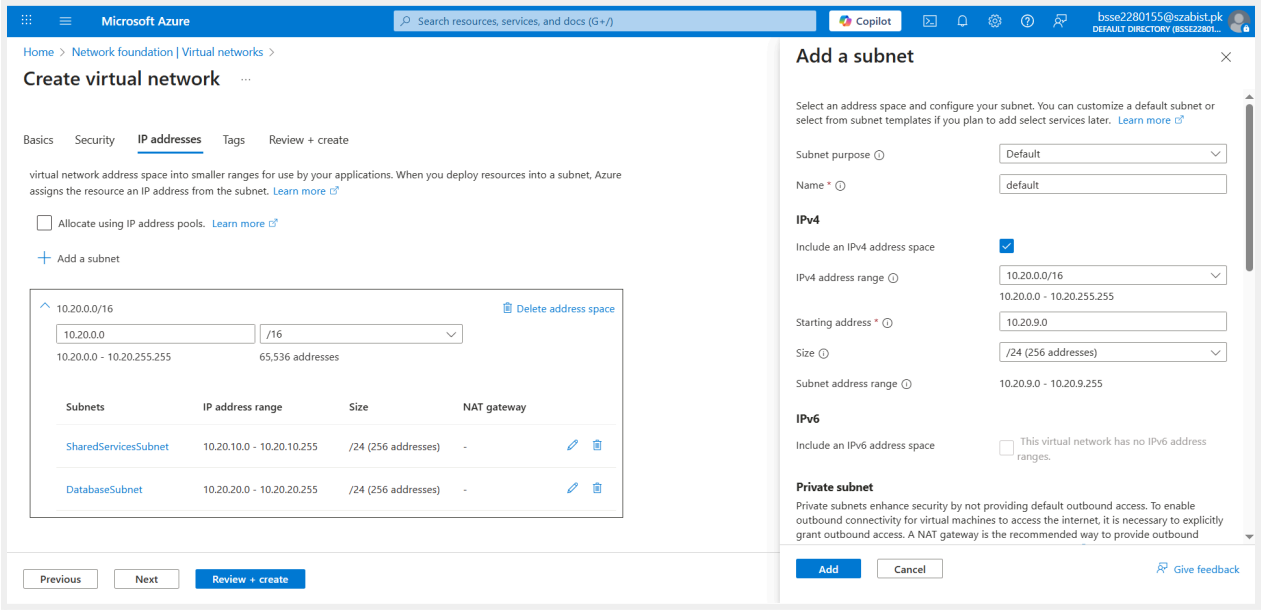
- Sign in to the **Azure portal.**



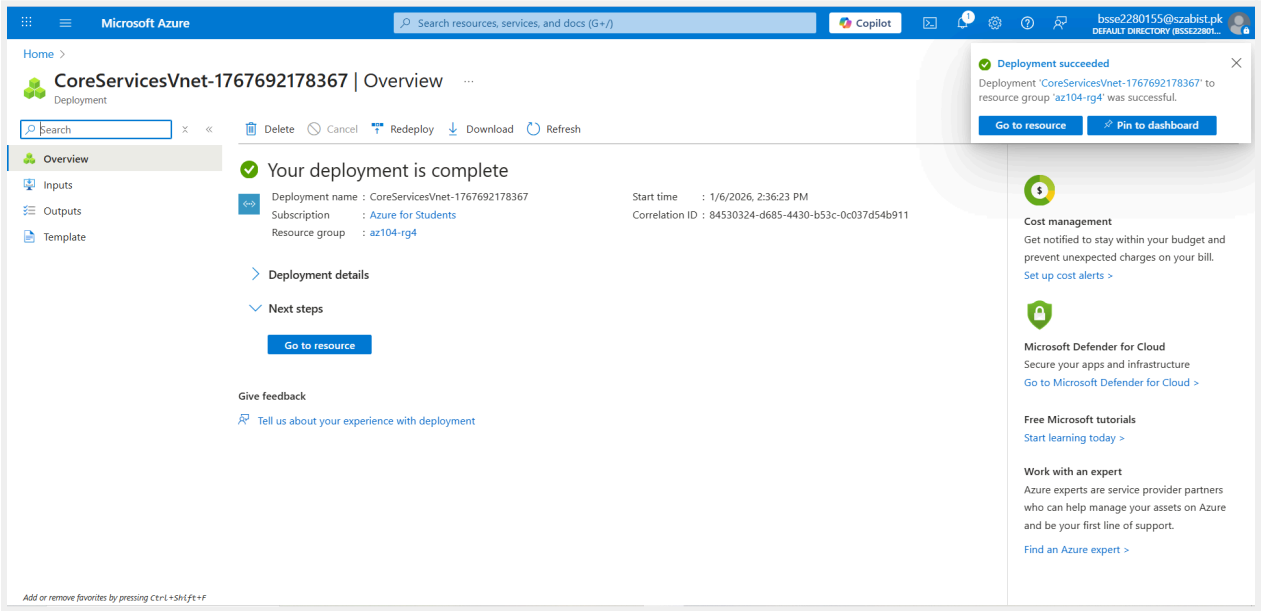

- Search for and select **Virtual Network**.
- Select **Create** on the Virtual networks page.



- Move to the **IP Addresses** tab.
- Select **Add a subnet**.

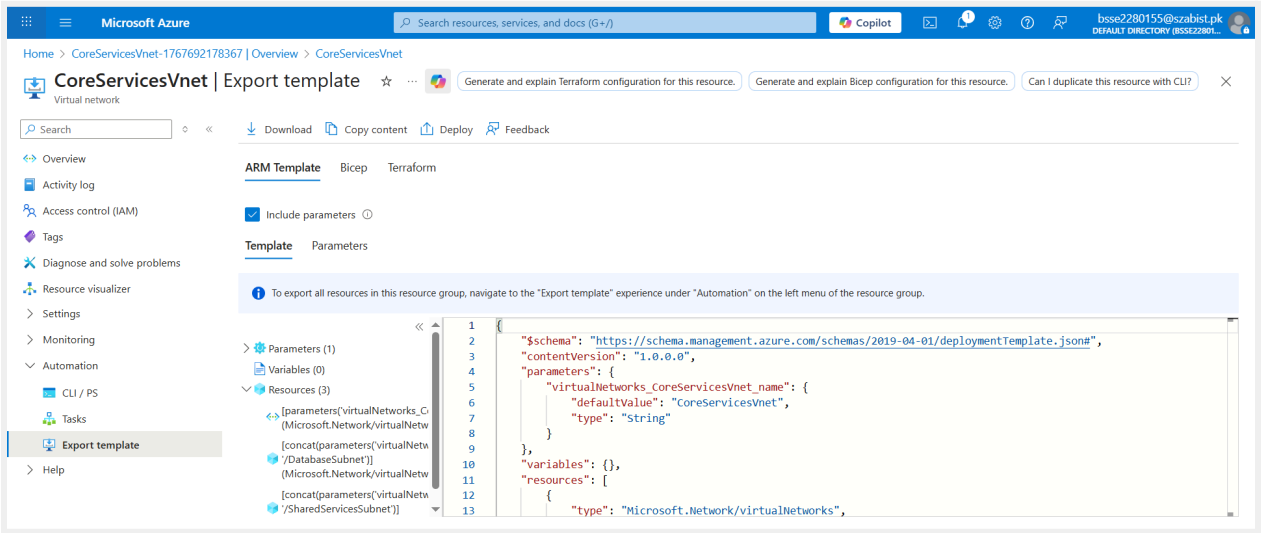



- Select **Review + create**.



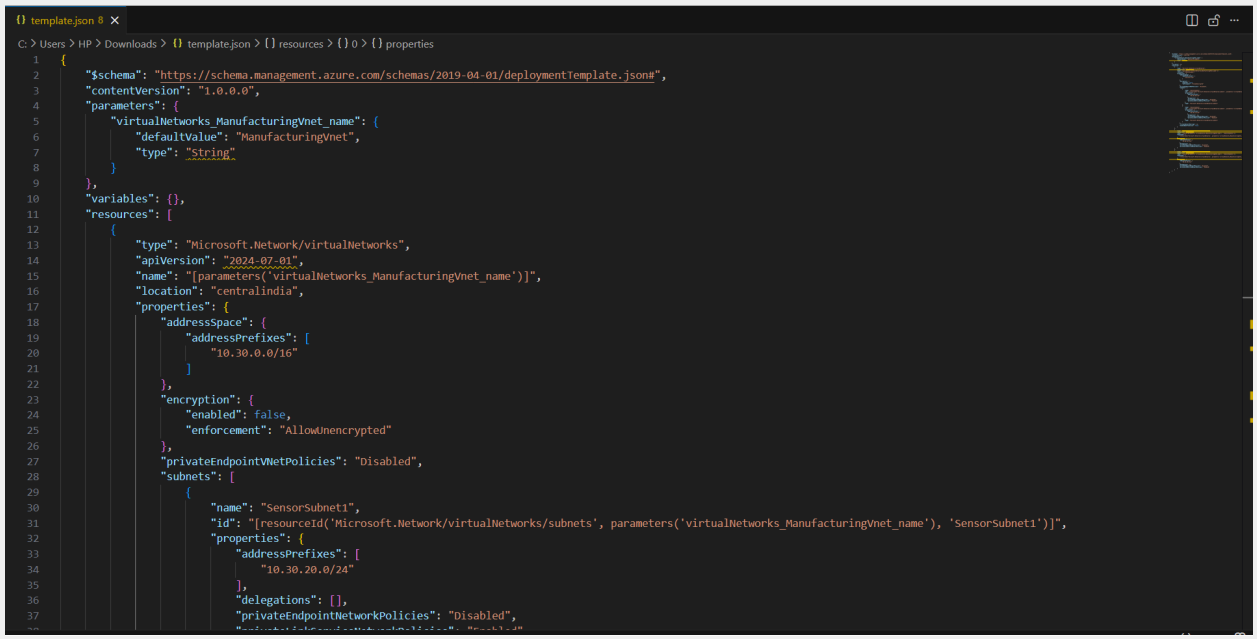

- Wait for the virtual network to deploy and then select **Go to resource**.

- In the **Automation** section, select **Export template**, and then wait for the template to be generated.
- **Download** the template.

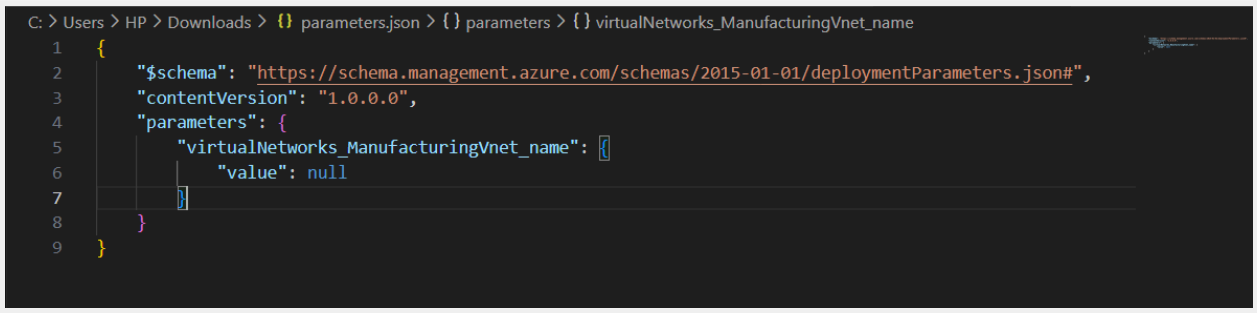



## Task 2: Create a virtual network and subnets using a template

- Locate the **template.json** file exported in the previous task.
- Edit the file. Be sure to **save** your changes.

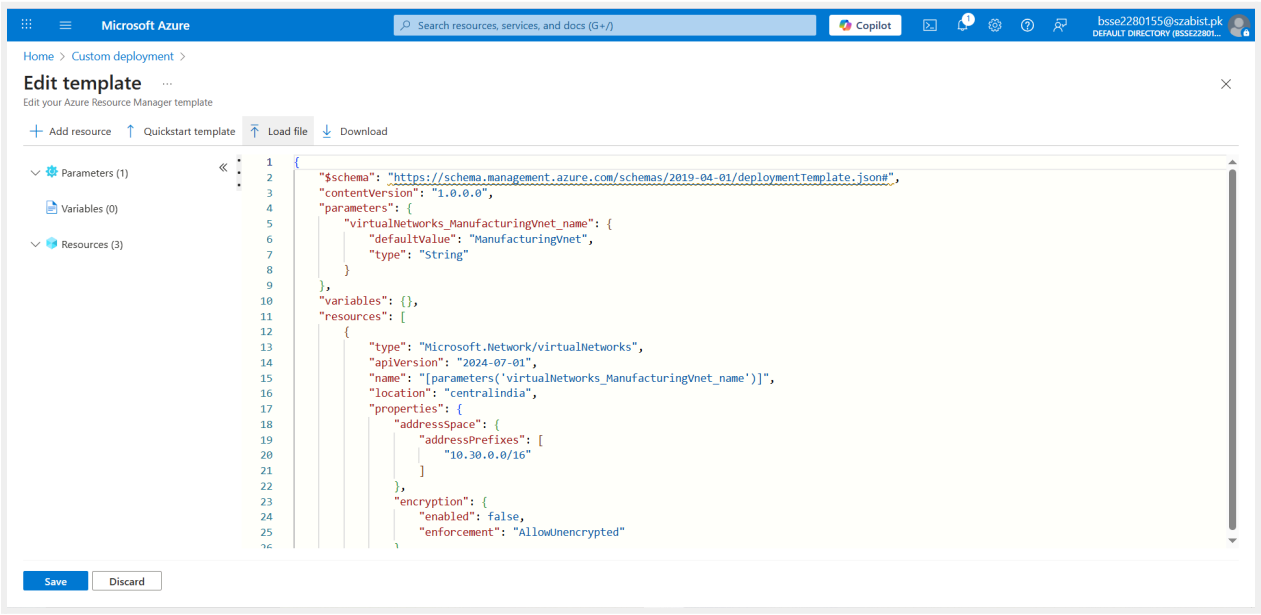



- Make changes to the **parameters** file.

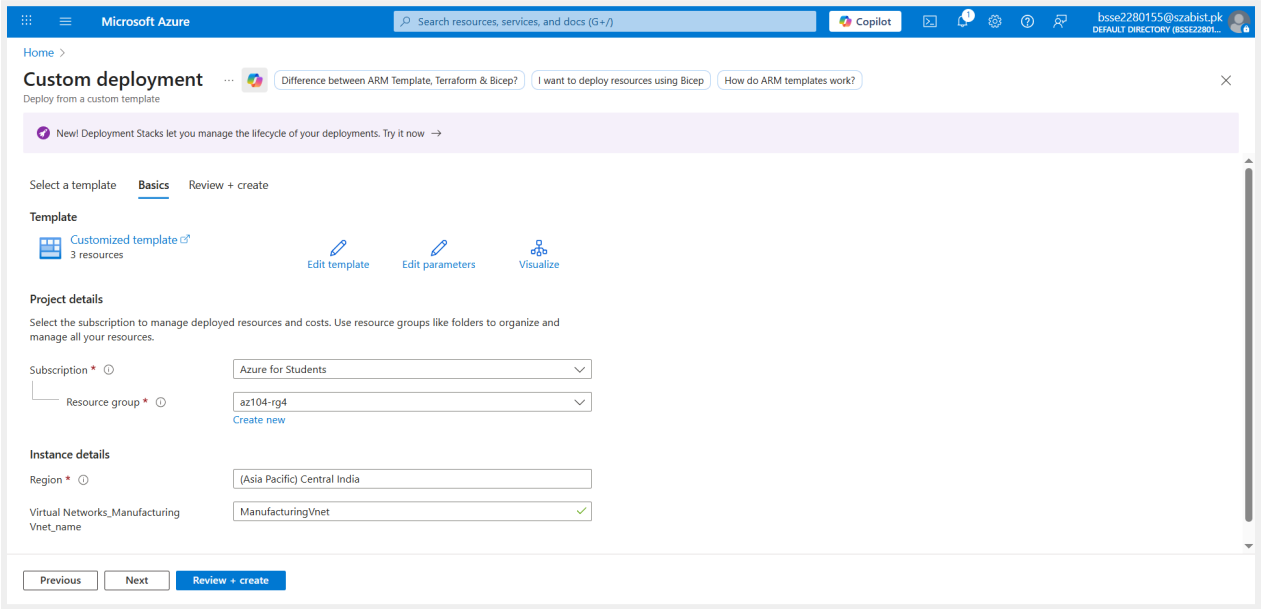



- **Save** your changes.

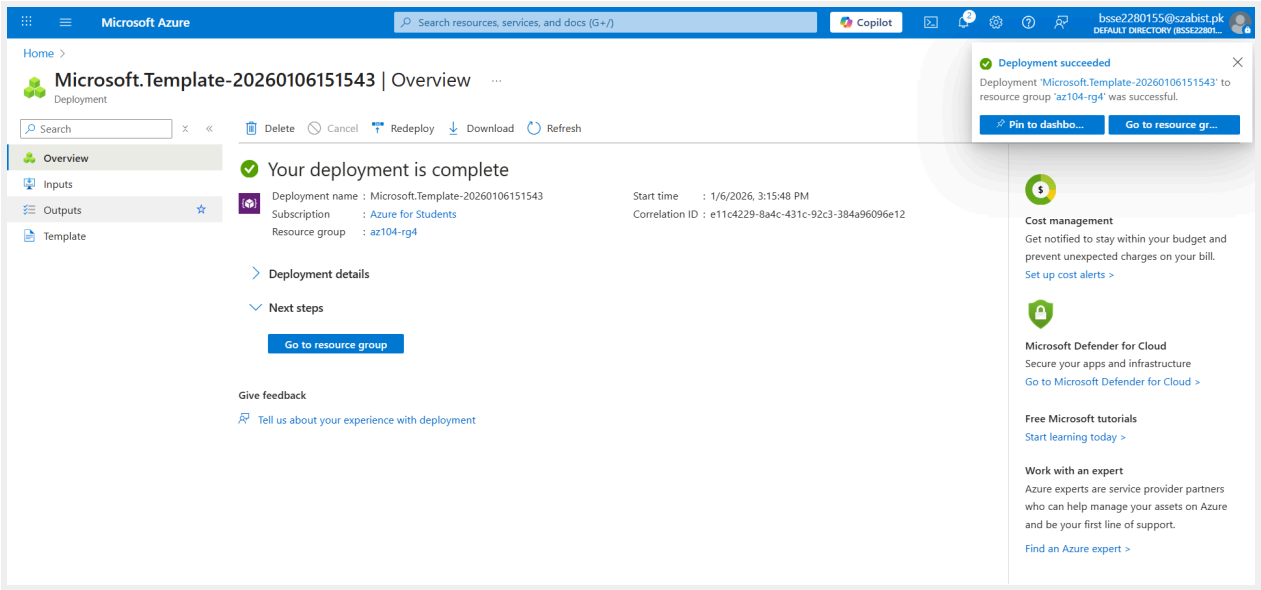
- In the portal, search for and select **Deploy a custom template**.
- Select **Build your own template in the editor** and then **Load file**.
- Select the **template.json** file with your Manufacturing changes, then select **save**.




- Select **Edit parameters**, and then **Load file**.
- Select the **parameters.json** file with your Manufacturing changes, then select **save**.

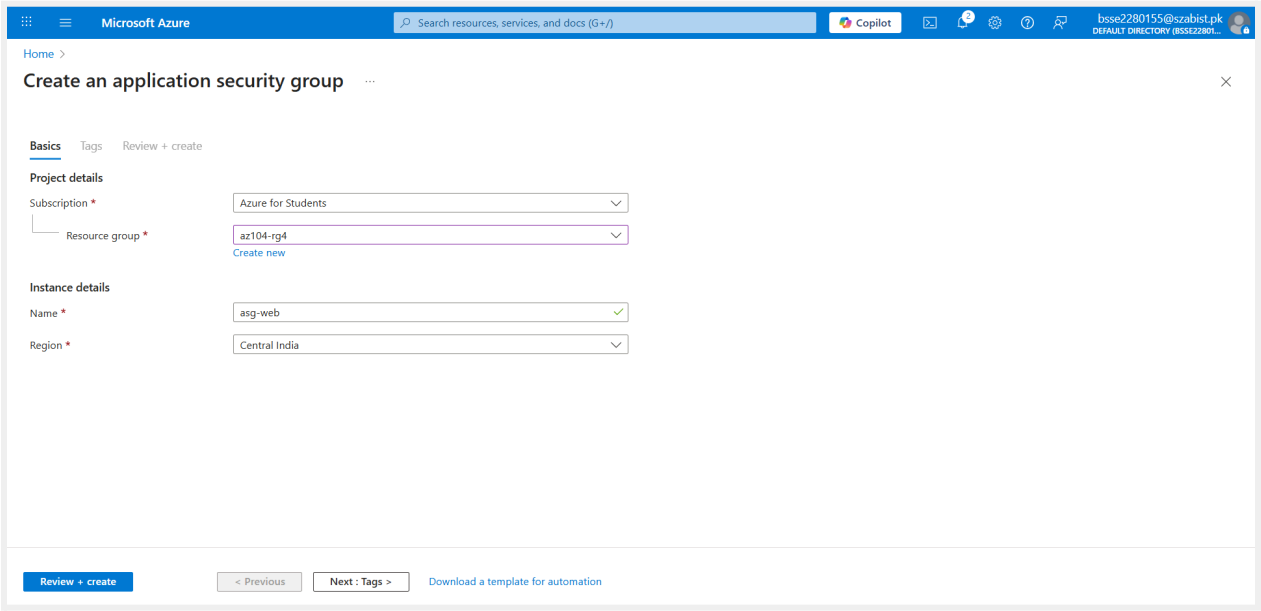



- Select **Review + create** and then **Create**.

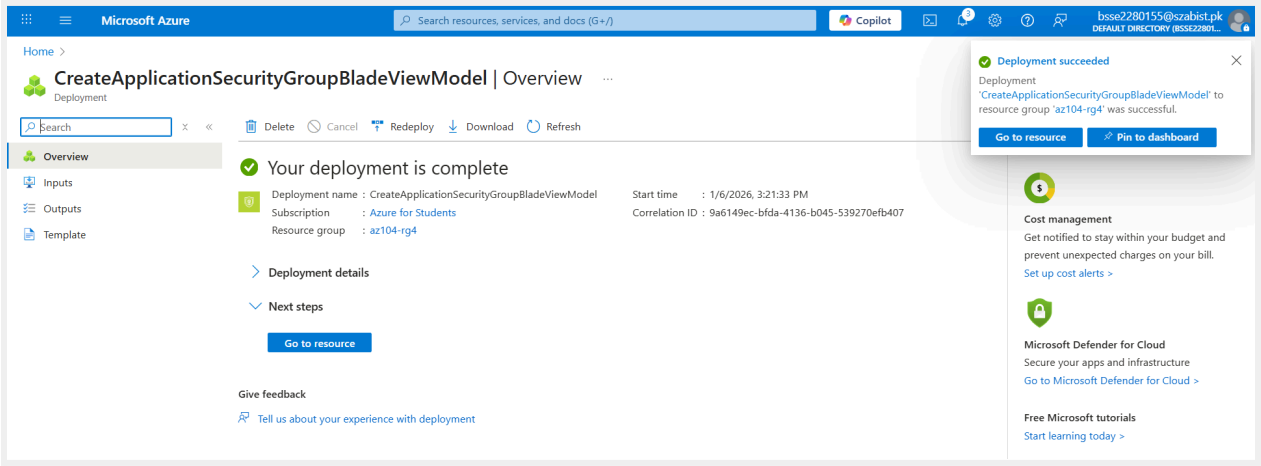



## Task 3: Create and configure communication between an Application Security Group and a Network Security Group

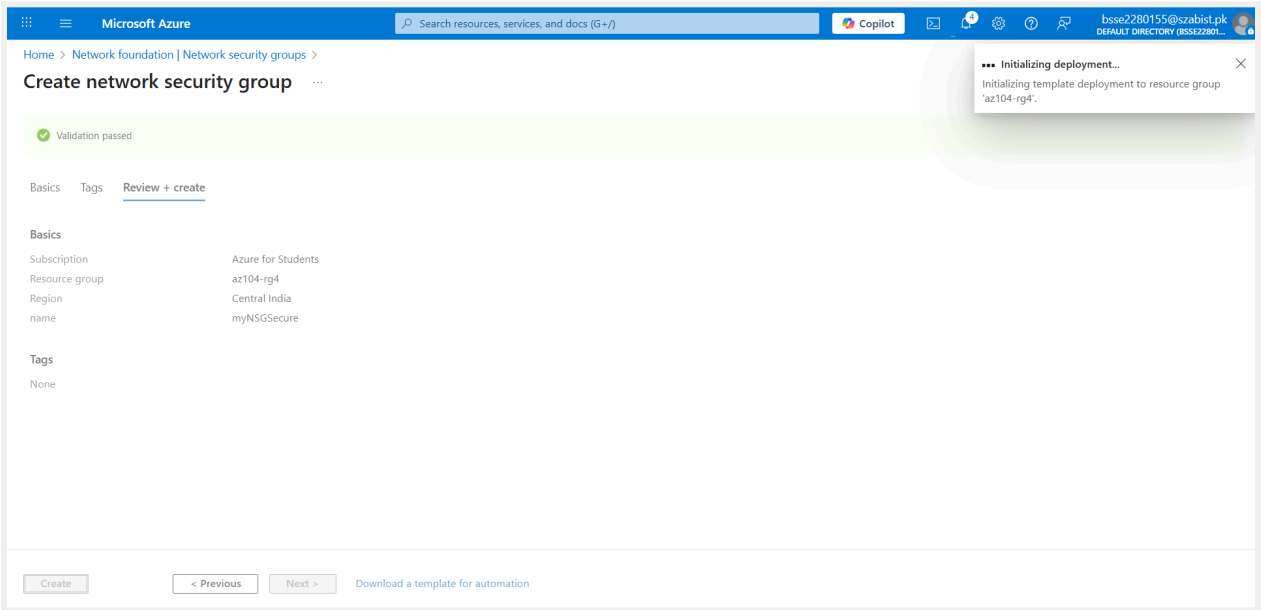
- In the Azure portal, search for and select **Application security groups**.
- Click **Create**.



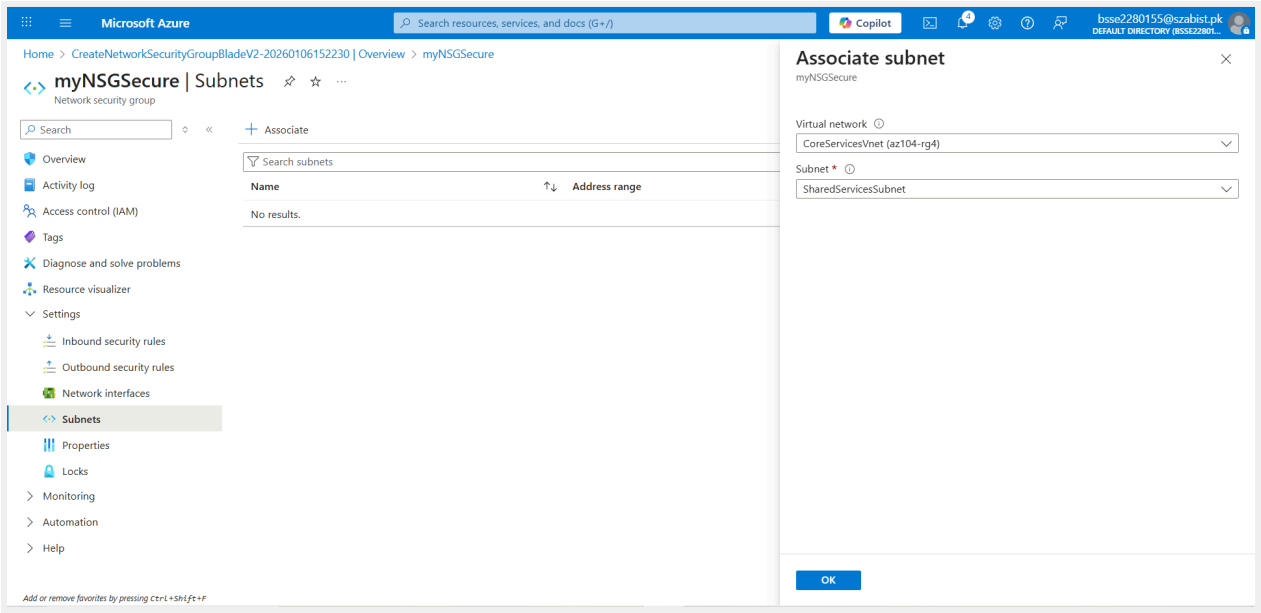
- Click **Review + create** and then after the validation click **Create**.



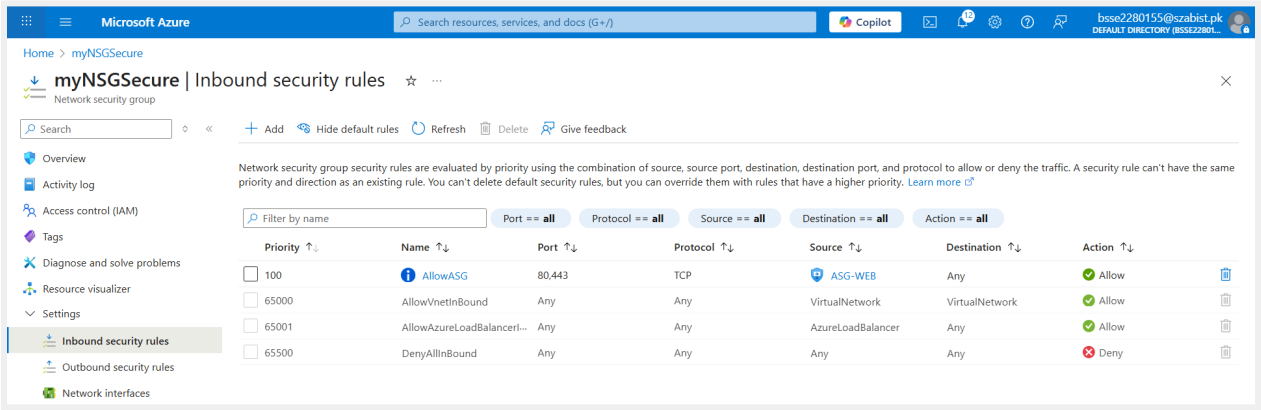

- In the Azure portal, search for and select **Network security groups**.
- Select **Create**.



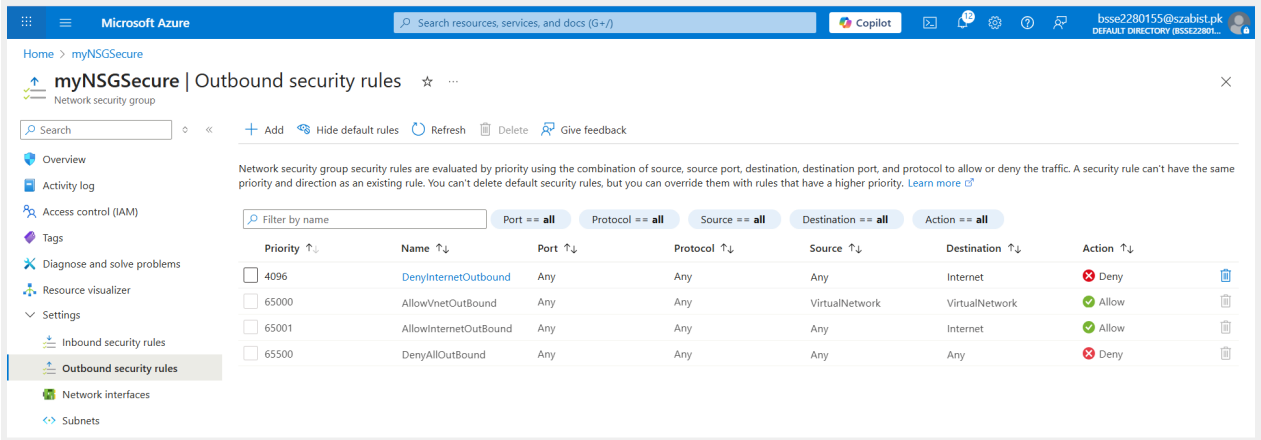
- Under **Settings** click **Subnets** and then **Associate**.




- Configure an inbound security rule to allow ASG traffic

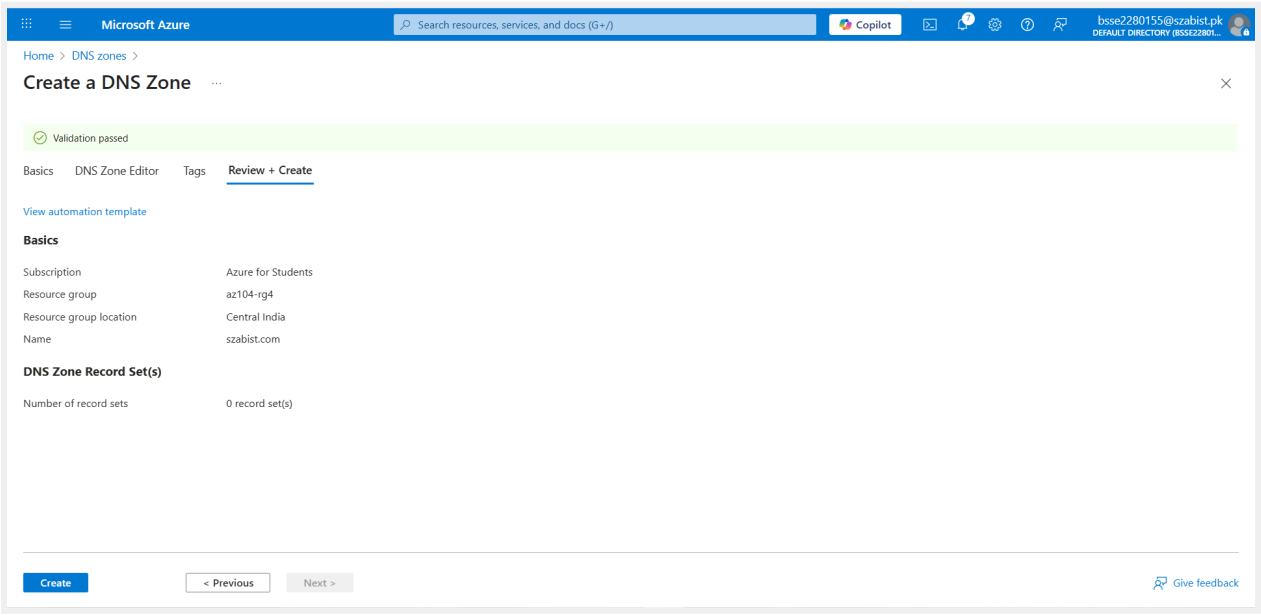



- Configure an outbound NSG rule that denies Internet access

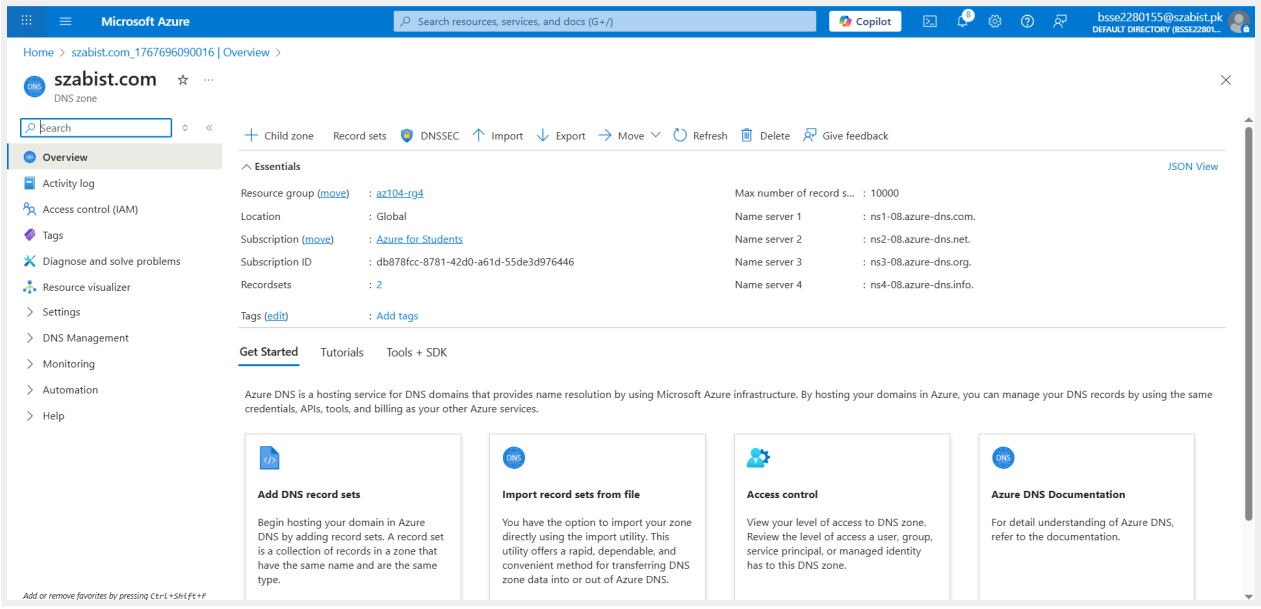


## Task 4: Configure public and private Azure DNS zones

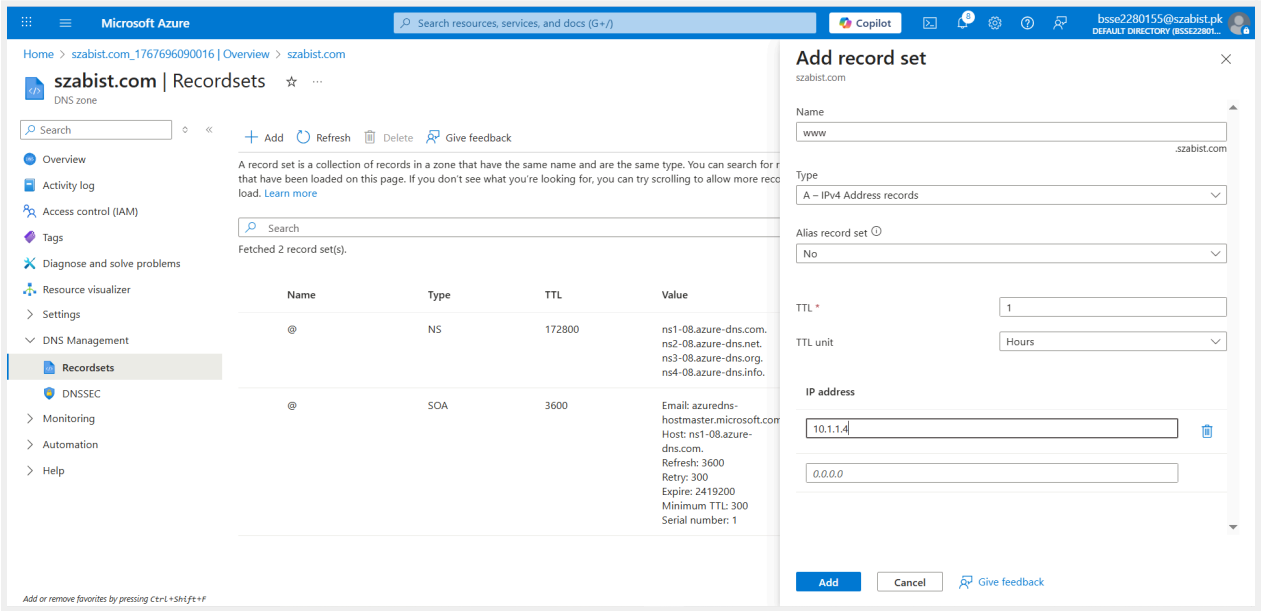
- Configure a **public DNS zone**.



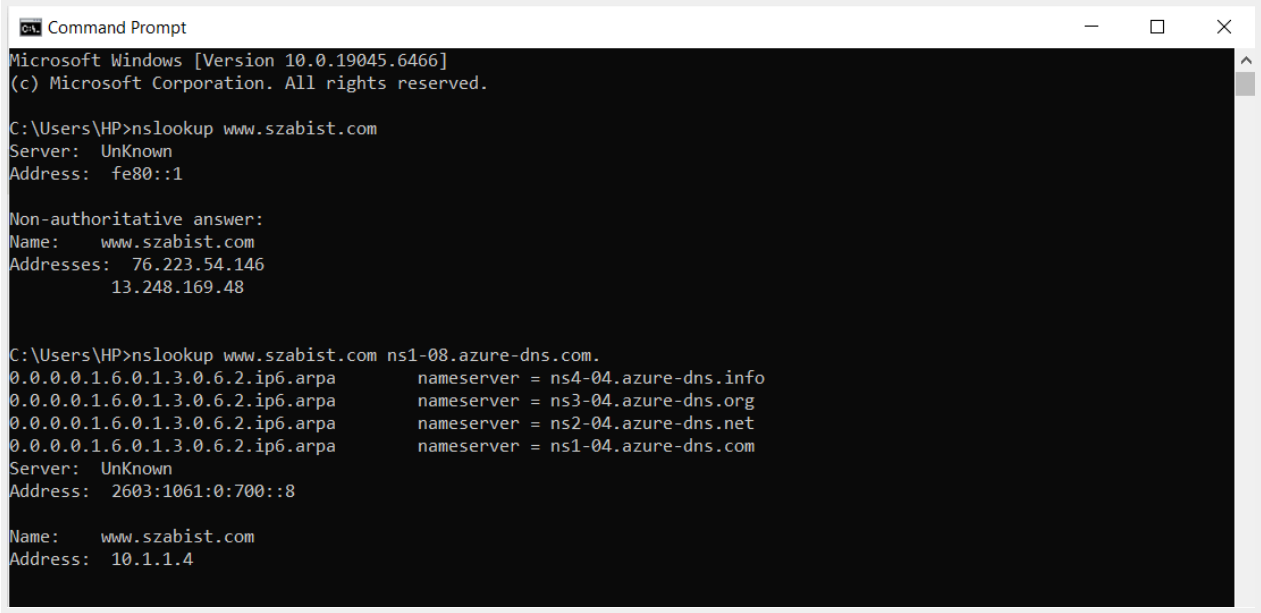

- On the **Overview** blade notice the names of the four Azure DNS name servers assigned to the zone.



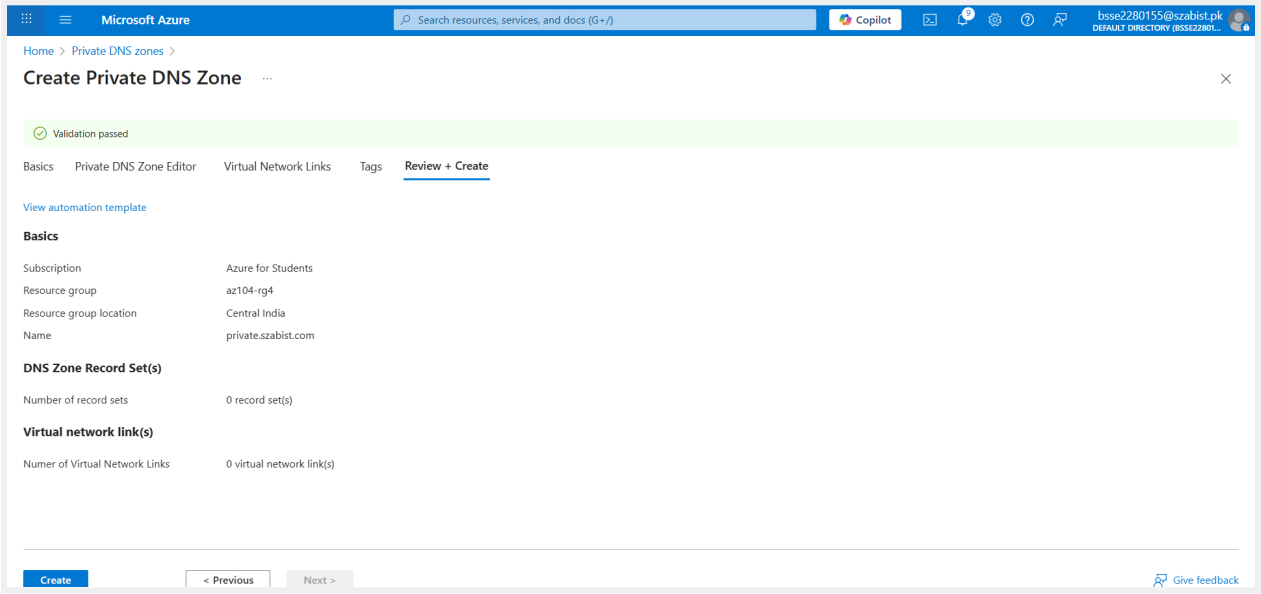
- Expand the **DNS Management** blade and select **Recordsets**. Click **Add**.



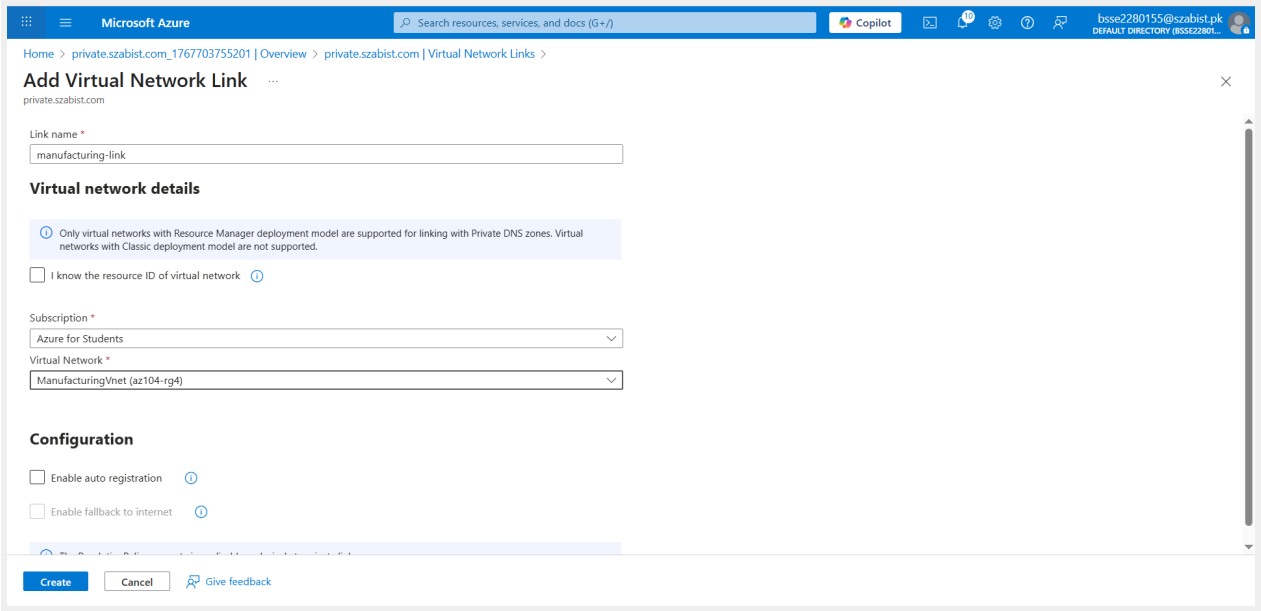

- Verify the host name www.szabist.com resolves to the IP address you provided.



- Configure a private DNS zone.




- Expand the **DNS Management** blade and then select **Virtual network links**.



- From the **DNS Management** blade select **Recordsets**.