**INTRODUCTION TO CLOUD COMPUTING**

**Lab Task 03 (Implement Virtual Networking)**

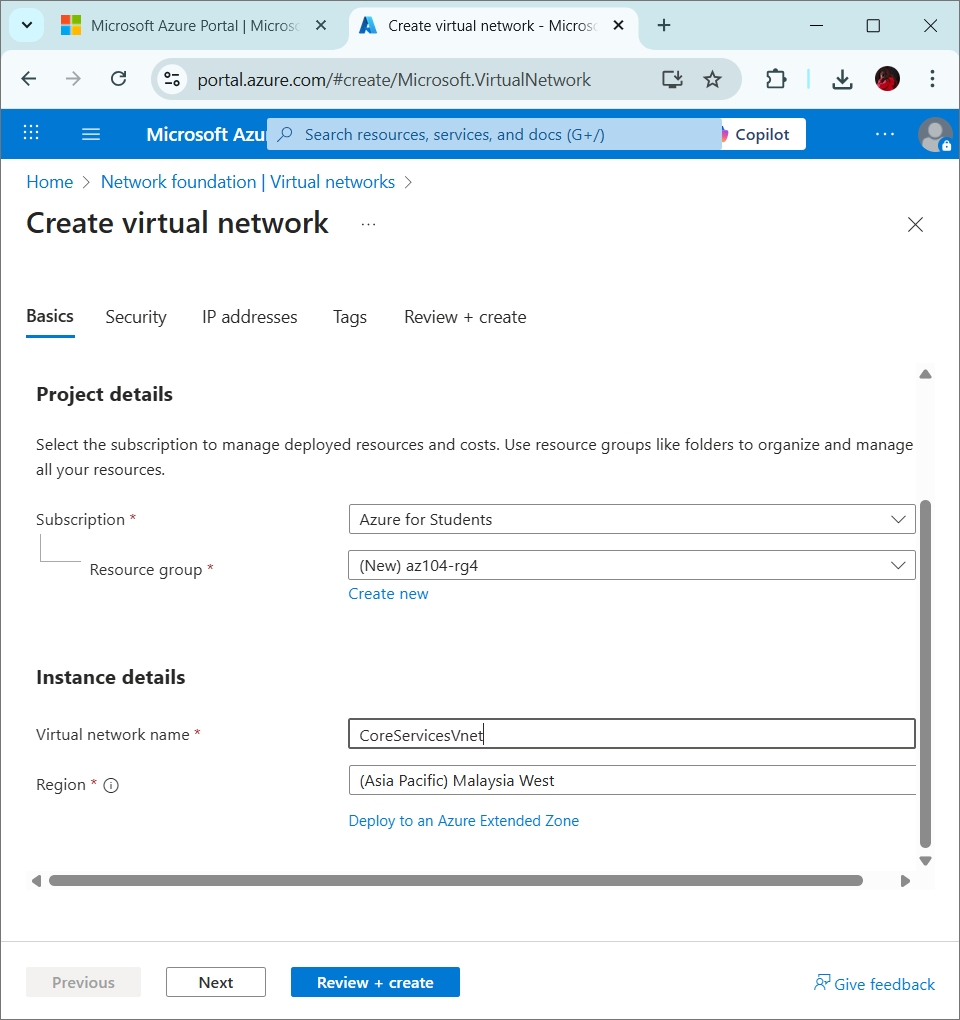
**Name: Arshia M Ali**

**ID: 2280140**

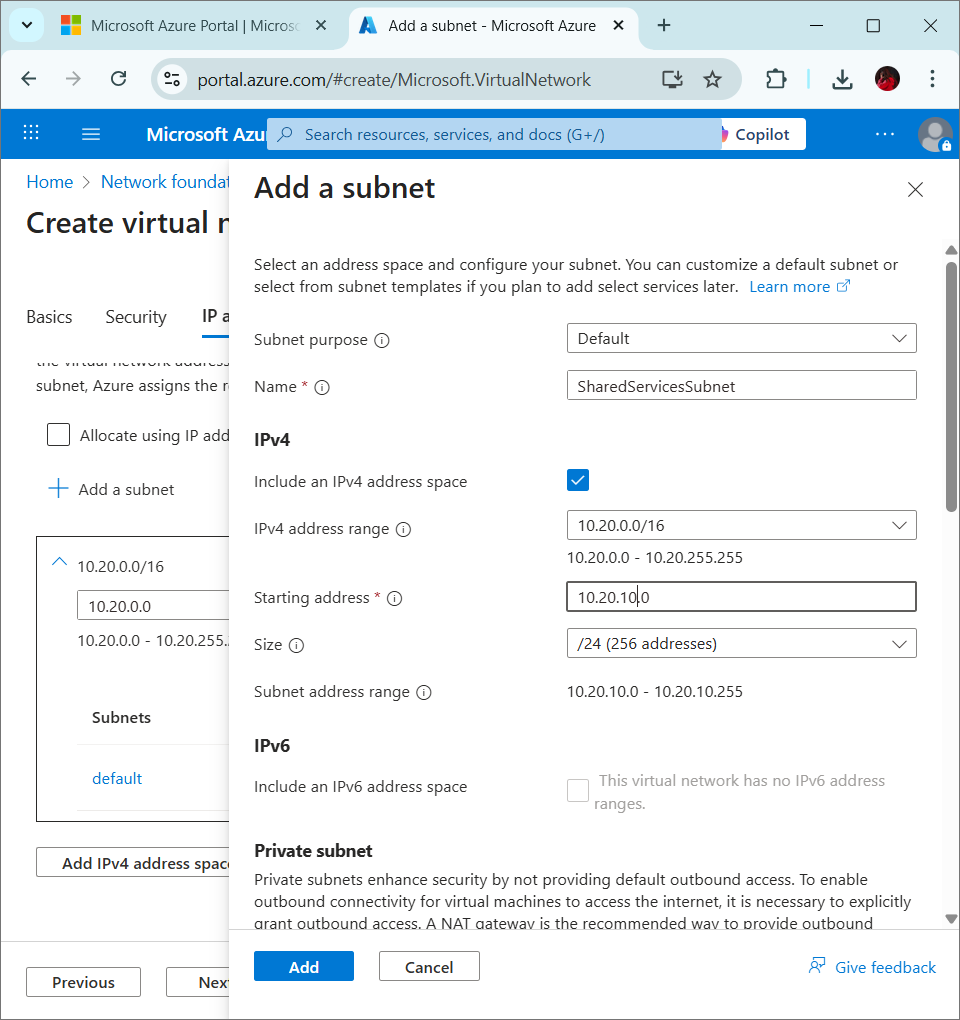
**Section: BSSE 7-B**

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

* Create a Virtual network “CoreServicesVnet”:



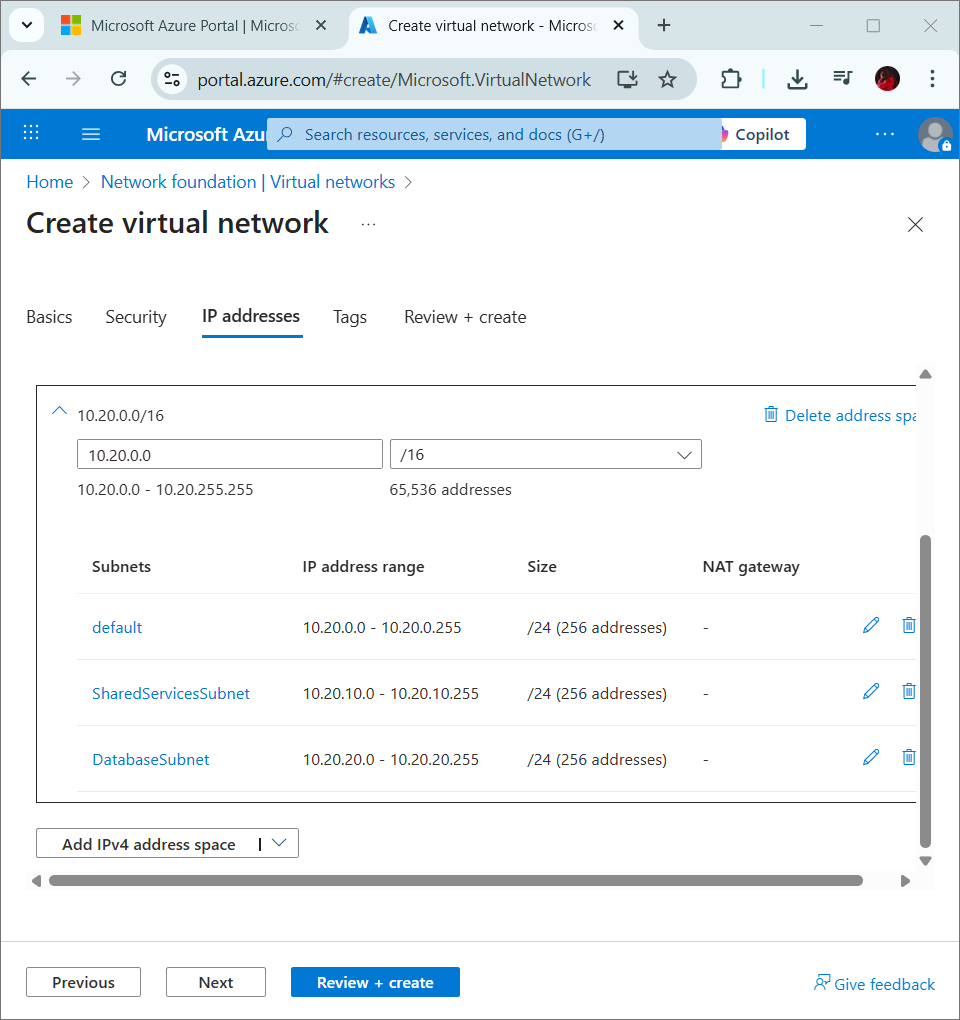
* Configure IP Address Space & Create SharedServicesSubnet:

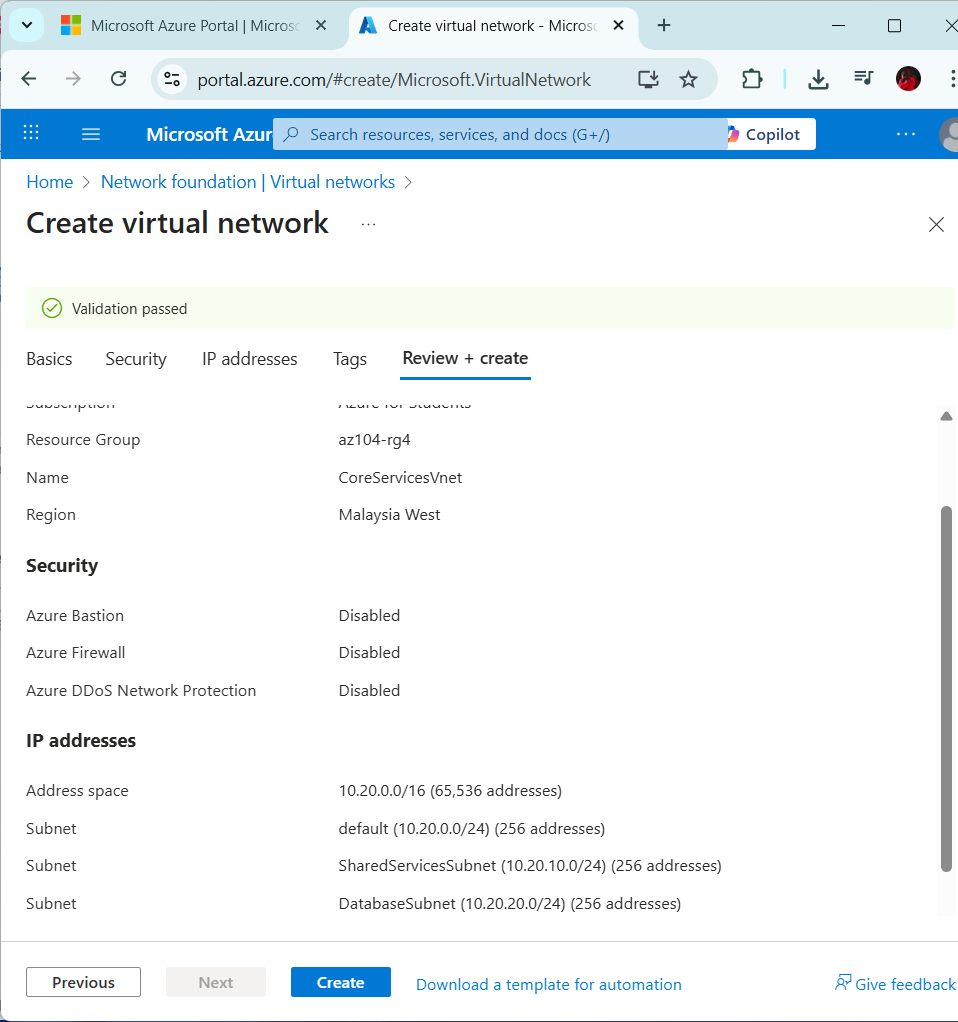


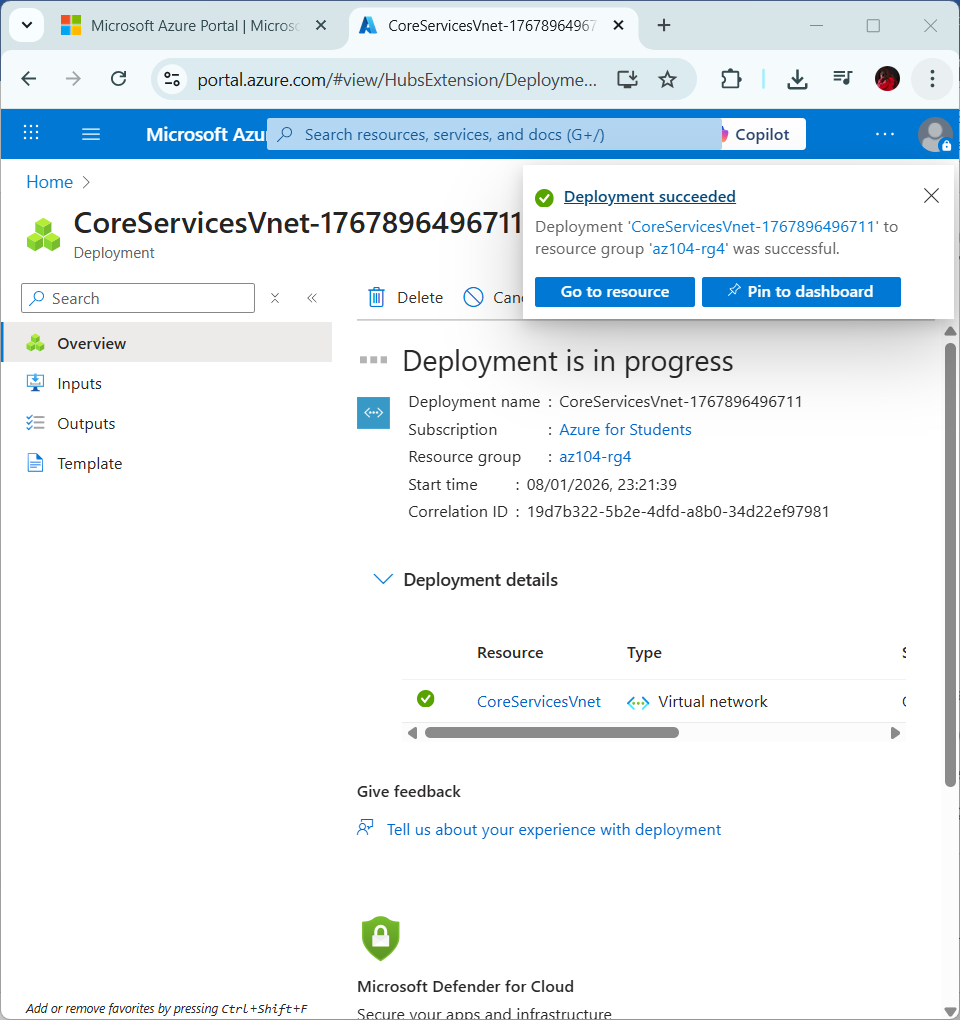
* Create DatabaseSubnet:

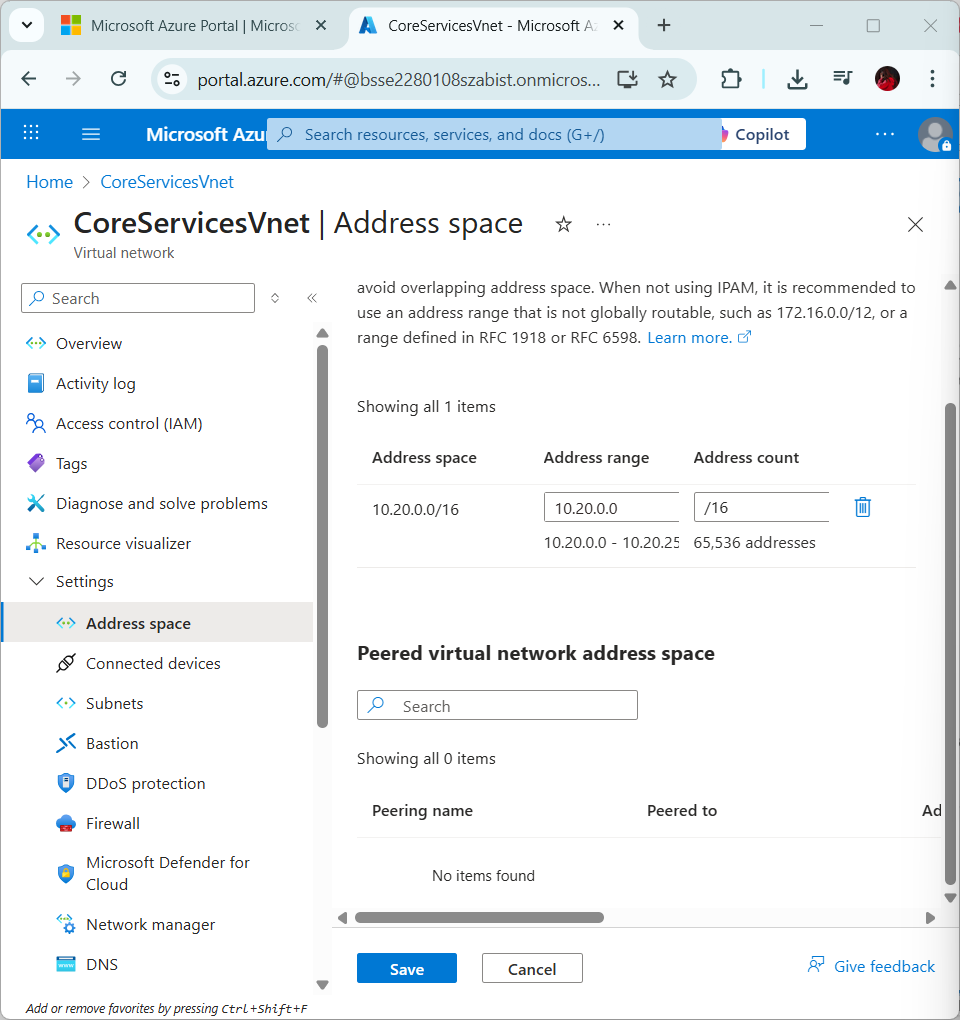


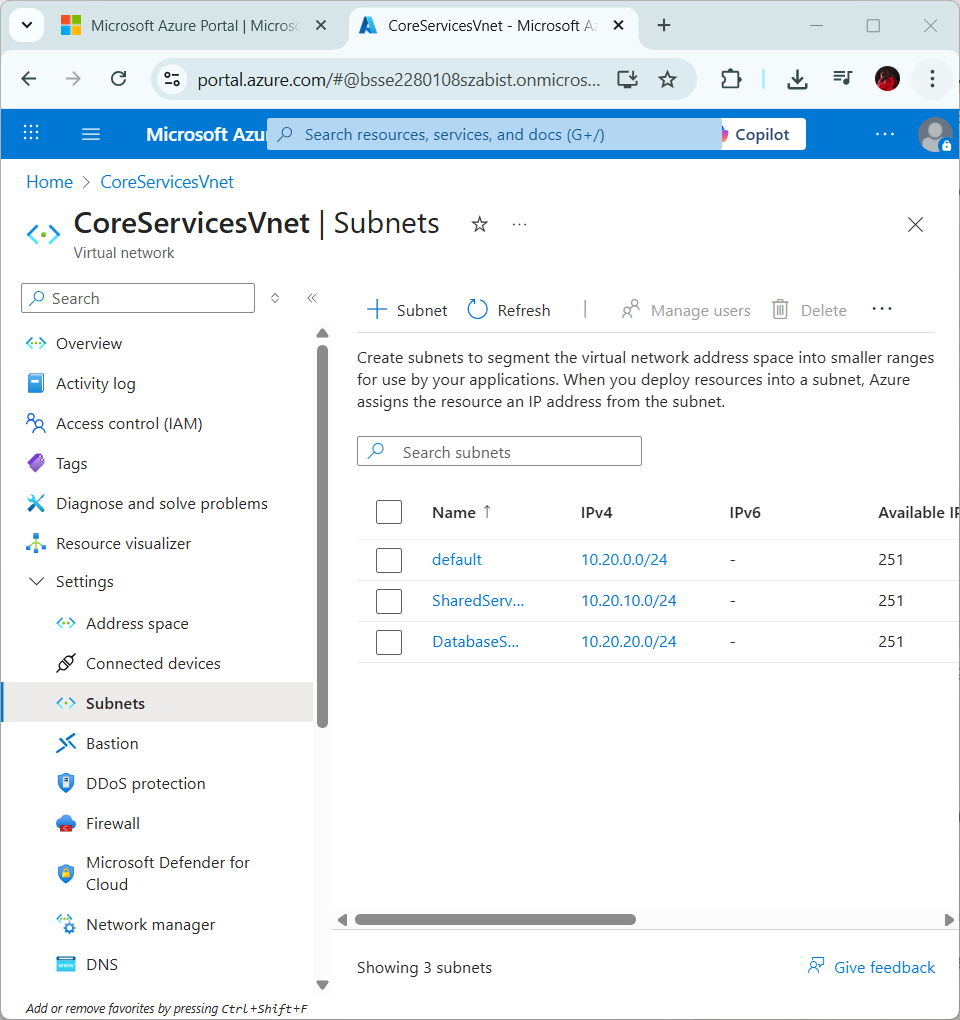
* Verify Virtual Network and Subnets:



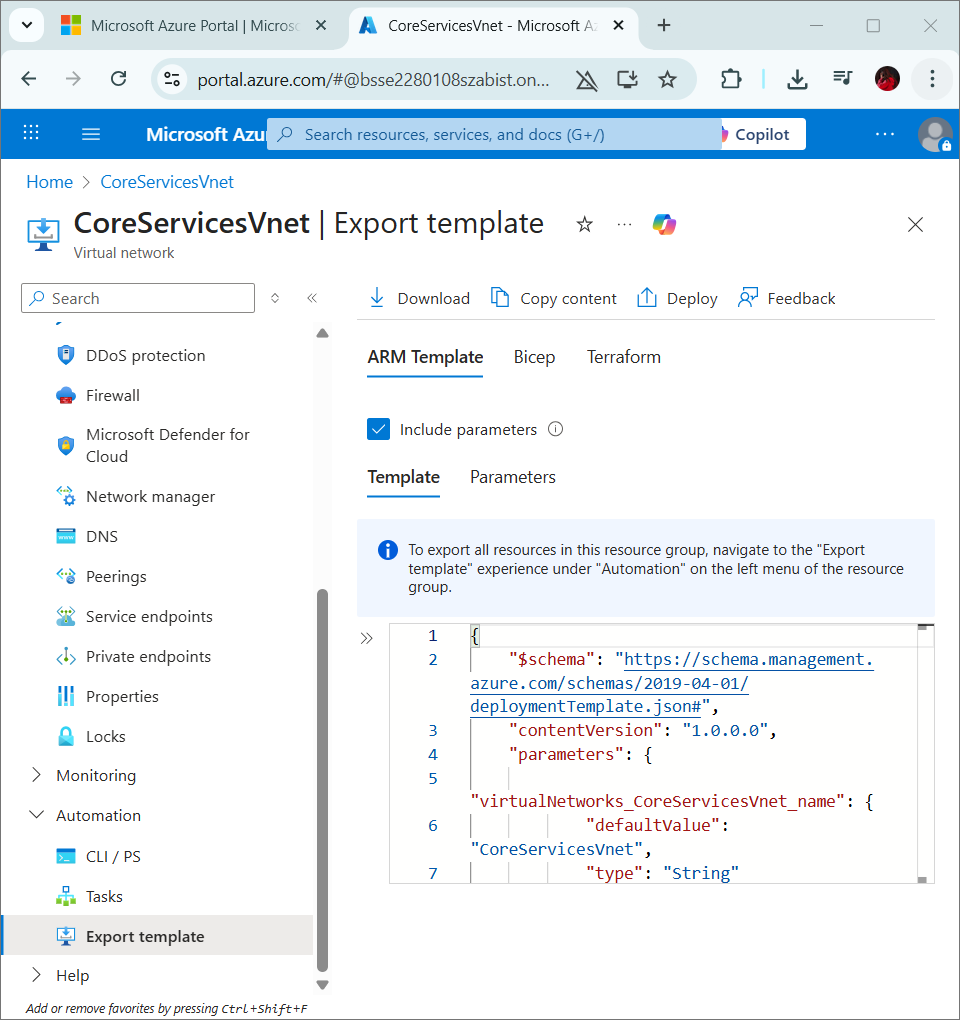






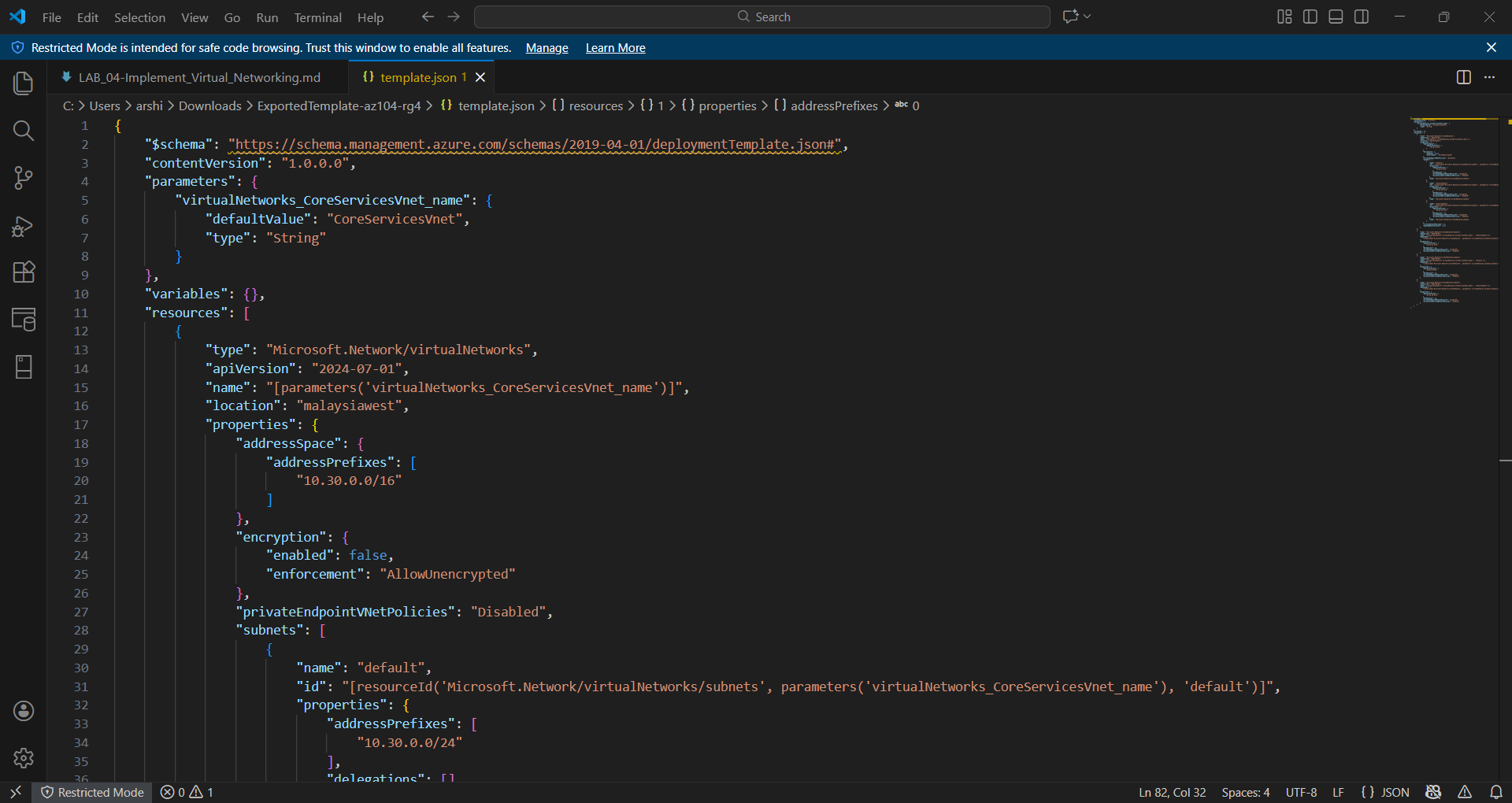


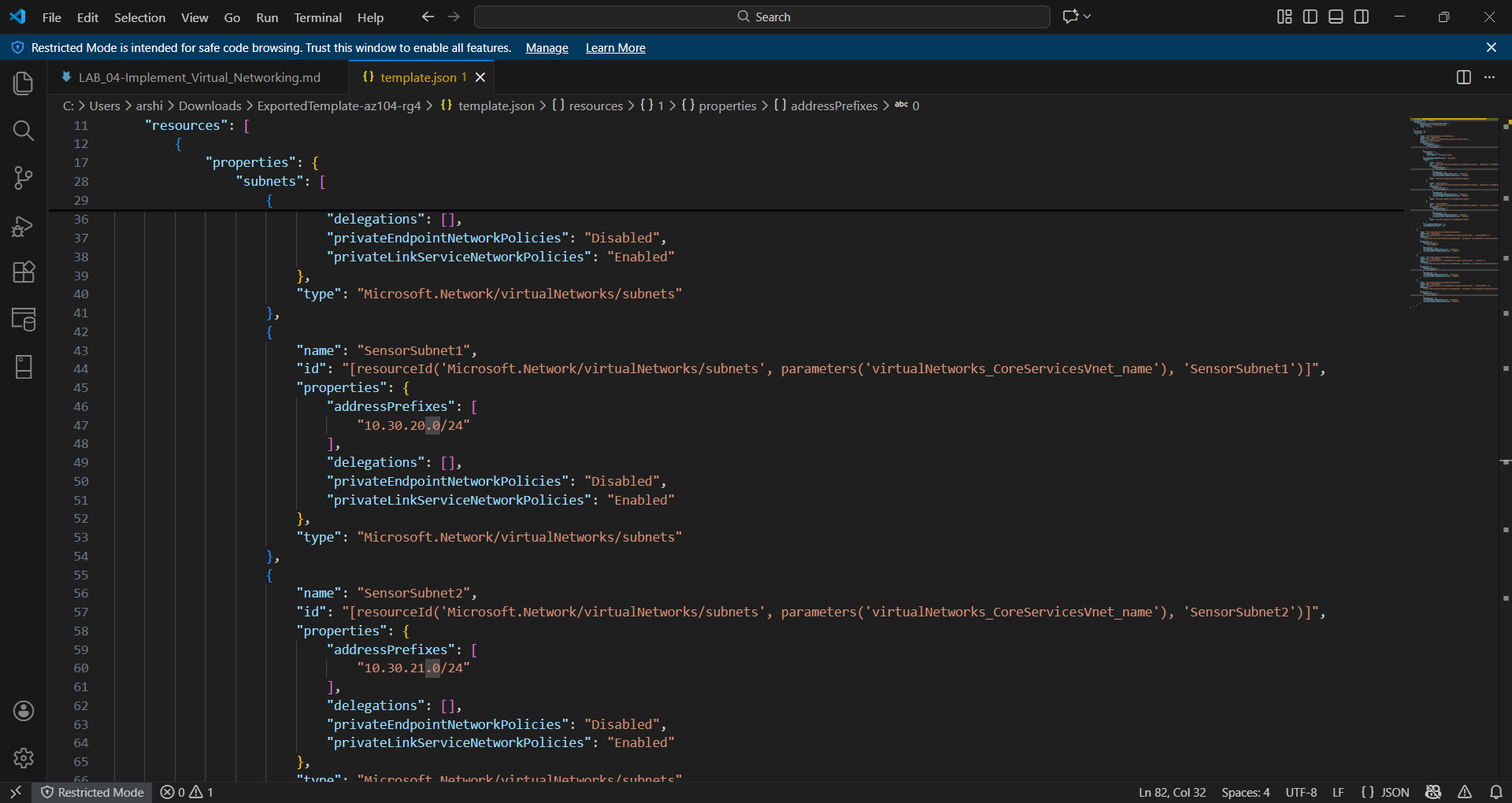
* Export ARM Template:

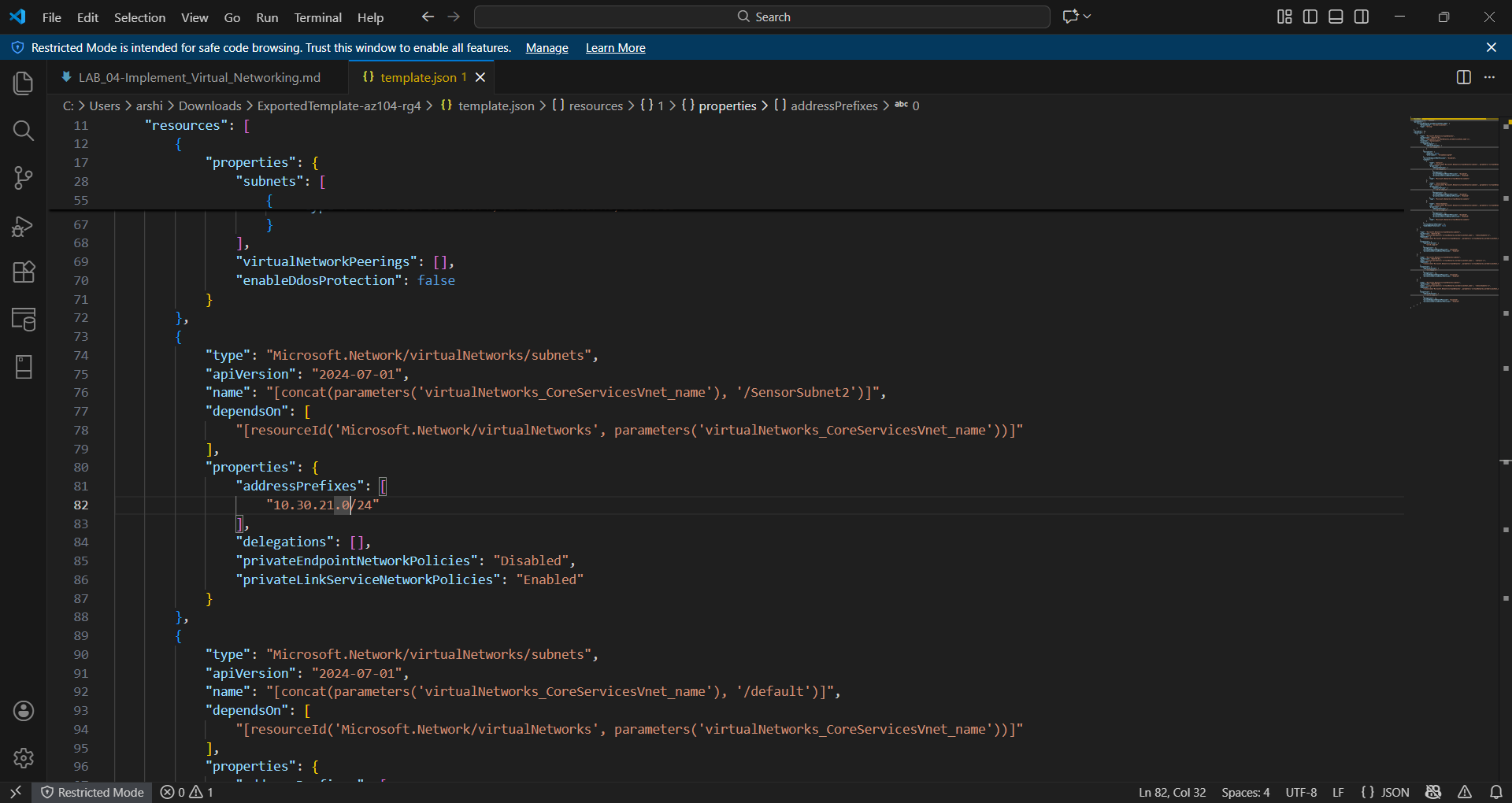


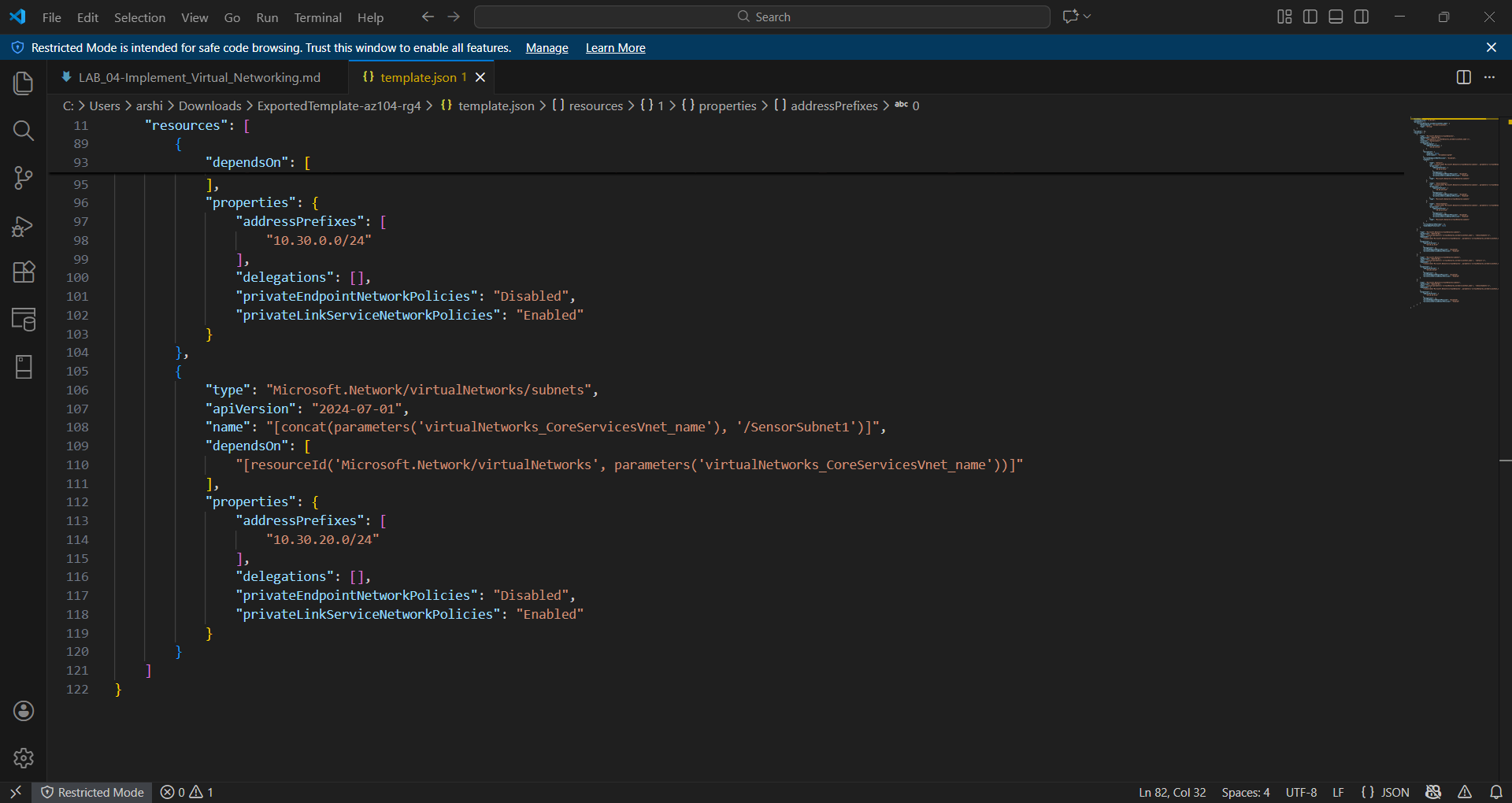
Task 2: Create a virtual network and subnets using a template.

* Edit ARM Template for ManufacturingVnet & Modify Address Space and Subnets:

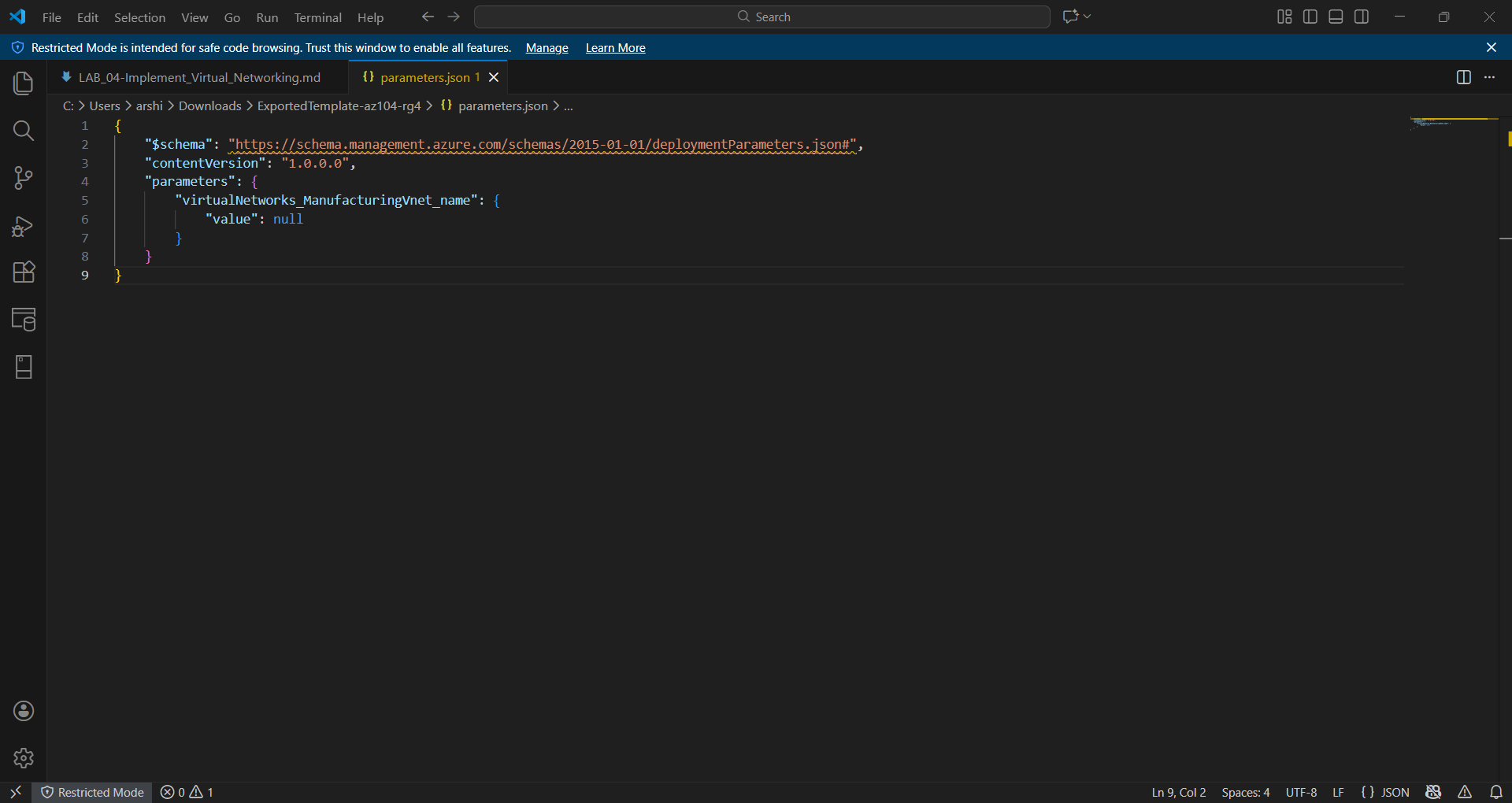


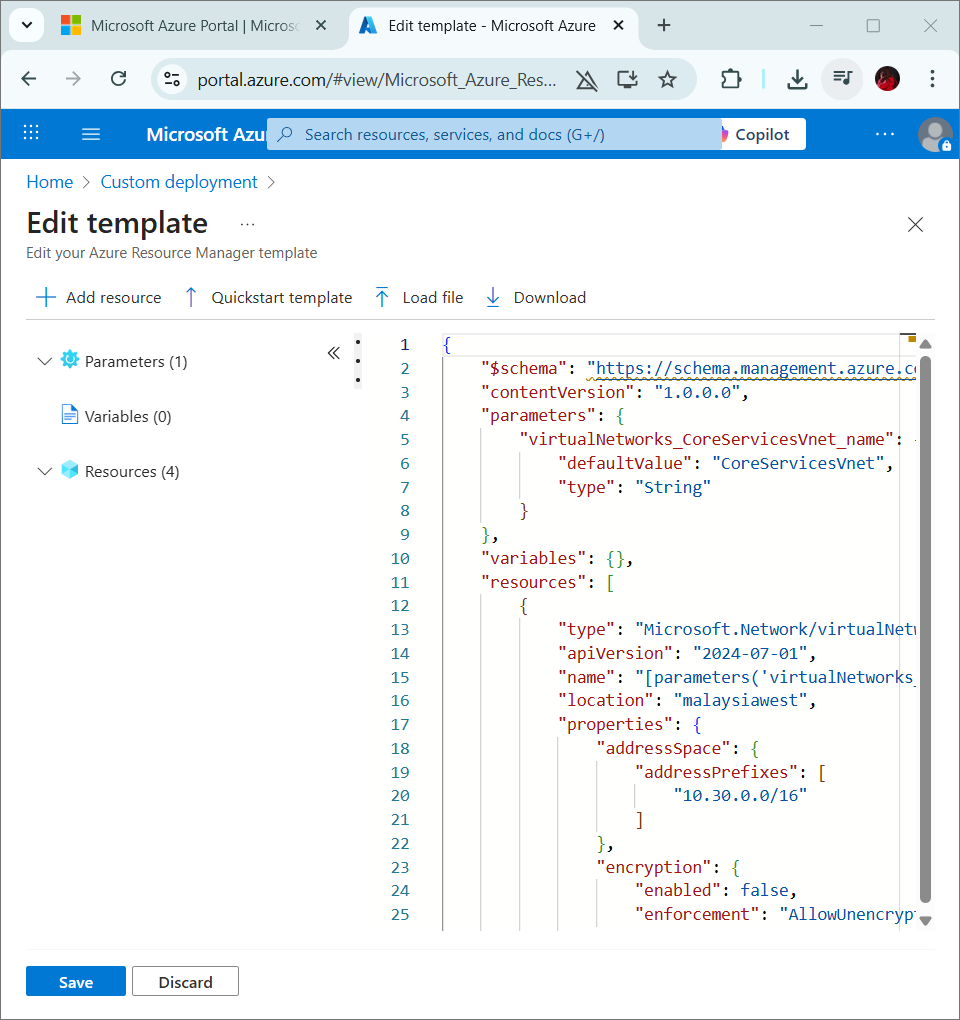




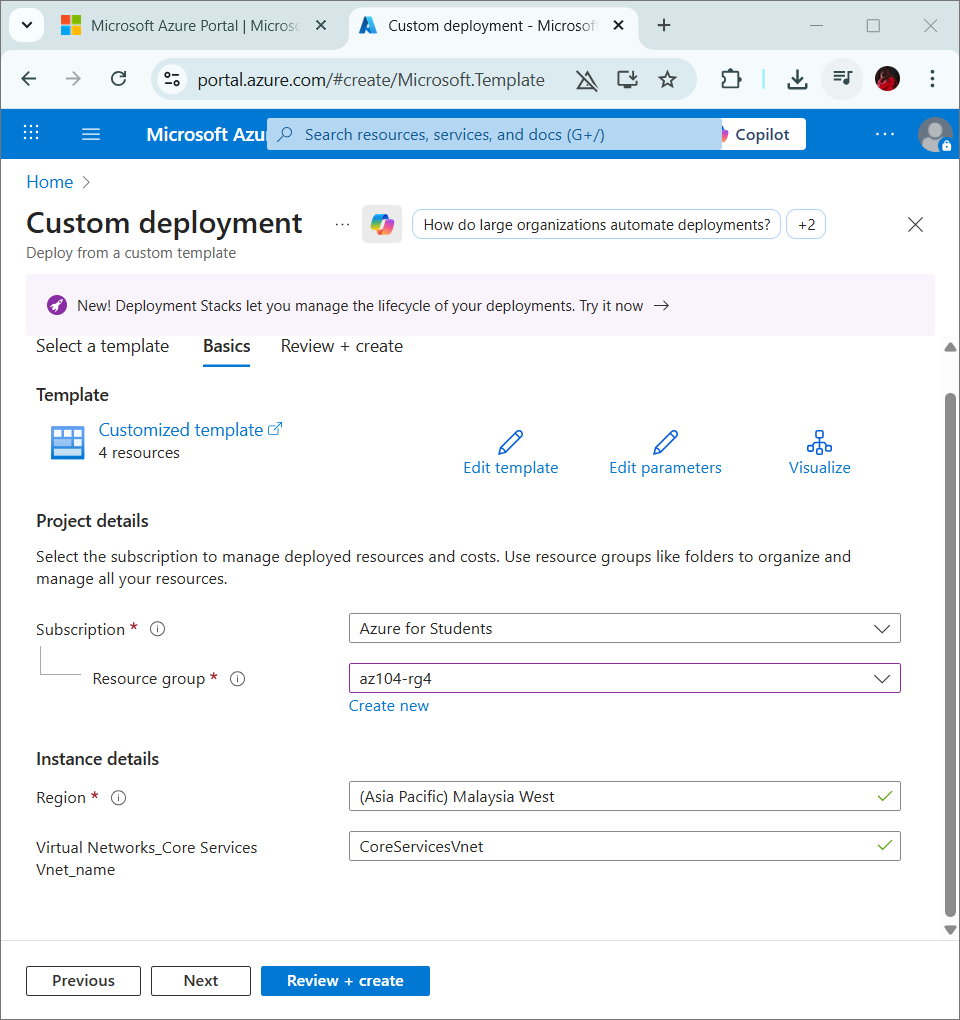


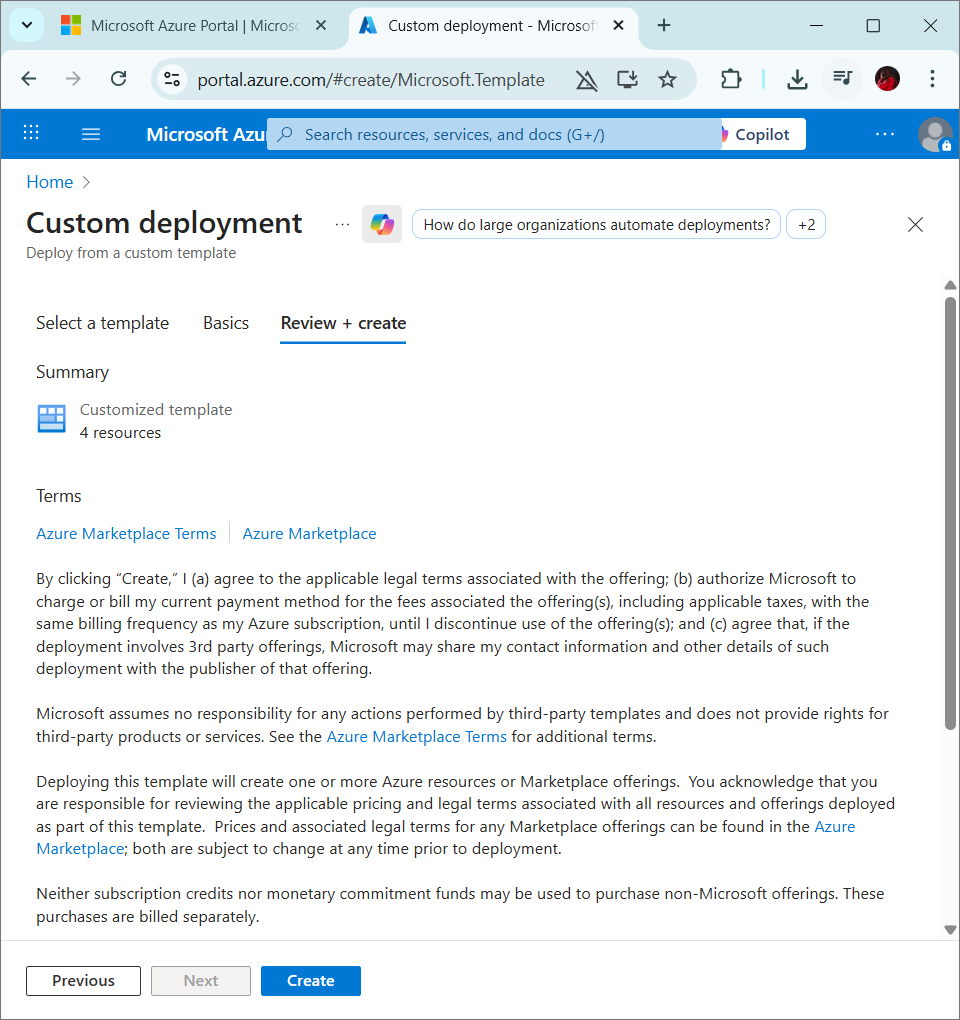
* Update Parameters File:

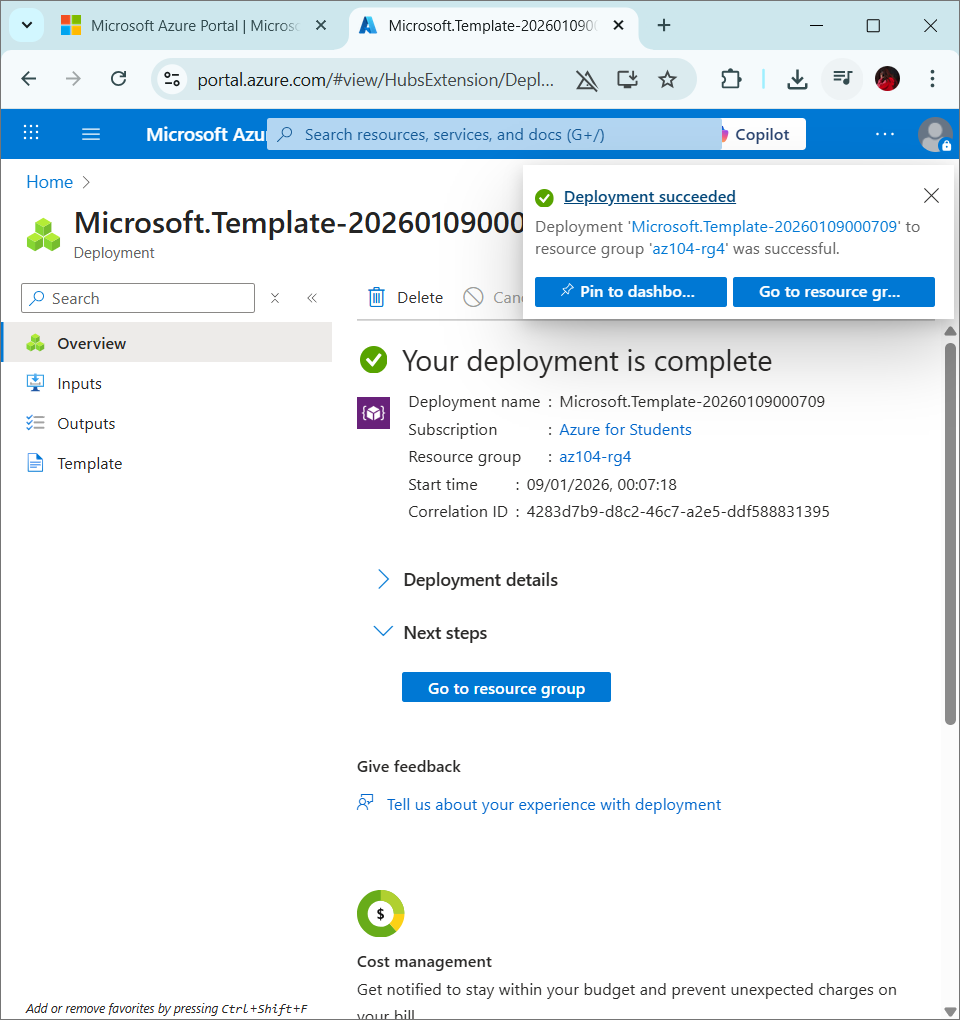




* Deploy Custom ARM Template:

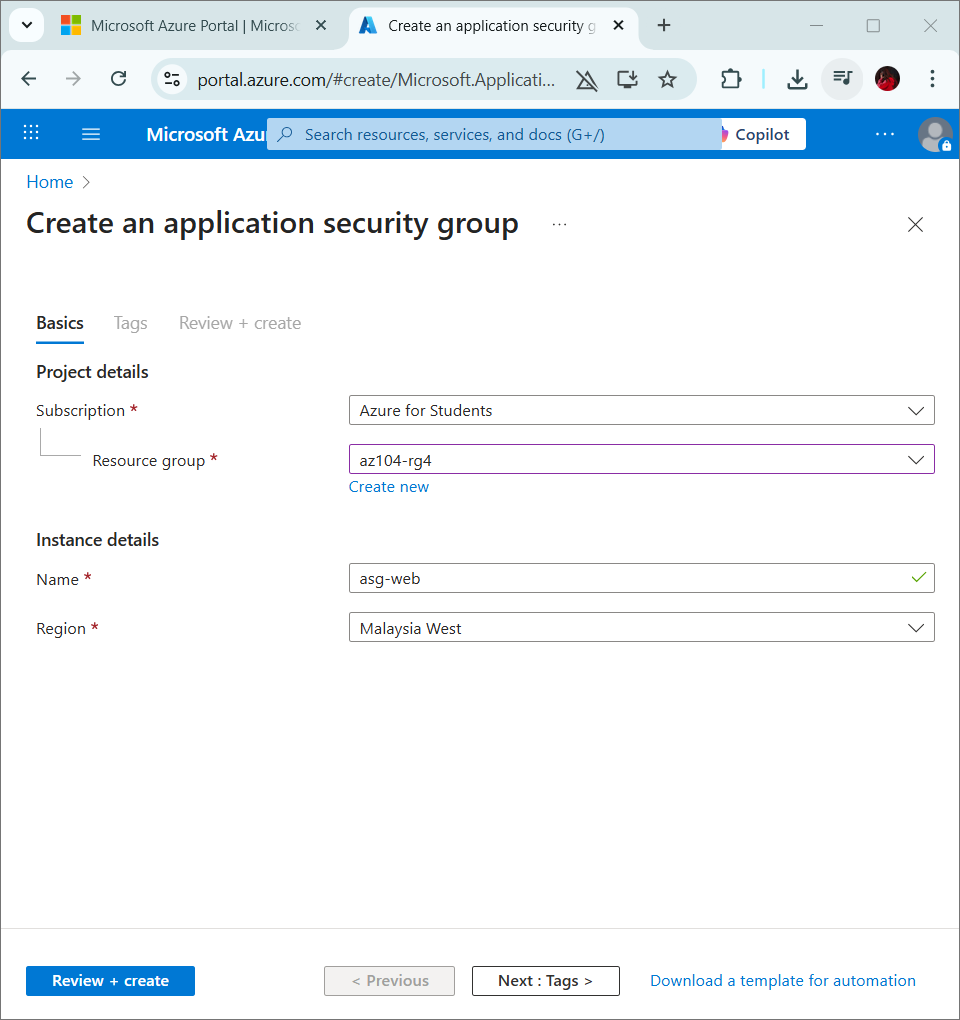


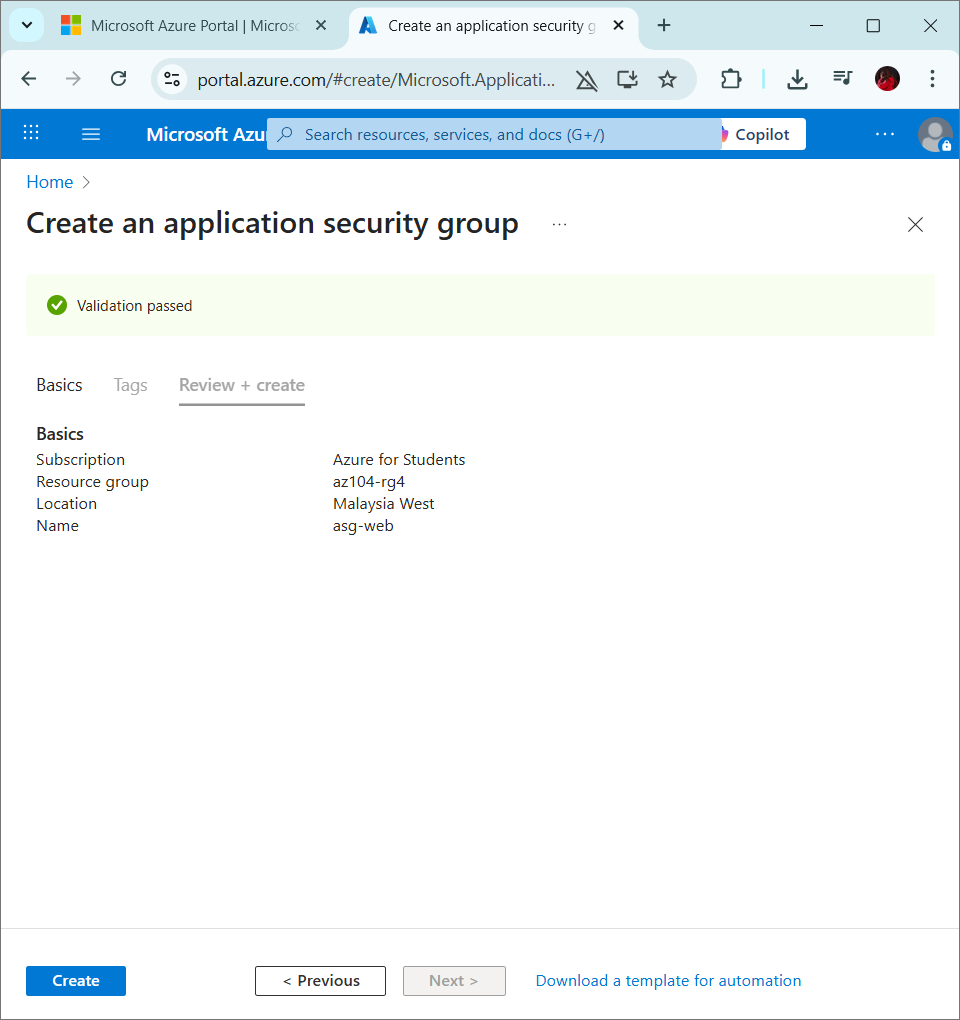


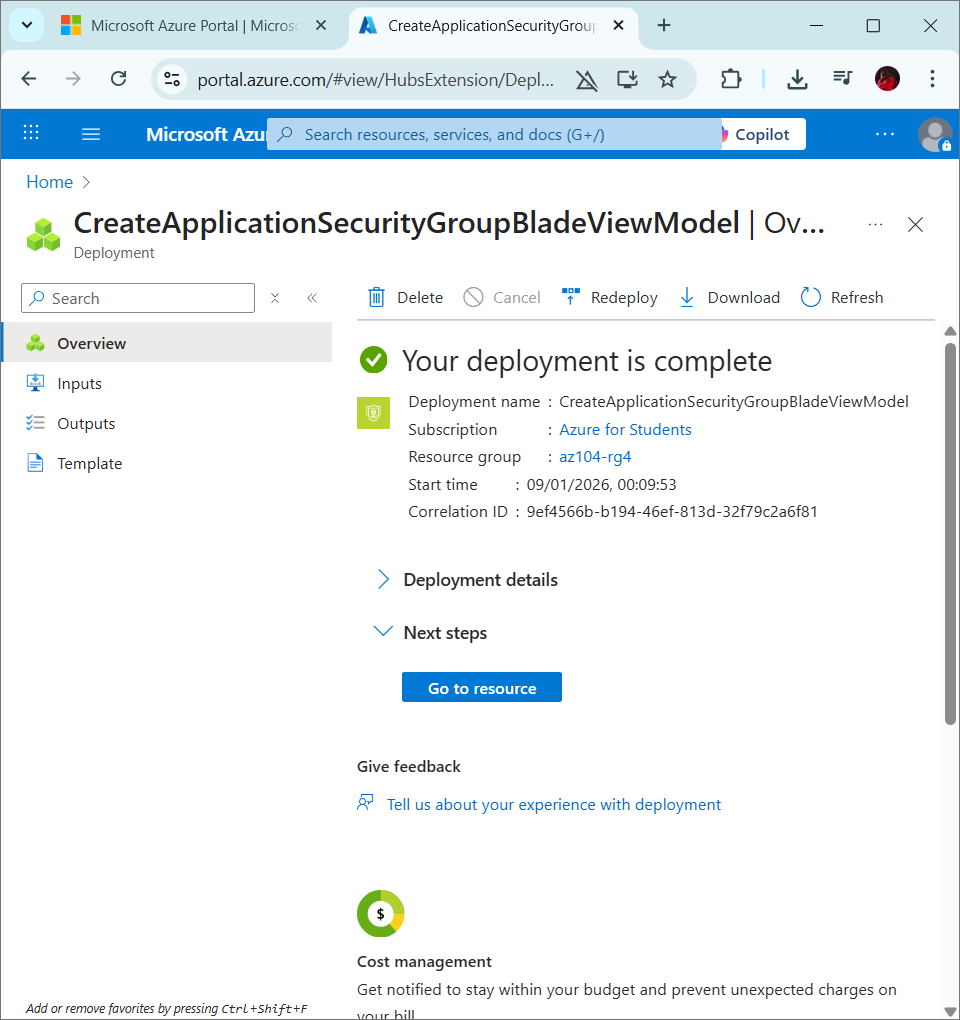


Task 3: Create and configure communication between an Application Security Group and a Network Security Group.

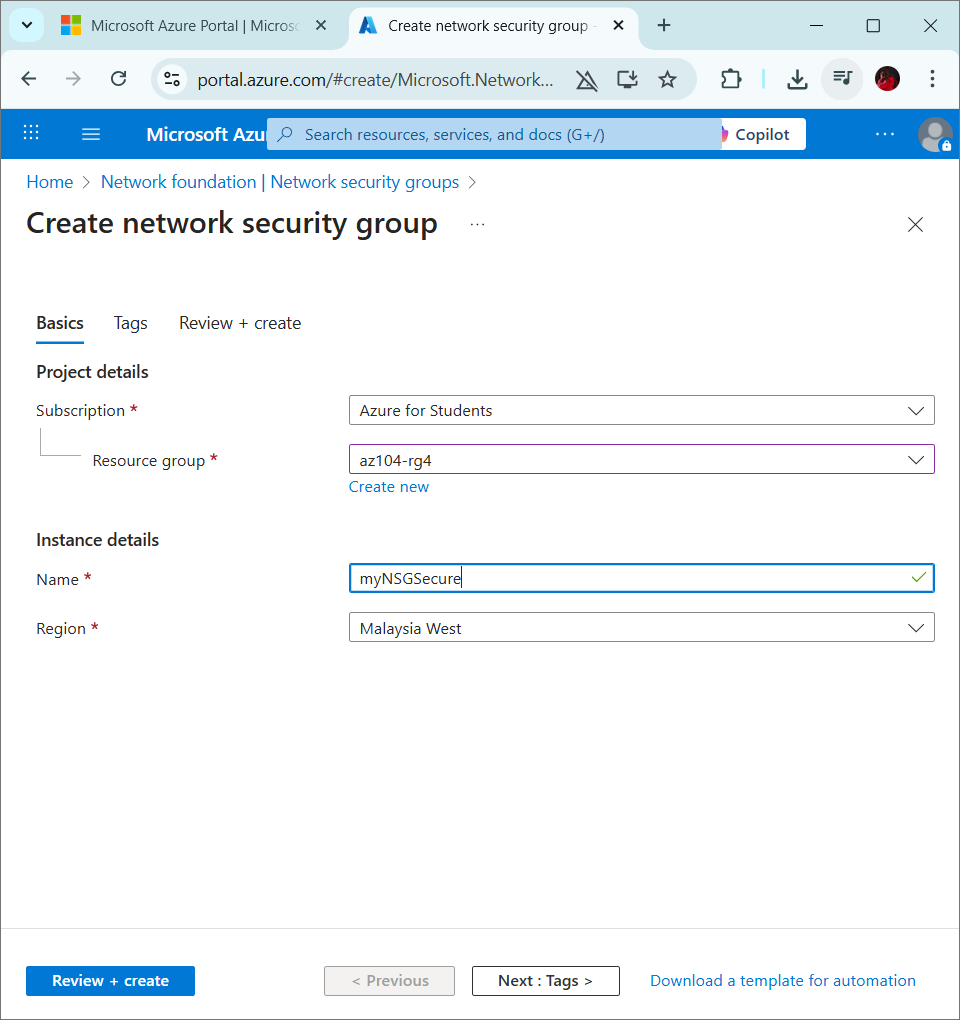
* Create Application Security Group (ASG):

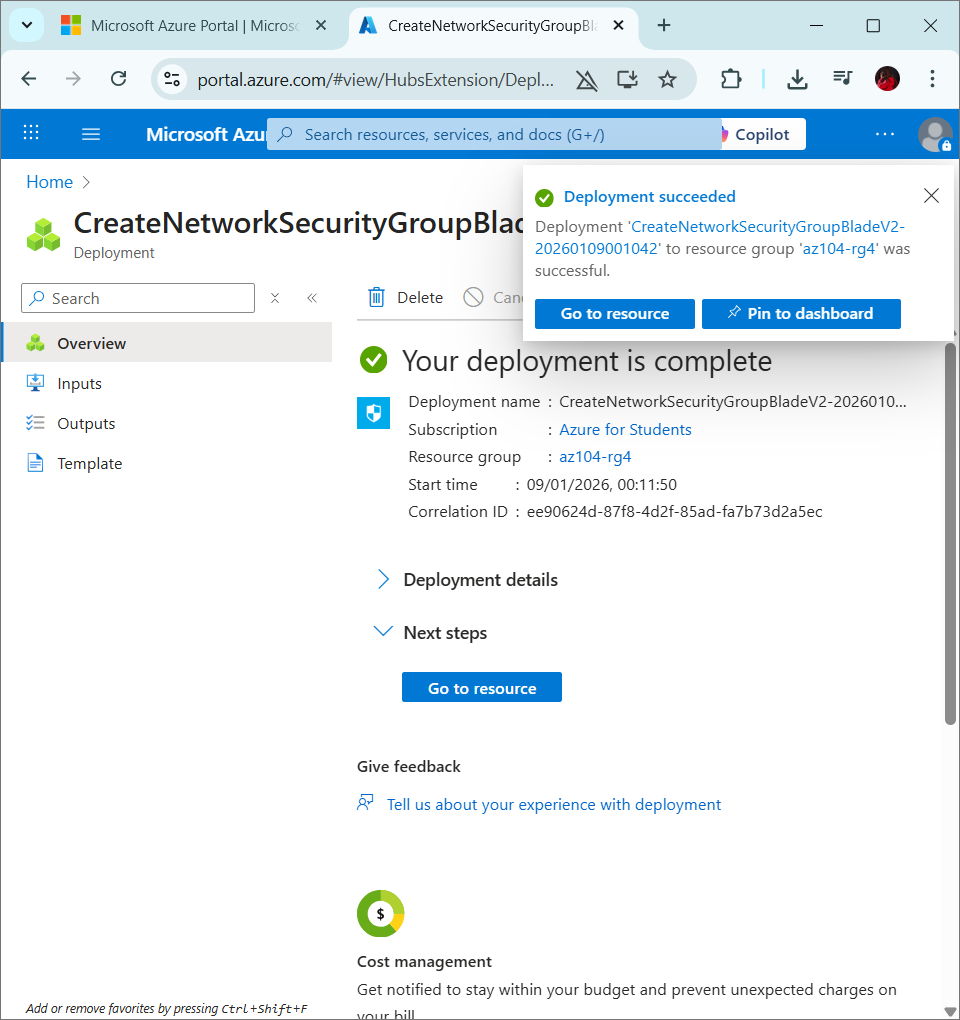




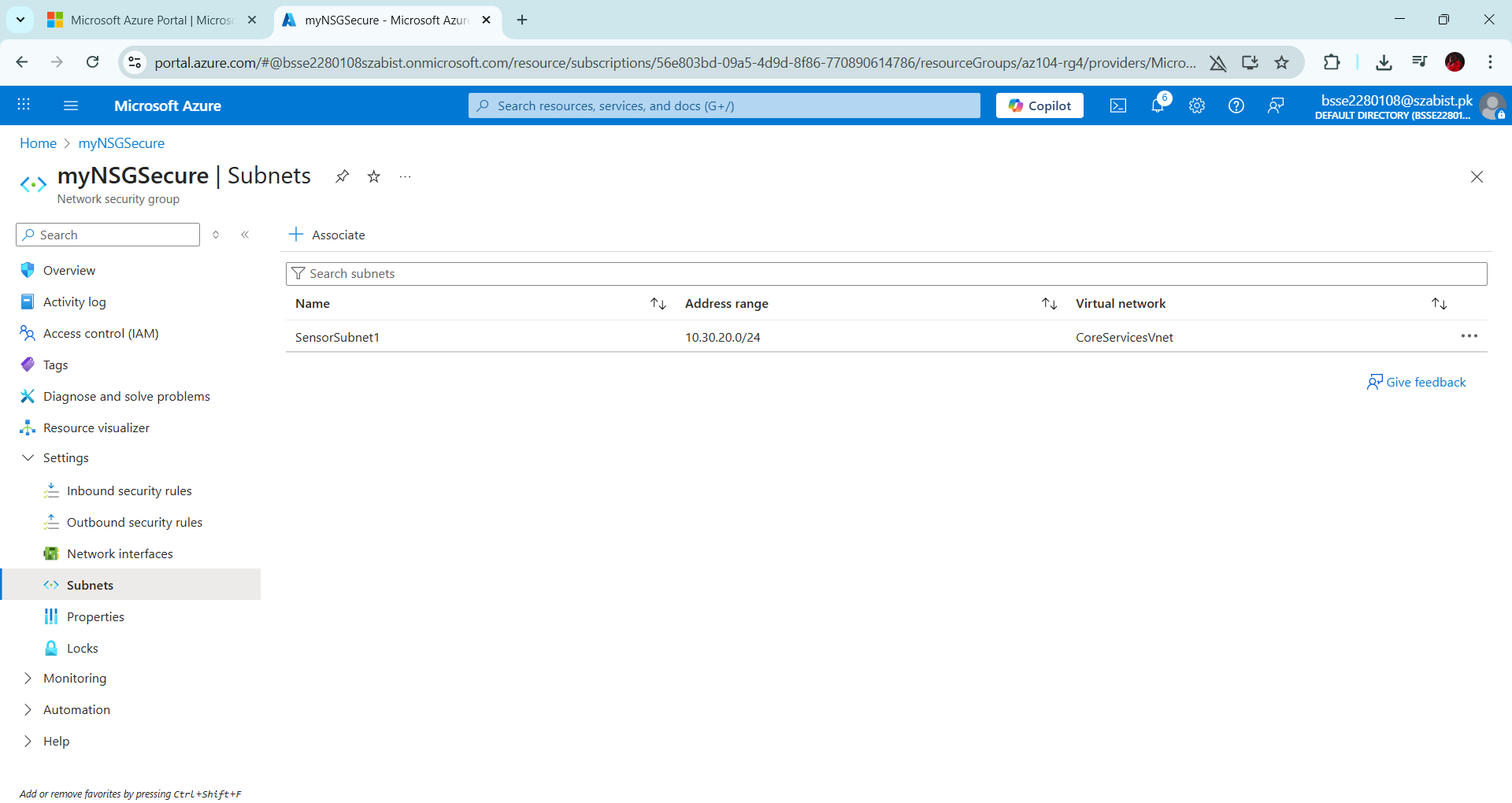


* Create Network Security Group (NSG):

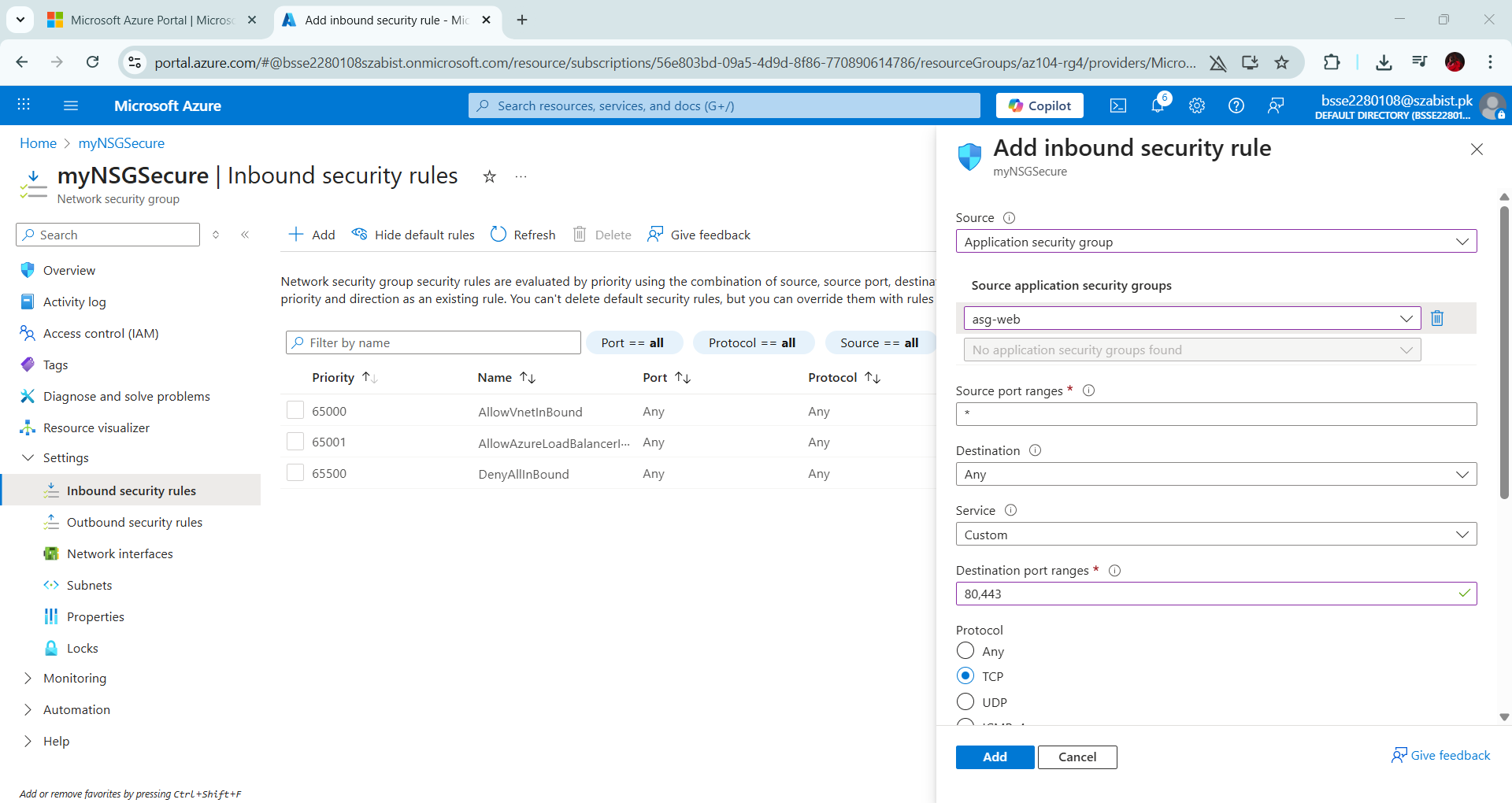


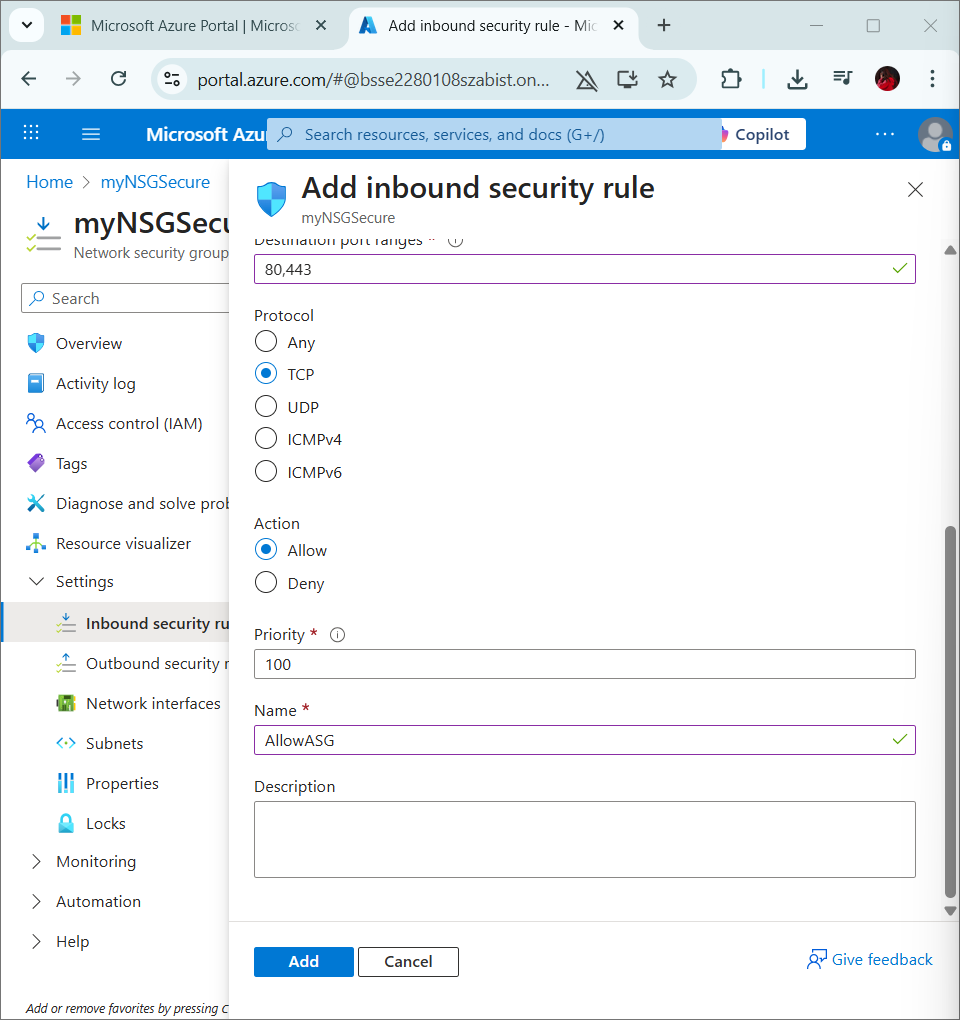


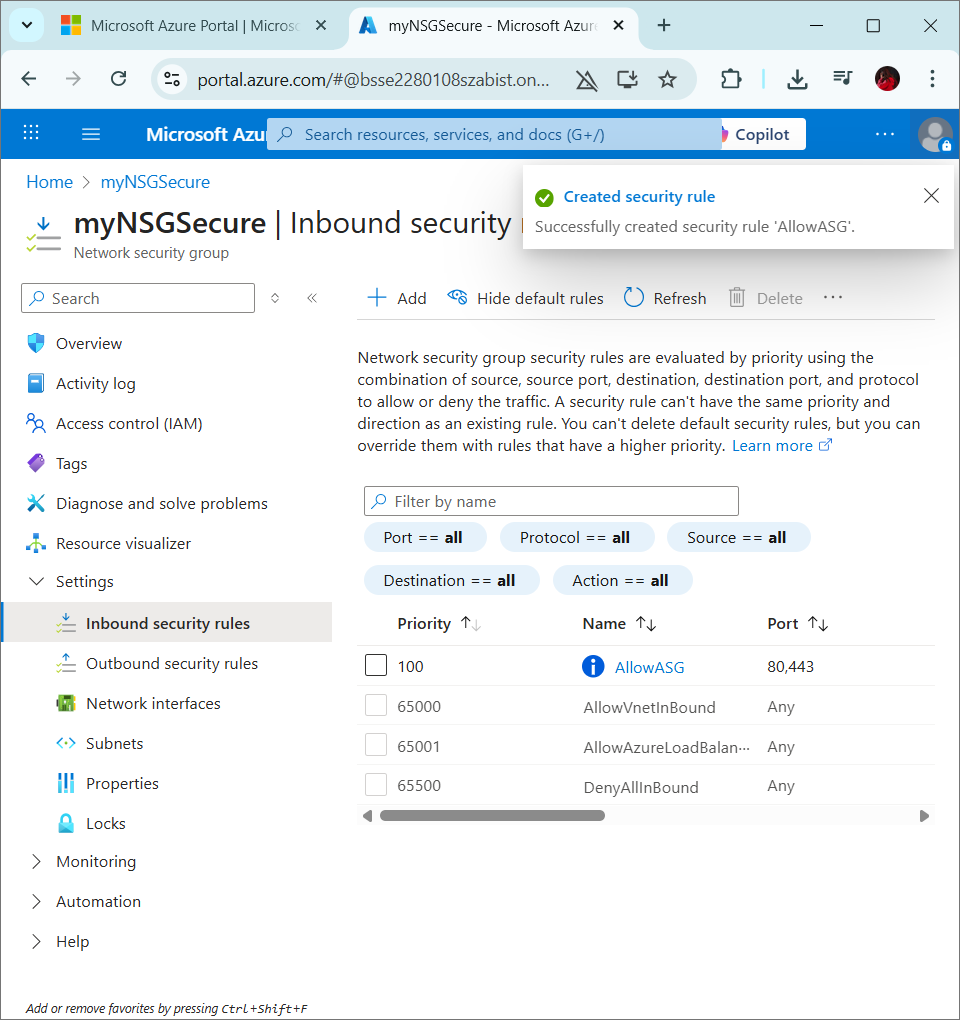
* Associate NSG with Subnet:



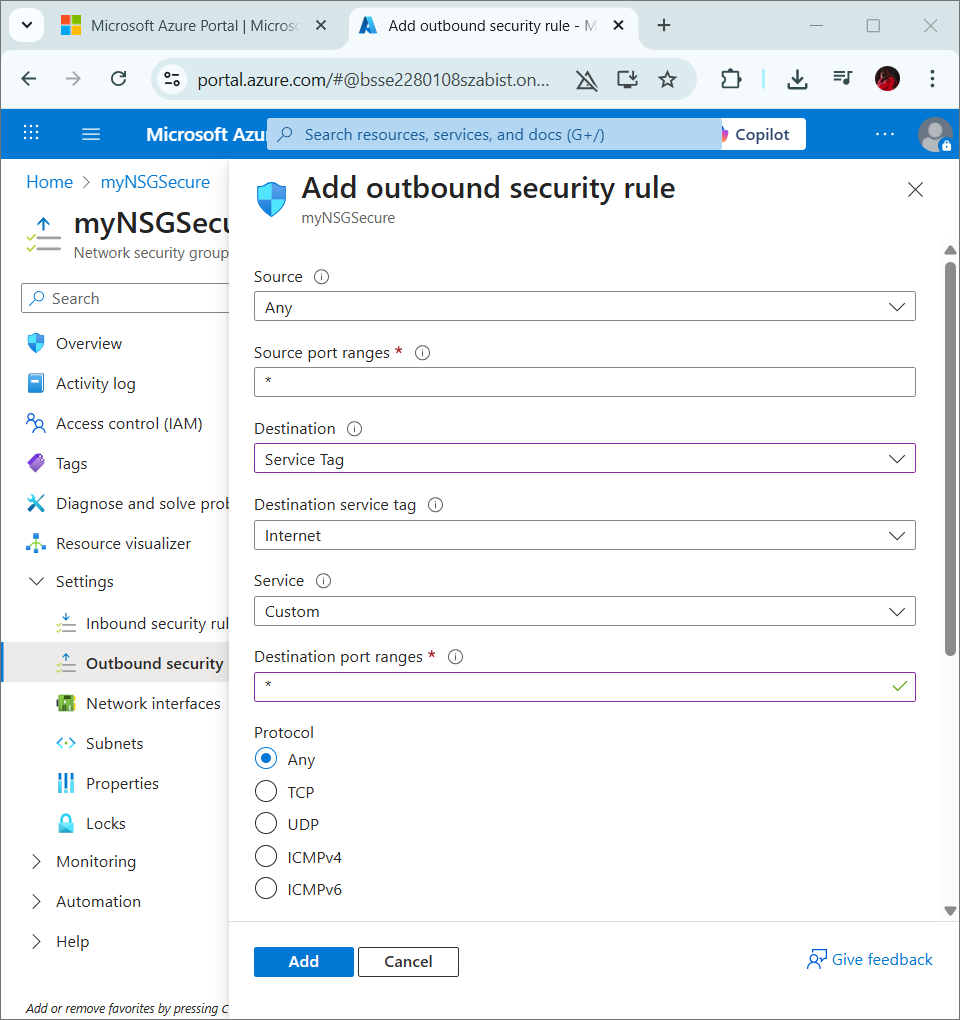
* Configure Inbound Rule to Allow ASG Traffic:

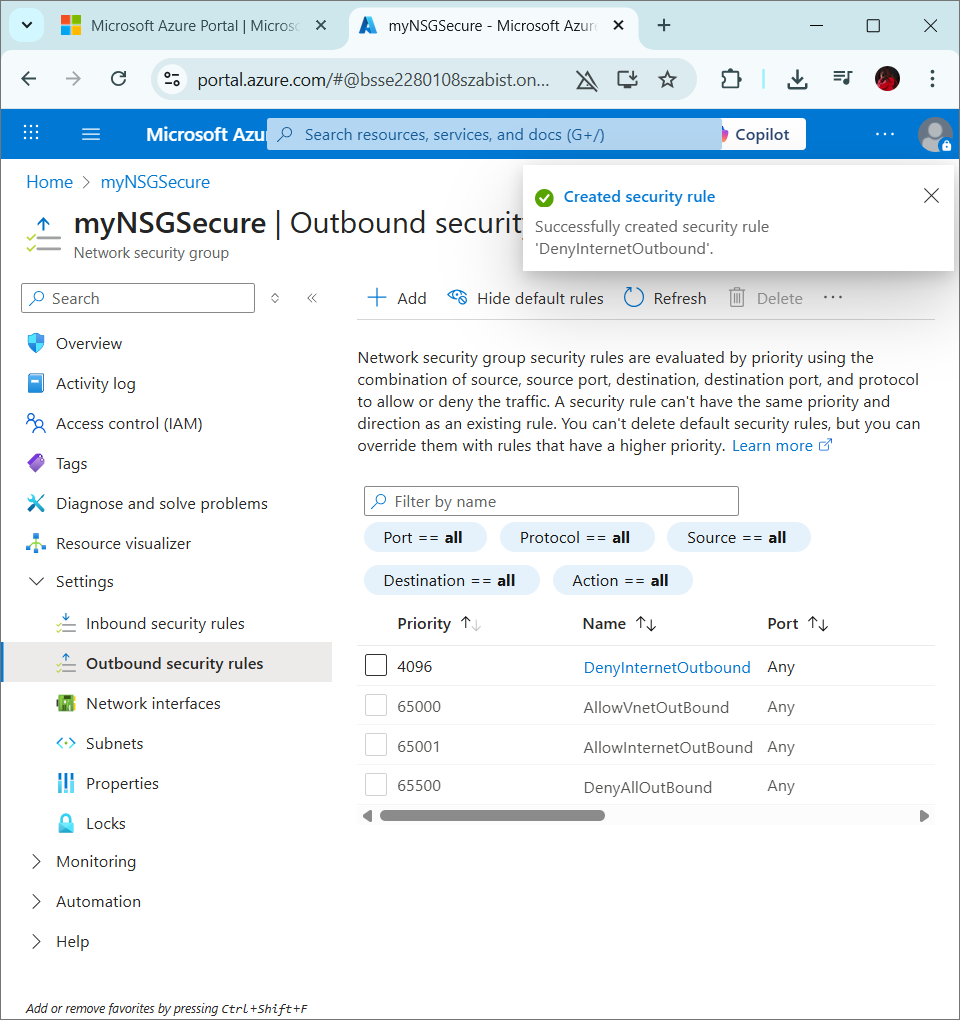
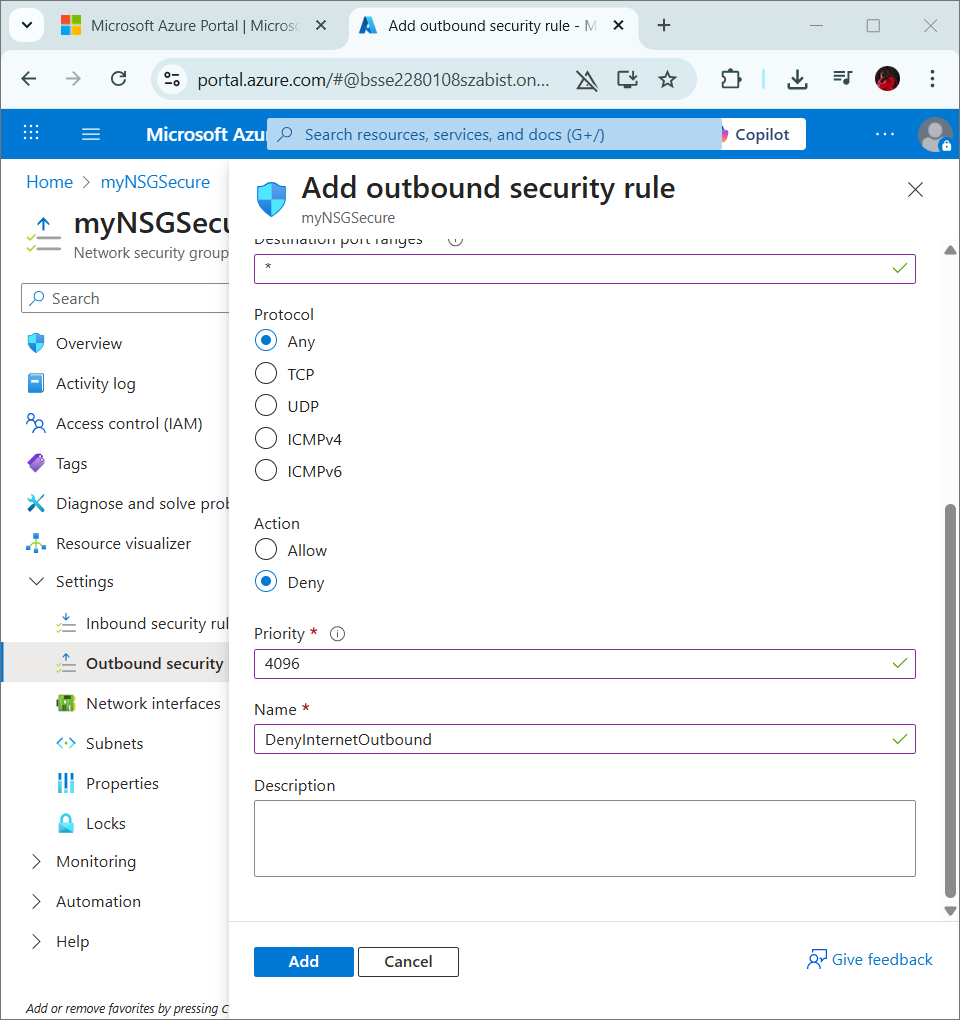






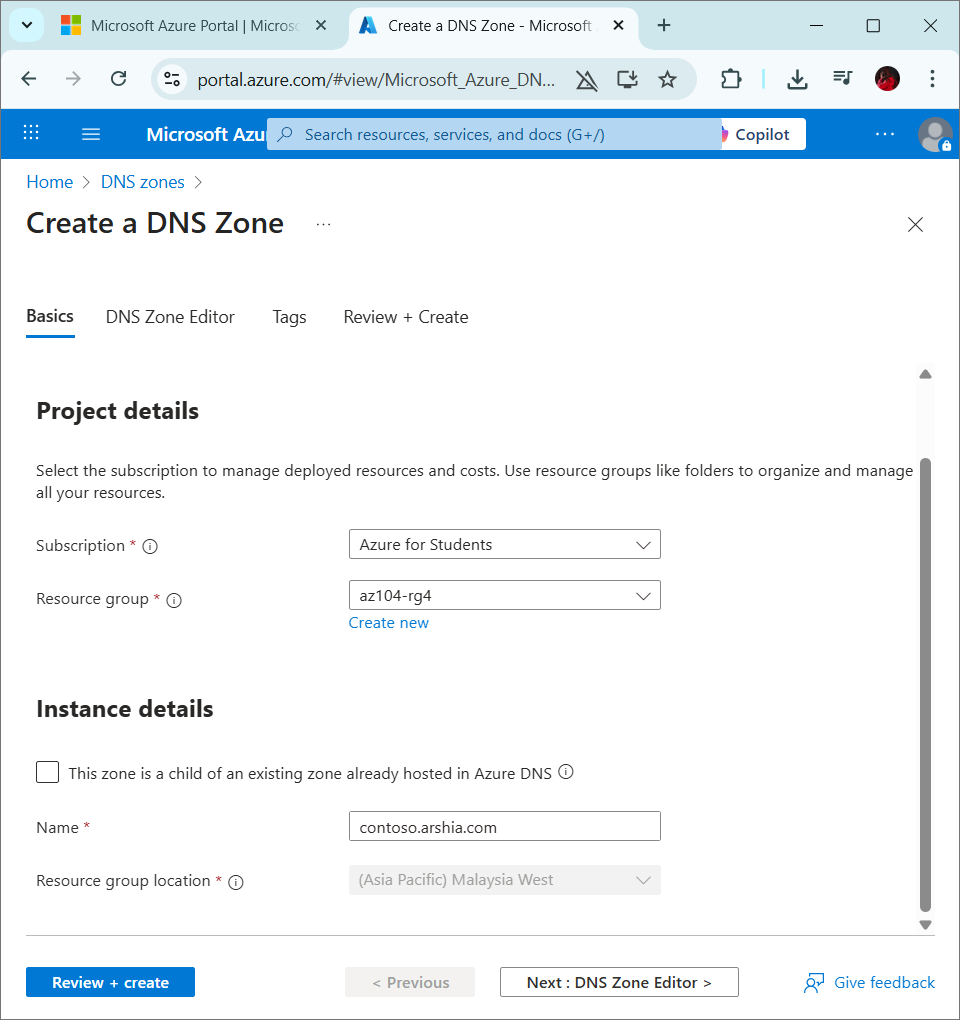
* Configure Outbound Rule to Deny Internet Access:

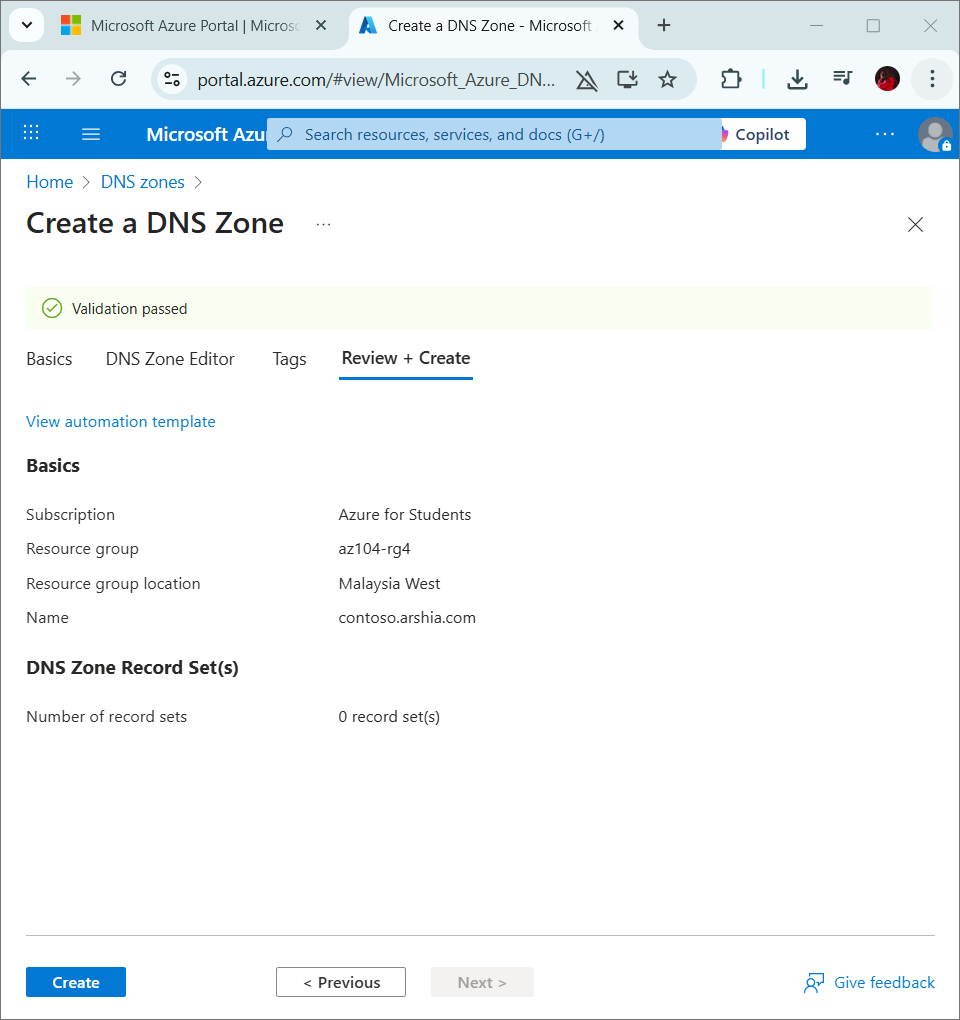


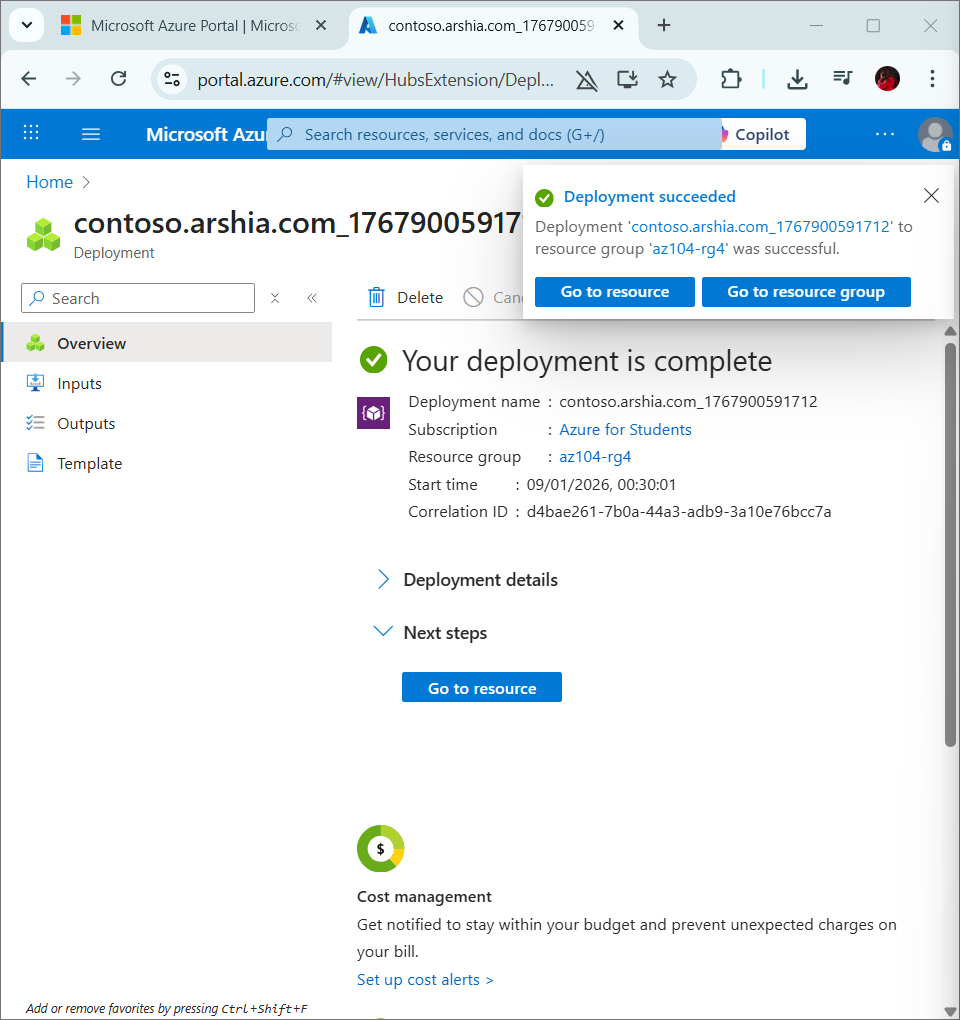


Task 4: Configure public and private Azure DNS zones. Public DNS Zone

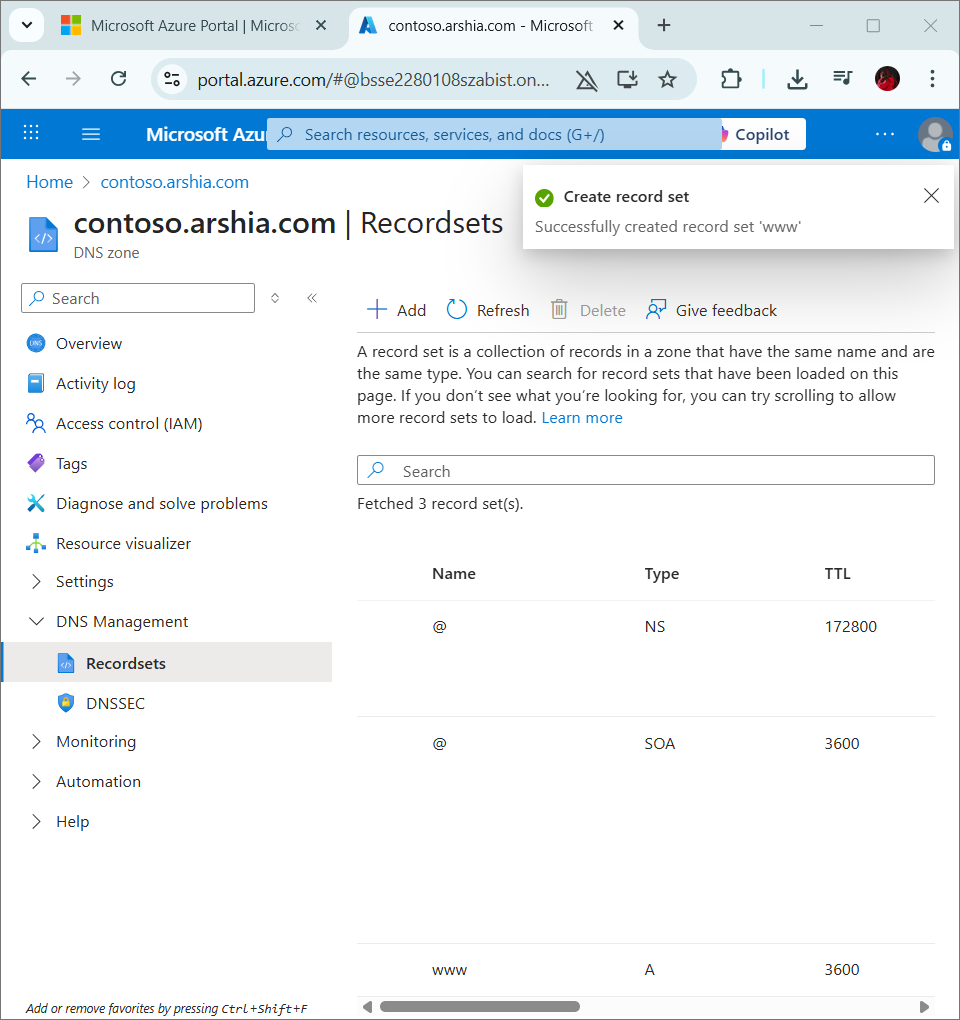
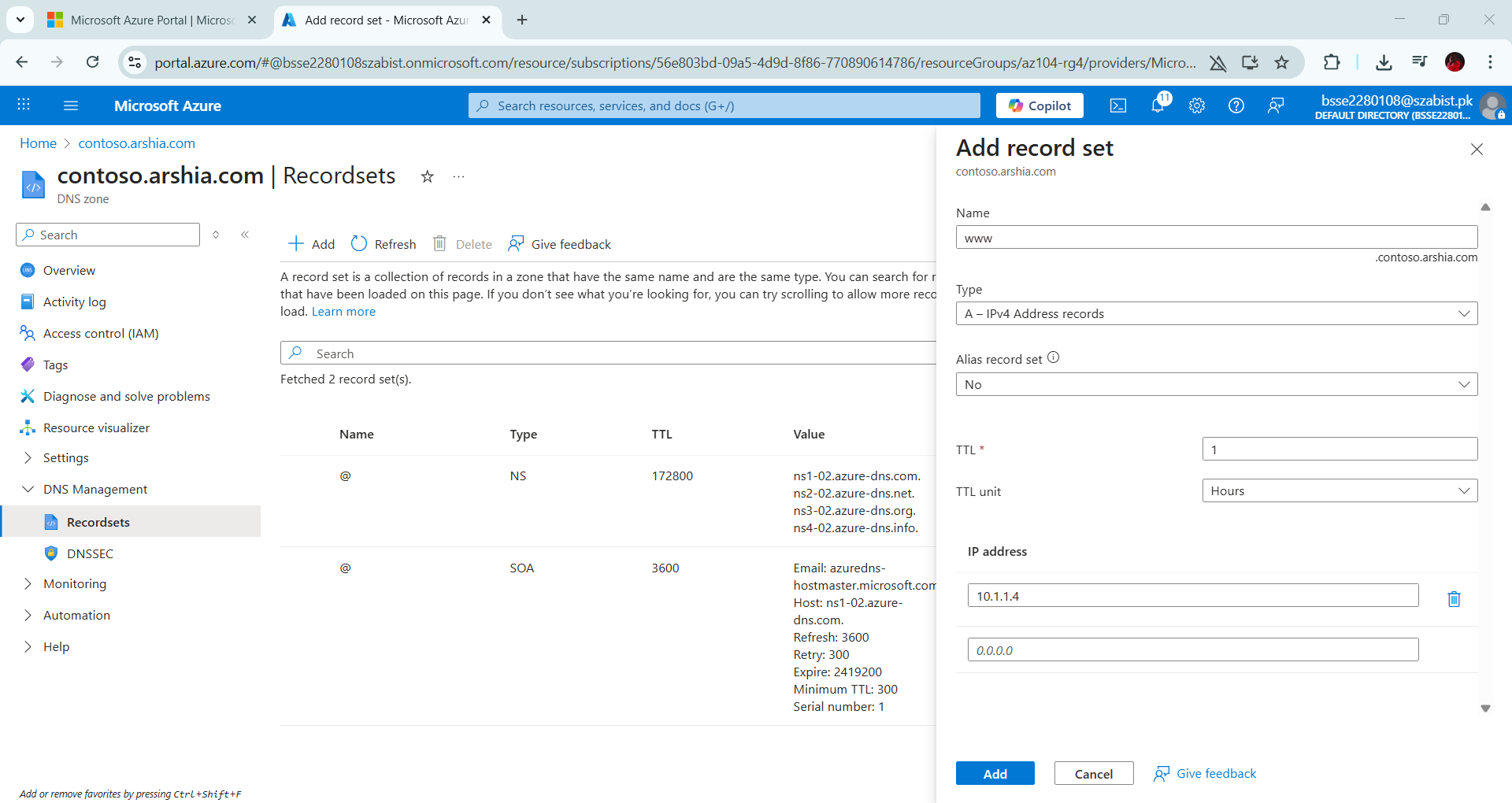
* Create Public DNS Zone:

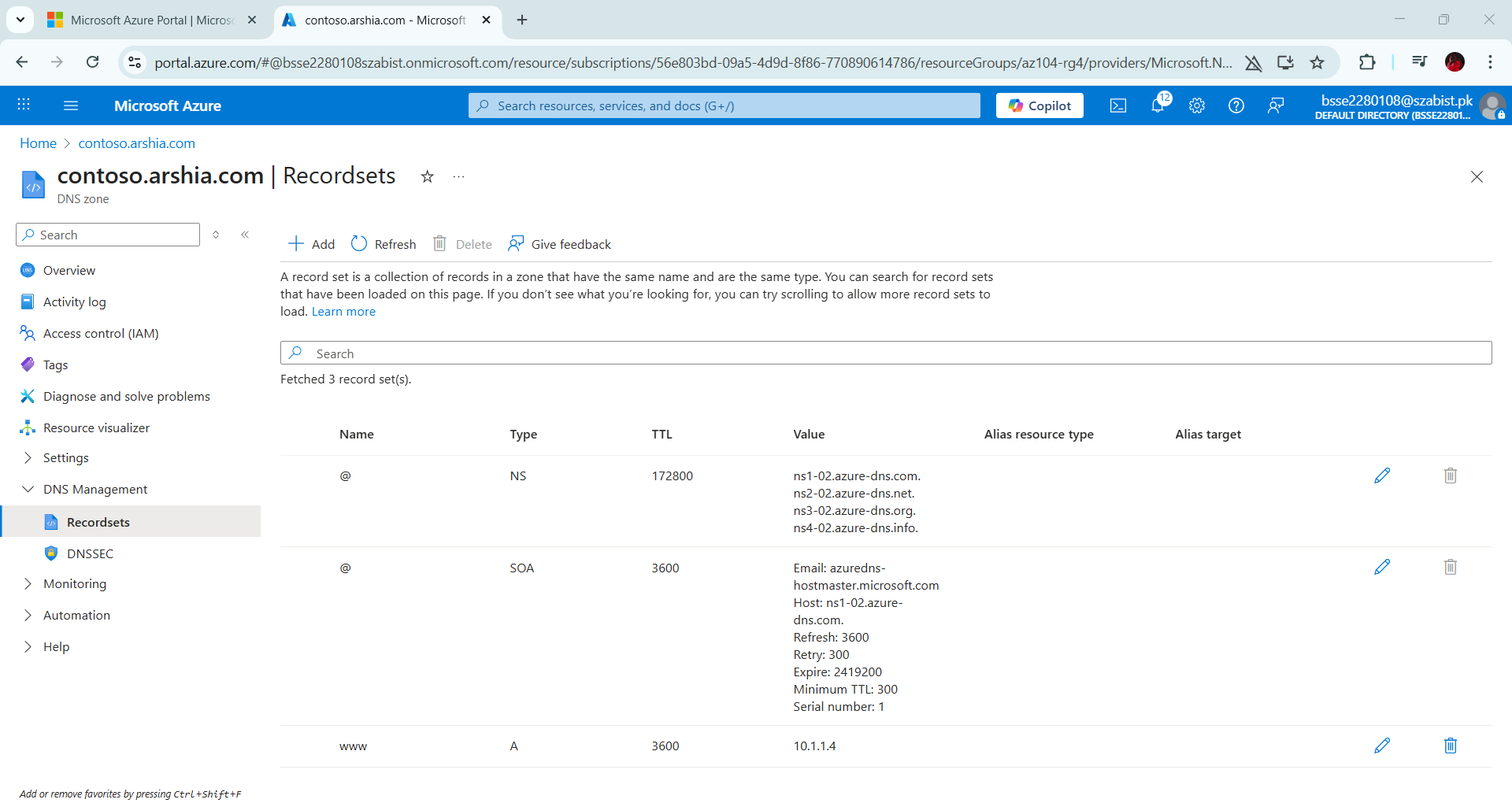




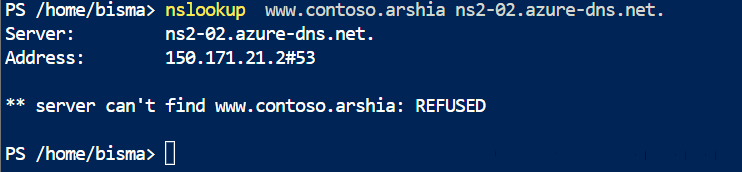


* Add A Record (www):



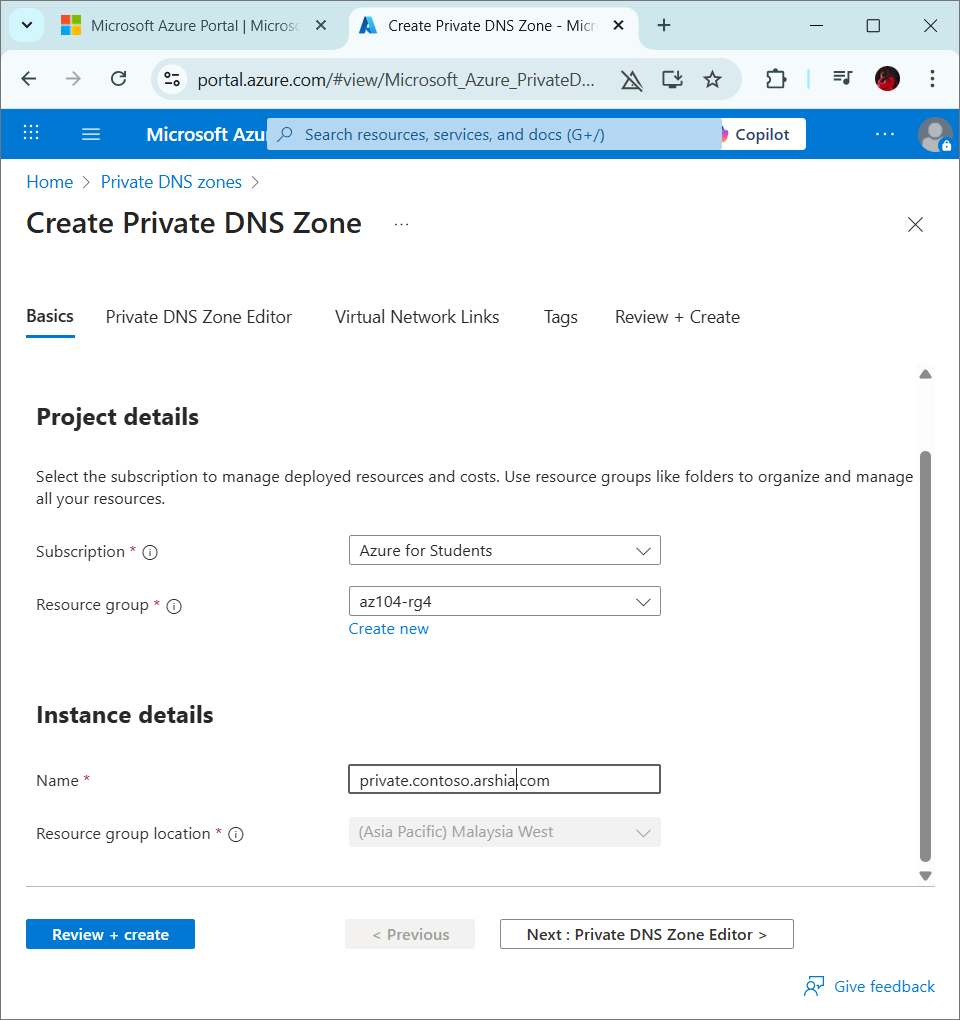


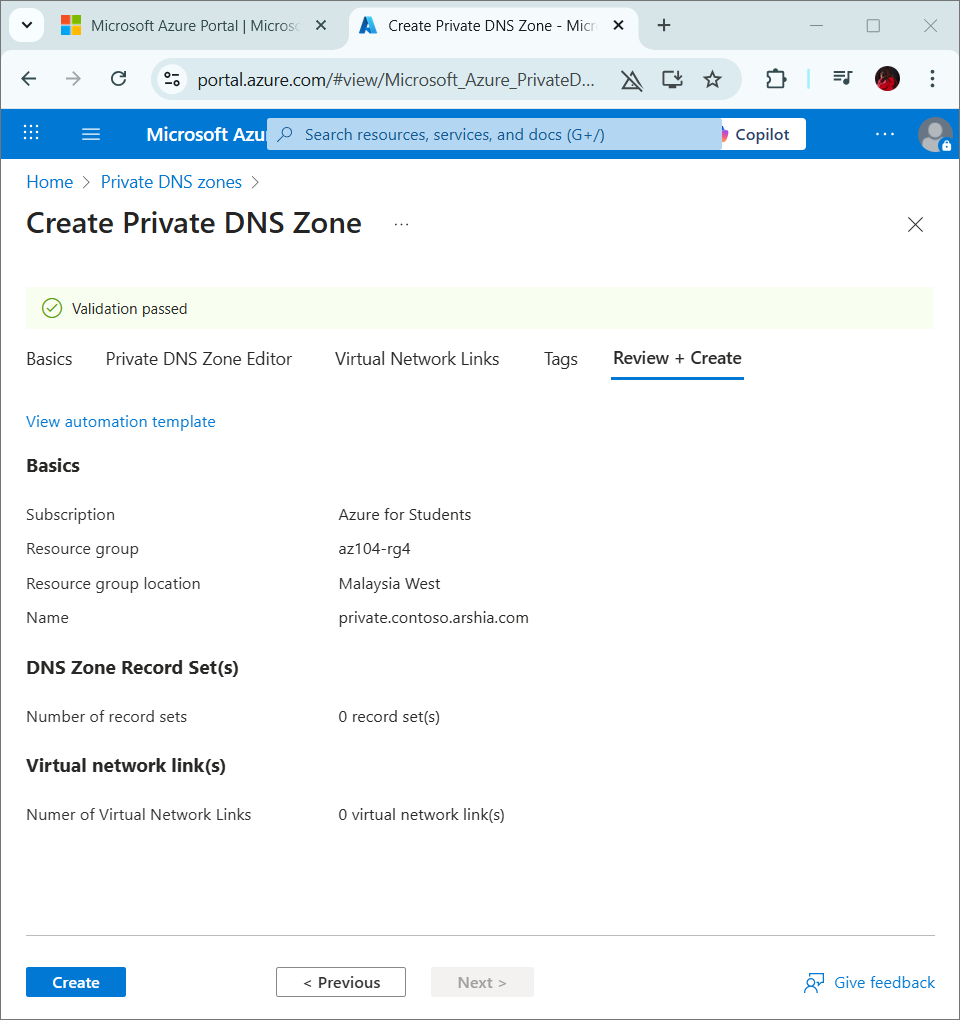
* Verify DNS Resolution Using nslookup:



Private DNS Zone

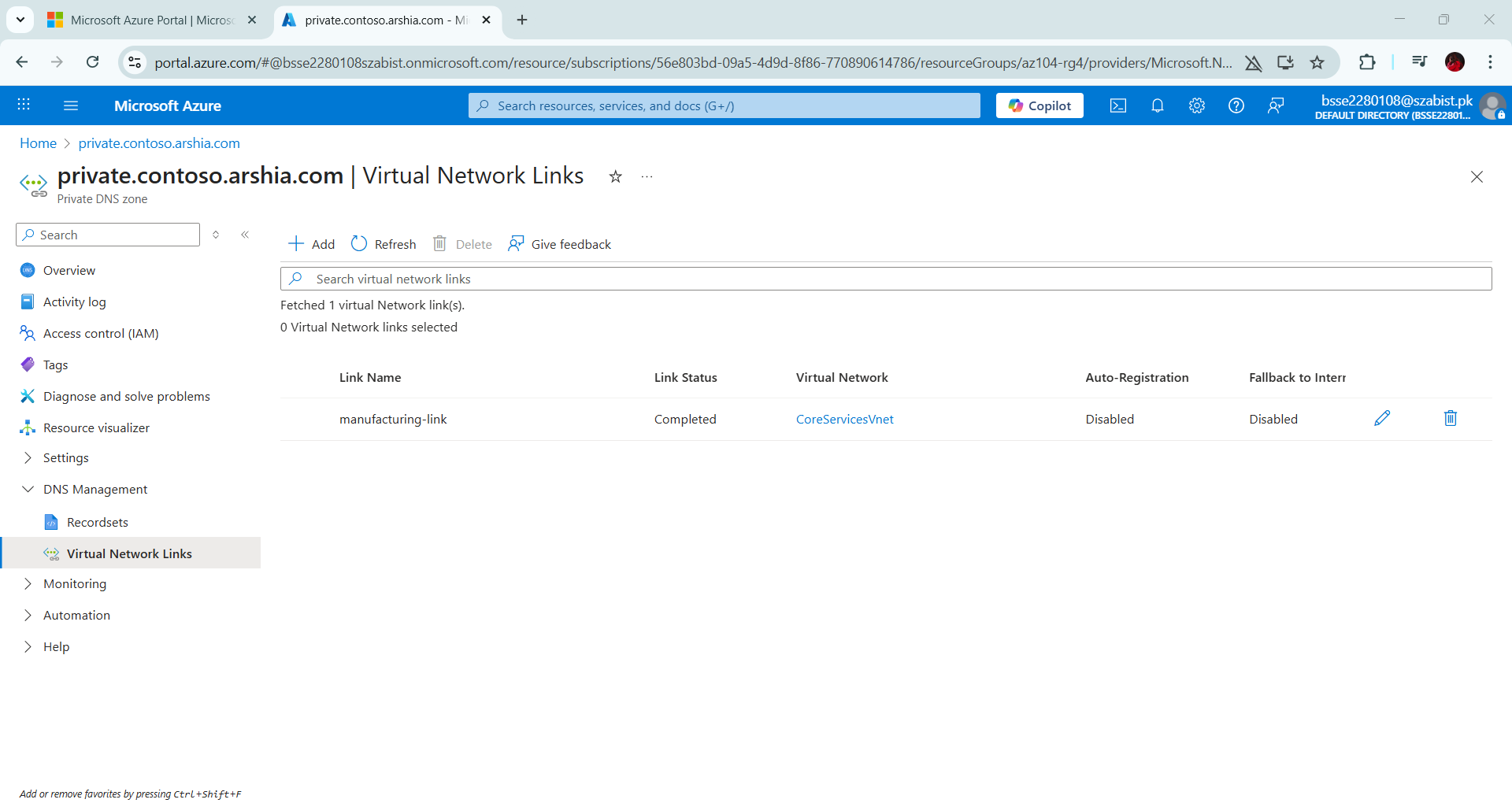
* Create Private DNS Zone:







* Link Private DNS Zone to Virtual Network:



* Add Private DNS A Record:

