REPORT ON

MICROSOFT AZURE FUNDAMENTALS

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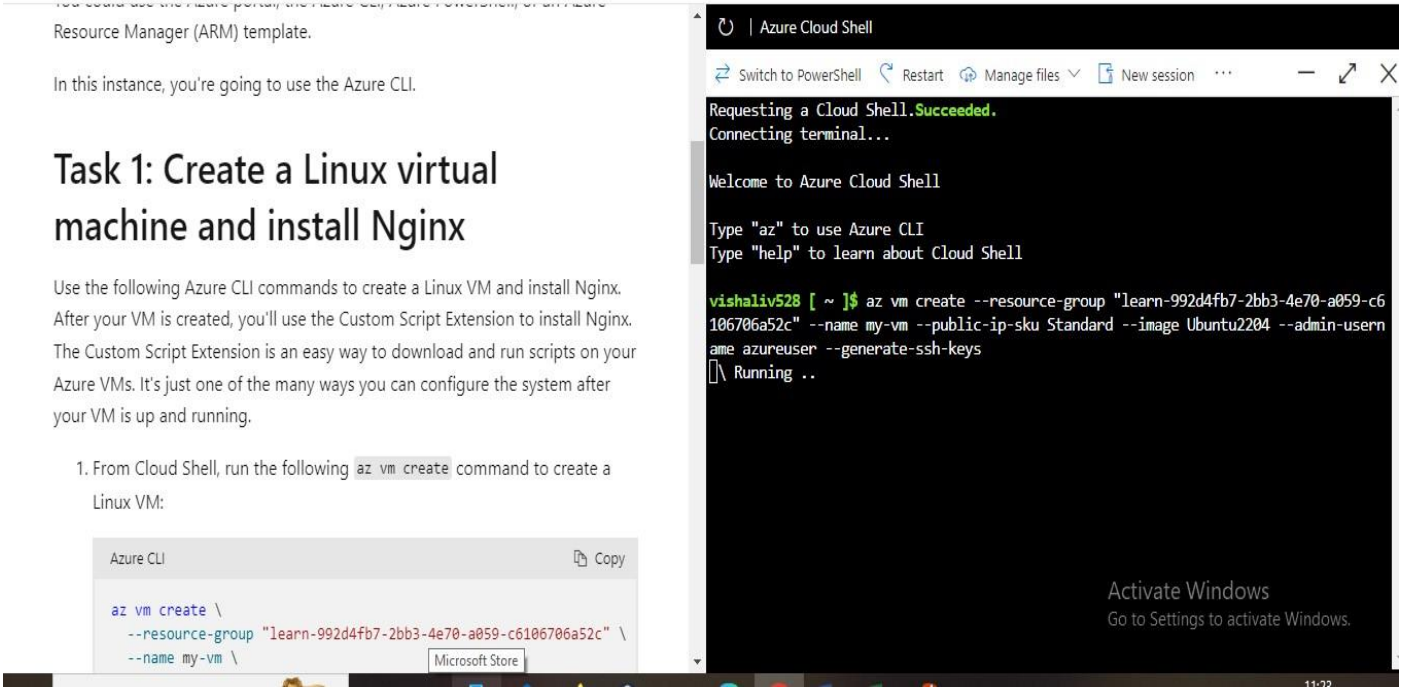
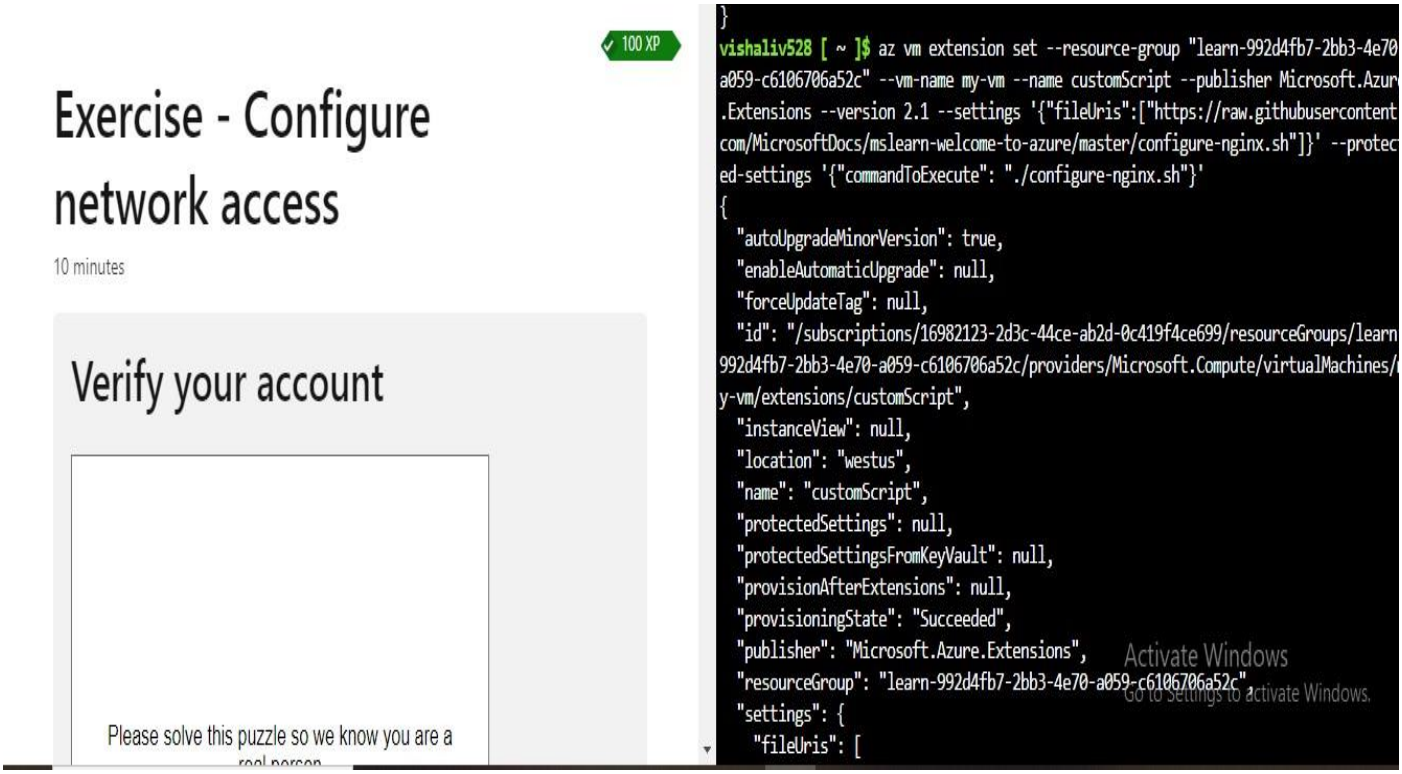
Department	III B.E CSE
Date	10.08.2024

1)Sandbox:

Create a Linux virtual machine and install Nginx



Access your web server



List the current network security group rules

Task 2: List the current network security group rules

Your web server wasn't accessible. To find out why, let's examine your current NSG rules.

1. Run the following `az network nsg list` command to list the network security groups that are associated with your VM:

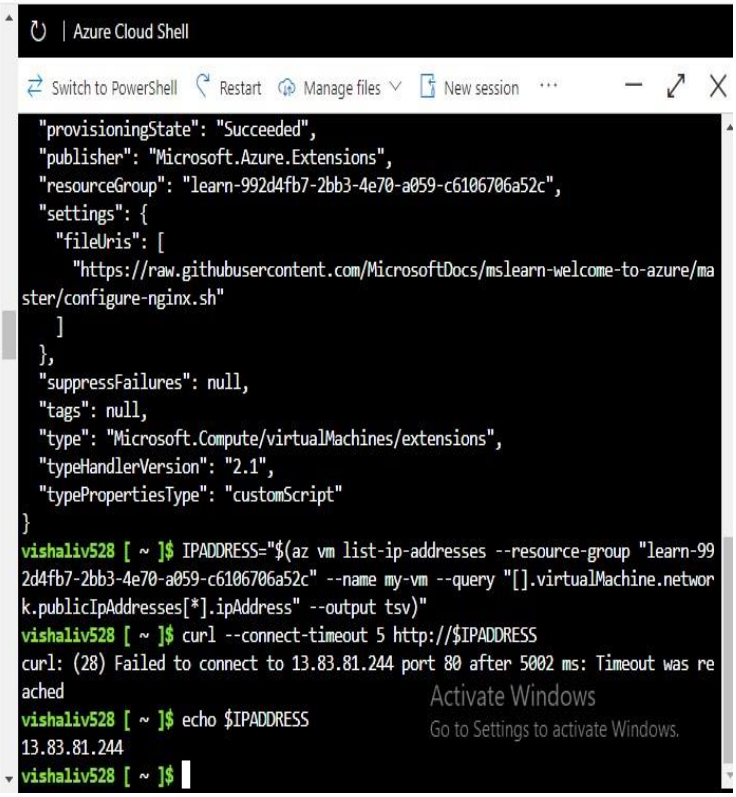
Azure CLI Copy

```
az network nsg list \
  --resource-group "learn-992d4fb7-2bb3-4e70-a059-c6106706a52c" \
  --query '[].name' \
  --output tsv
```

You see this output:

Output Copy

```
my-vmNSG
```



Create the network security rule

Task 3: Create the network security rule

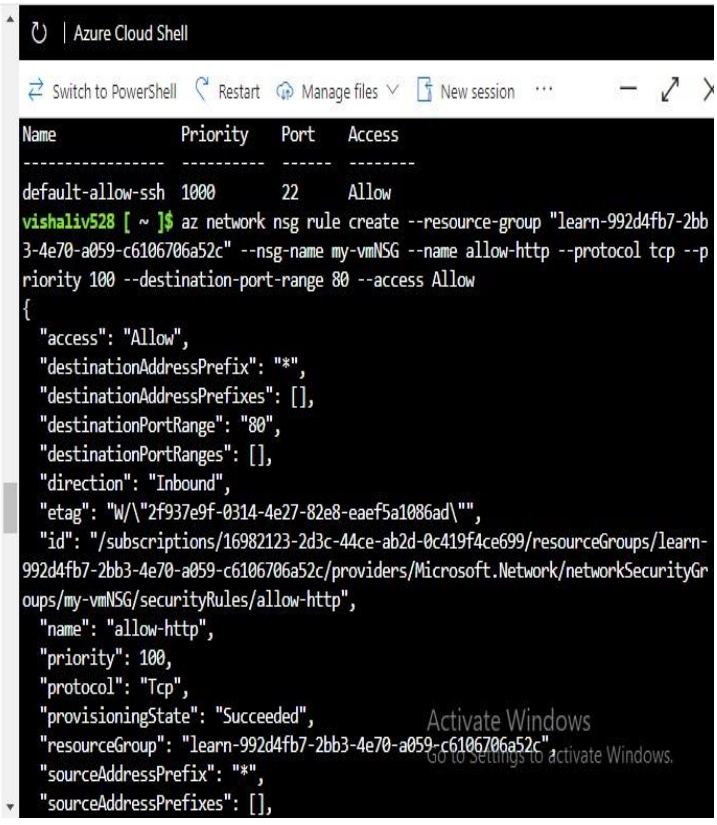
Here, you create a network security rule that allows inbound access on port 80 (HTTP).

1. Run the following `az network nsg rule create` command to create a rule called *allow-http* that allows inbound access on port 80:

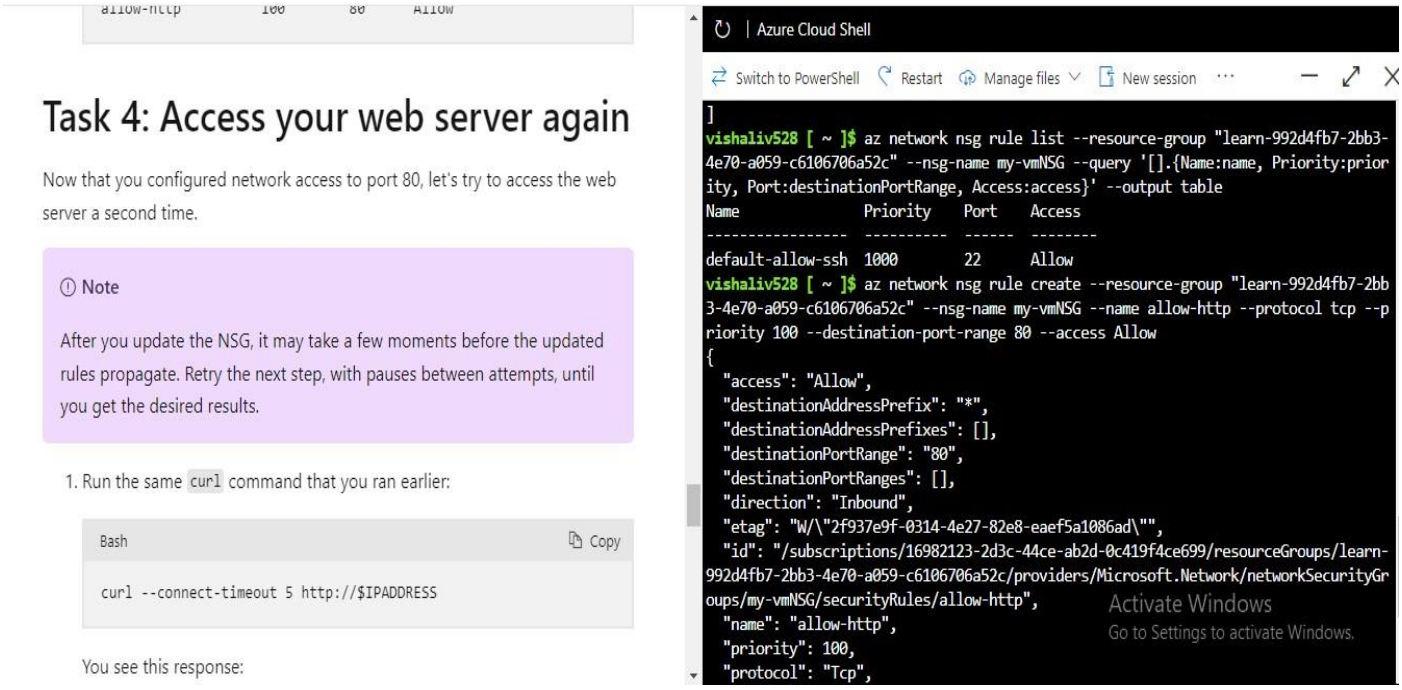
Azure CLI Copy

```
az network nsg rule create \
  --resource-group "learn-992d4fb7-2bb3-4e70-a059-c6106706a52c" \
  --nsg-name my-vmNSG \
  --name allow-http \
  --protocol tcp \
  --priority 100 \
  --destination-port-range 80 \
  --access Allow
```

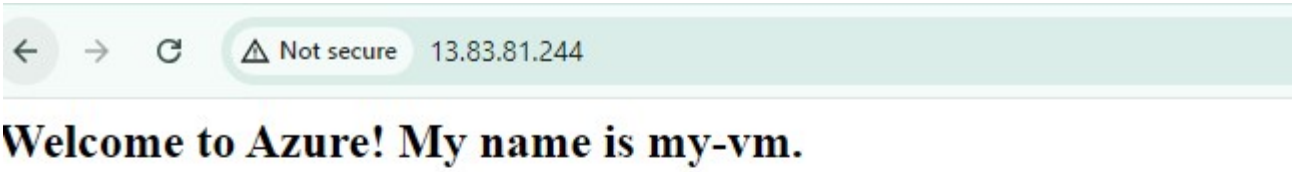
For learning purposes, here you set the priority to 100. In this case, the priority doesn't matter. You would need to consider the priority if you had



Access your web server again

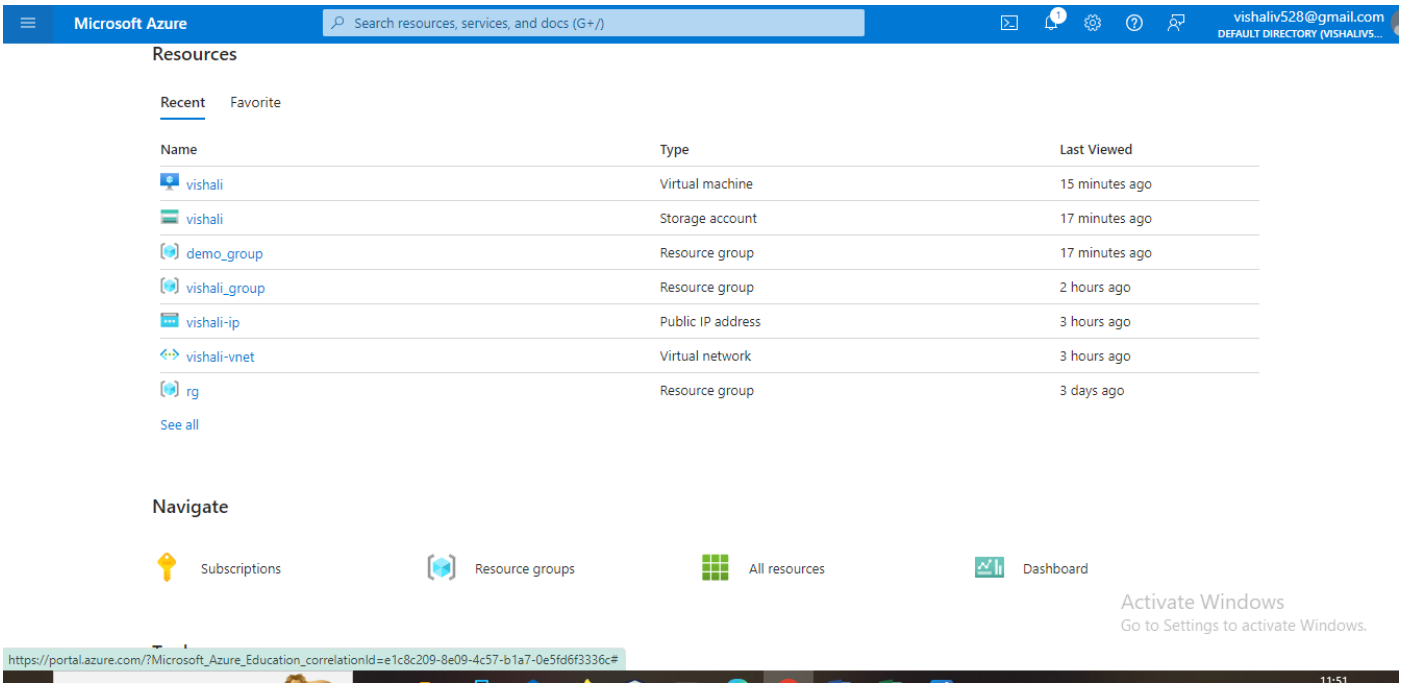


Final output:

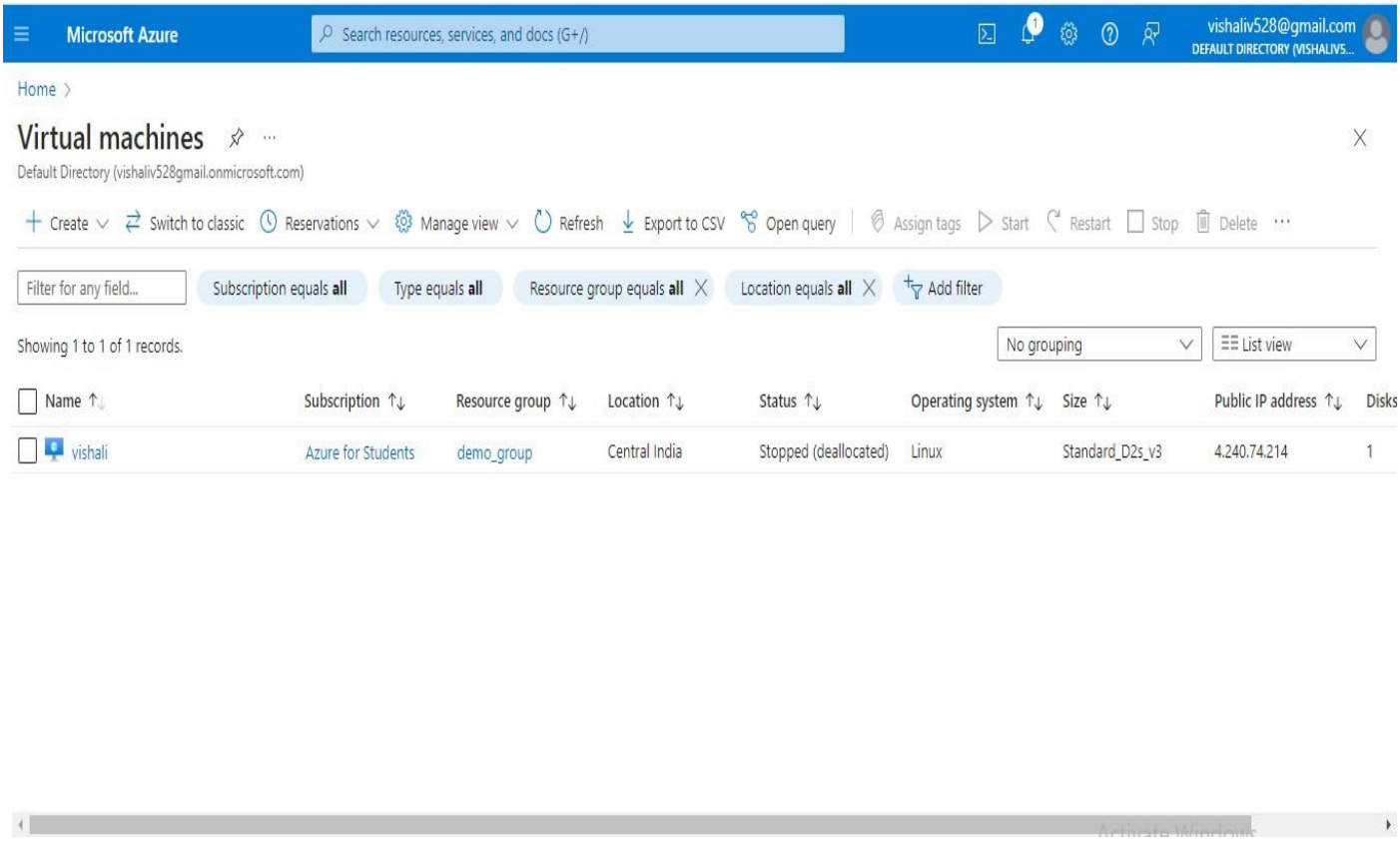


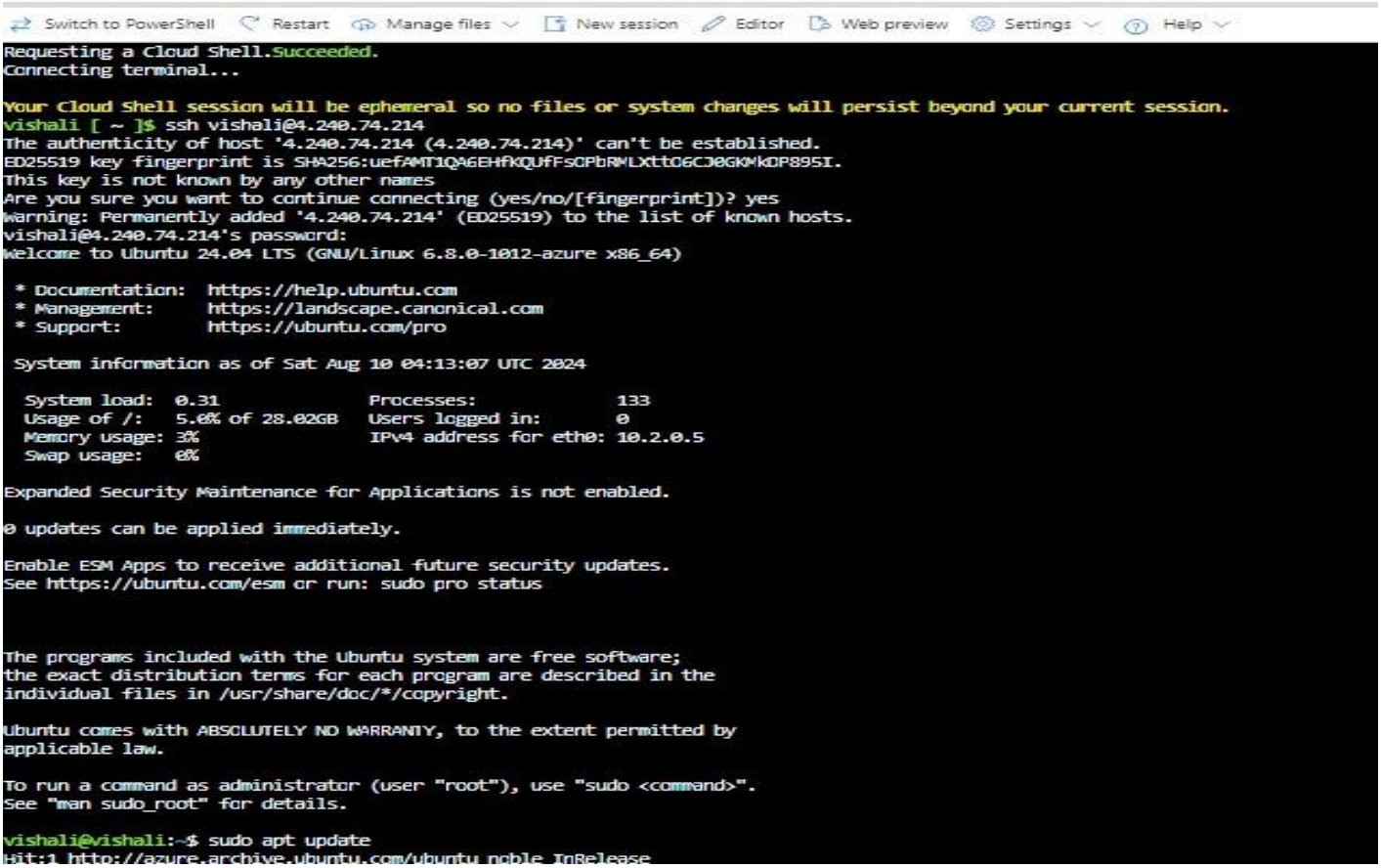
2) Azure Academic Services: Azure for Students

Creation of resource groups

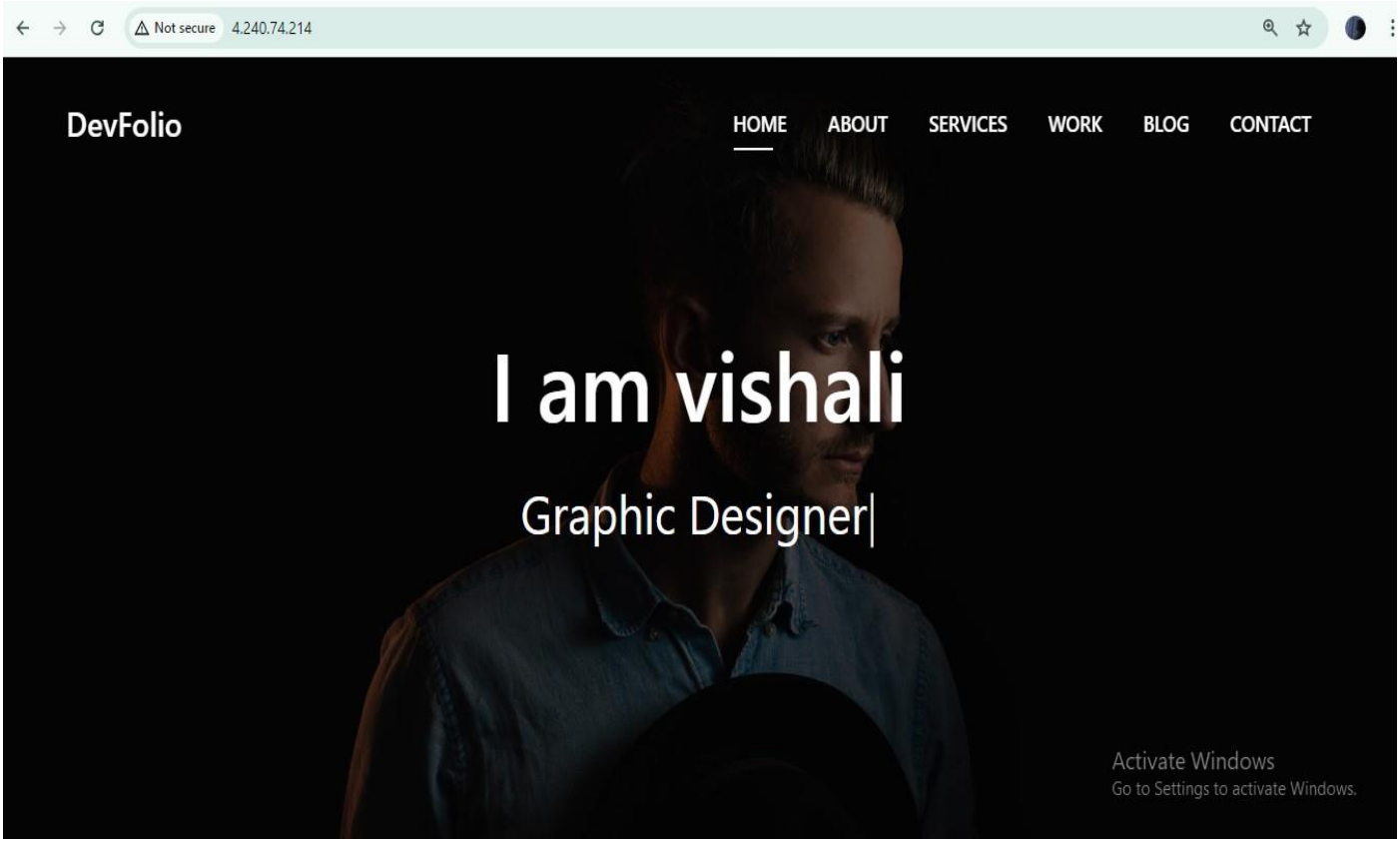


Creation of Virtual Machine

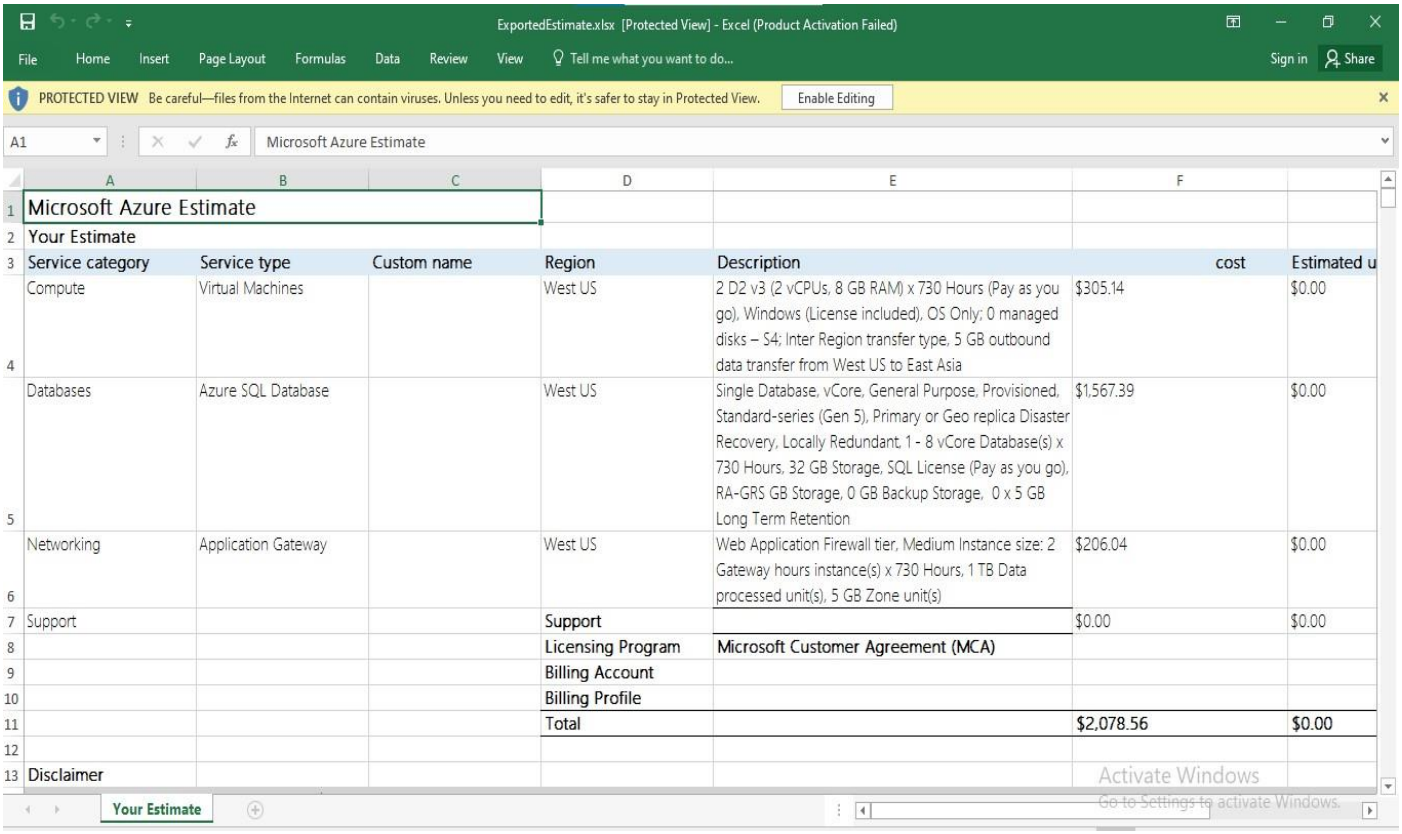




Hosting my portfolio using Azure Cloud Services



Pricing calculator



ExportedEstimate.xlsx [Protected View] - Excel (Product Activation Failed)

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

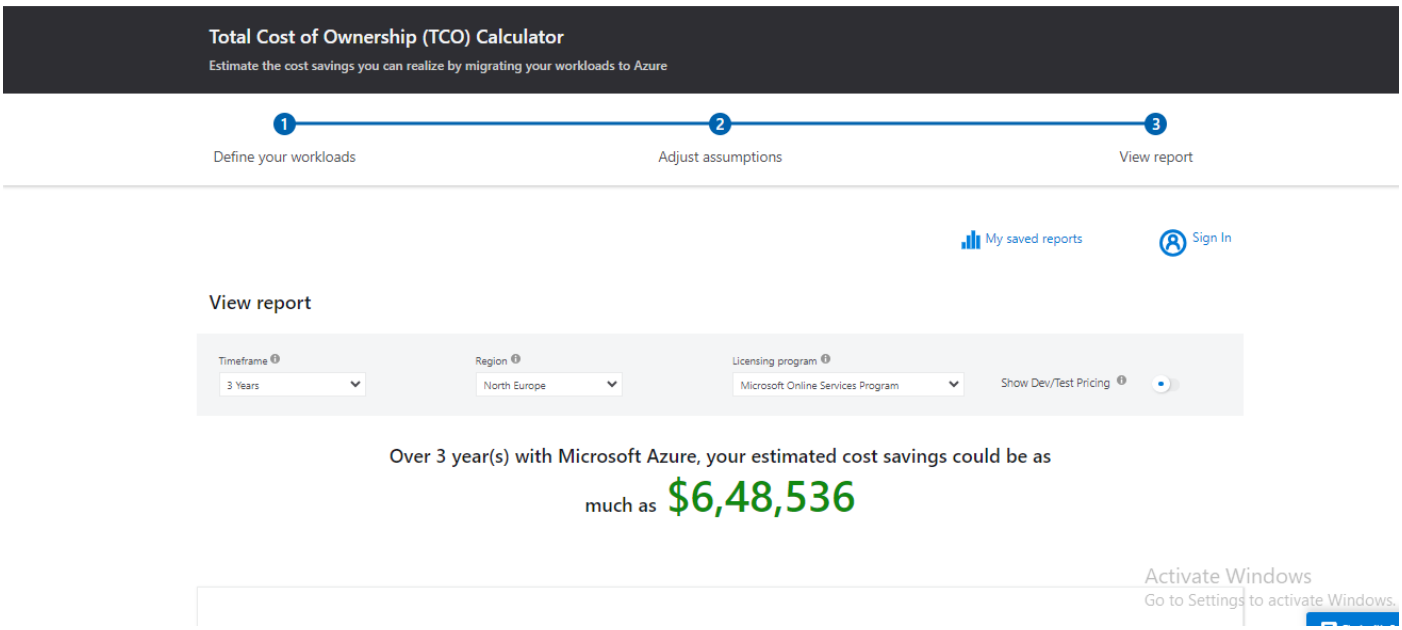
A1: Microsoft Azure Estimate

	A	B	C	D	E	F	
1	Microsoft Azure Estimate						
2	Your Estimate						
3	Service category	Service type	Custom name	Region	Description	cost	Estimated u
4	Compute	Virtual Machines		West US	2 D2 v3 (2 vCPUs, 8 GB RAM) x 730 Hours (Pay as you go), Windows (License included), OS Only; 0 managed disks – S4; Inter Region transfer type, 5 GB outbound data transfer from West US to East Asia	$305.14	$0.00
5	Databases	Azure SQL Database		West US	Single Database, vCore, General Purpose, Provisioned, Standard-series (Gen 5), Primary or Geo replica Disaster Recovery, Locally Redundant, 1 - 8 vCore Database(s) x 730 Hours, 32 GB Storage, SQL License (Pay as you go), RA-GRS GB Storage, 0 GB Backup Storage, 0 x 5 GB Long Term Retention	$1,567.39	$0.00
6	Networking	Application Gateway		West US	Web Application Firewall tier, Medium Instance size: 2 Gateway hours instance(s) x 730 Hours, 1 TB Data processed unit(s), 5 GB Zone unit(s)	$206.04	$0.00
7	Support			Support		$0.00	$0.00
8				Licensing Program	Microsoft Customer Agreement (MCA)		
9				Billing Account			
10				Billing Profile			
11				Total		$2,078.56	$0.00
12							
13	Disclaimer						

Your Estimate

Activate Windows
Go to Settings to activate Windows.

Total Cost of Ownership (TCO) Calculator



Total Cost of Ownership (TCO) Calculator

Estimate the cost savings you can realize by migrating your workloads to Azure

1 Define your workloads — 2 Adjust assumptions — 3 View report

My saved reports | Sign In

View report

Timeframe: 3 Years | Region: North Europe | Licensing program: Microsoft Online Services Program | Show Dev/Test Pricing

Over 3 year(s) with Microsoft Azure, your estimated cost savings could be as much as $6,48,536

Activate Windows
Go to Settings to activate Windows.

Creation of container