MICROSOFT AZURE

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DEPARTMENT: B.Tech COMPUTER SCIENCE AND BUSINESS SYSTEMS

GITHUB LINK: https://github.com/Priya22CB043

REQUESTING A CLOUD SHELL SUCCEEDED.

CONNECTING TERMINAL...

Welcome to Azure Cloud Shell

SANDBOX:

- az vm create --resource-group "learn-1dd151f8-37c6-44cc-a975-8fD8e65c30c2" --name my-vm --public-ip-sku Standard --image Ubuntu2204 --admin-username azureuser --generate-ssh-keys

- az vm extension set --resource-group "learn-1ddl5lf8-37c6-44cc-a975-8f08e65c30c2" --vm-name my-vm --name customscript --publisher Microsoft.Azure.Extensions --version 2.1 --settings '("fileUris":["https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/configure-nginx.sh"]}' --protected-settings '("commandToExecute": "./configure-nginx.sh"}'

- sudo apt-get update
- ssh azureuser@13.91.104.210
- echo "sudo apt-get update -y
- sudo apt-get install nginx -y
- sudo systemctl start nginx
- sudo systemctl enable nginx" > setup nginx.sh
- chmod +x setup nginx.sh
- ./setup nginx.sh

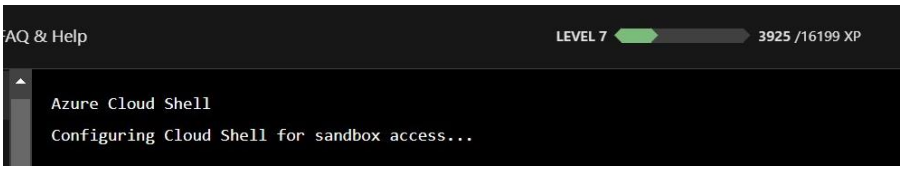
- echo "+html>+body>+h2>Welcome to Azure! My name is $(hostname).+/h2>+/body>+/html>" | sudo tee -a /var/www/html/index.html

- sudo systemctl status nginx

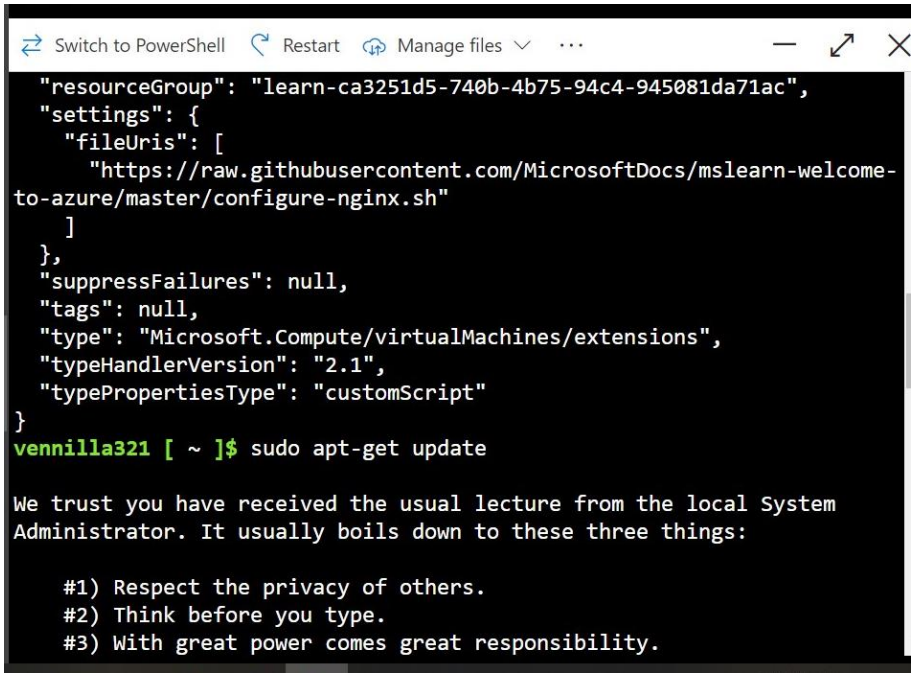
- az vm open-port --resource-group "learn-1ddl5lf8-37c6-44cc-a975-8fD8e65c30c2" --name my-vm --port 80

- az vm list-ip-addresses --resource-group "learn-1dd15lf8-37c6-44cc-a975-8fD8e65c30c2" --name my-vm --output table
- ssh azureuser@13.91.104.210
- sudo apt-get update
- git clone https://github.com/Priya22CB043/Azure.git
- sudo cp -r html/* /var/www/html/
- sudo chown -R www-data:www-data /var/www/html
- sudo chmod -R 755 /var/www/html
- sudo systemctl restart nginx\

EXECUTING COMMANDS IN SAND BOX




```
vennilla321 [ ~ ]$ az vm create --resource-group "learn-ca3251d5-740b-4
b75-94c4-945081da71ac" --name my-vm --public-ip-sku Standard --image Ub
untu2204 --admin-username azureuser --generate-ssh-keys
{
  "fqdns": "",
  "id": "/subscriptions/179dd20b-e2ea-45a0-8003-473940f3d4f1/resourceGr
oups/learn-ca3251d5-740b-4b75-94c4-945081da71ac/providers/Microsoft.Com
pute/virtualMachines/my-vm",
  "location": "westus",
  "macAddress": "60-45-BD-03-B2-86",
  "powerState": "VM running",
  "privateIpAddress": "10.0.0.4",
  "publicIpAddress": "13.91.104.210",
  "resourceGroup": "learn-ca3251d5-740b-4b75-94c4-945081da71ac",
  "zones": ""
}
vennilla321 [ ~ ]$ az vm extension set --resource-group "learn-ca3251d5
-740b-4b75-94c4-945081da71ac" --vm-name my-vm --name customScript --pub
```



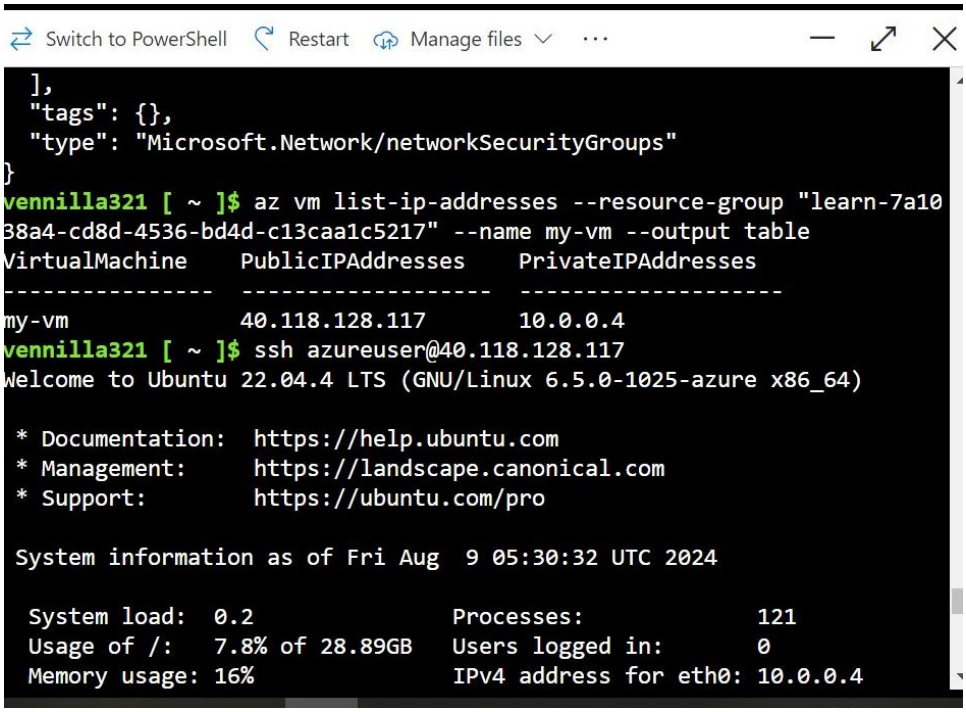
RUNNING HTML IN BROWSER WITH PUBLIC IP ADDRESS

```
azureuser@my-vm:~$ echo "<html><body><h2>Welcome to Azure! My name is
$(hostname).</h2></body></html>" | sudo tee -a /var/www/html/index.html
<html><body><h2>Welcome to Azure! My name is
my-vm.</h2></body></html>
```

Welcome to Azure! My name is my-vm.

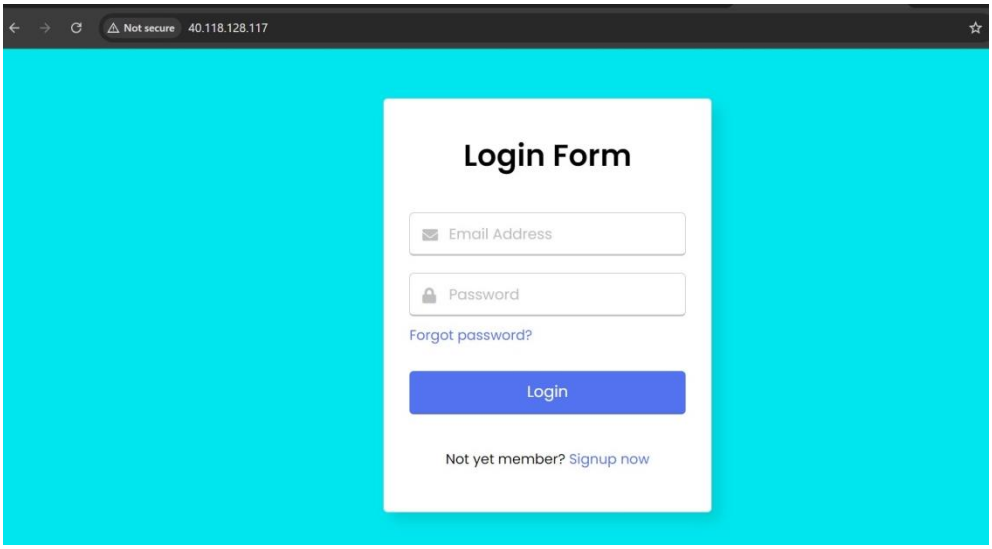
Welcome to Azure! My name is my-vm.

DISPLAYING VIRTUAL MACHINE, PUBLIC IP AND PRIVATE IP



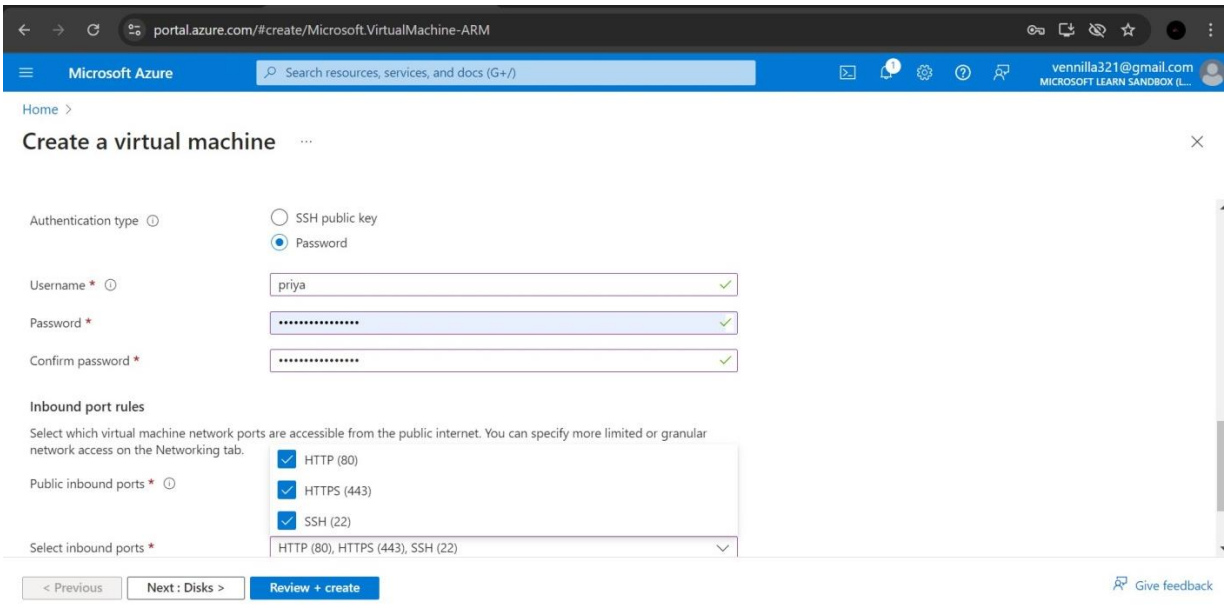
RUNNING PORTFOLIO FROM GIT HUB IN THE BROWSER

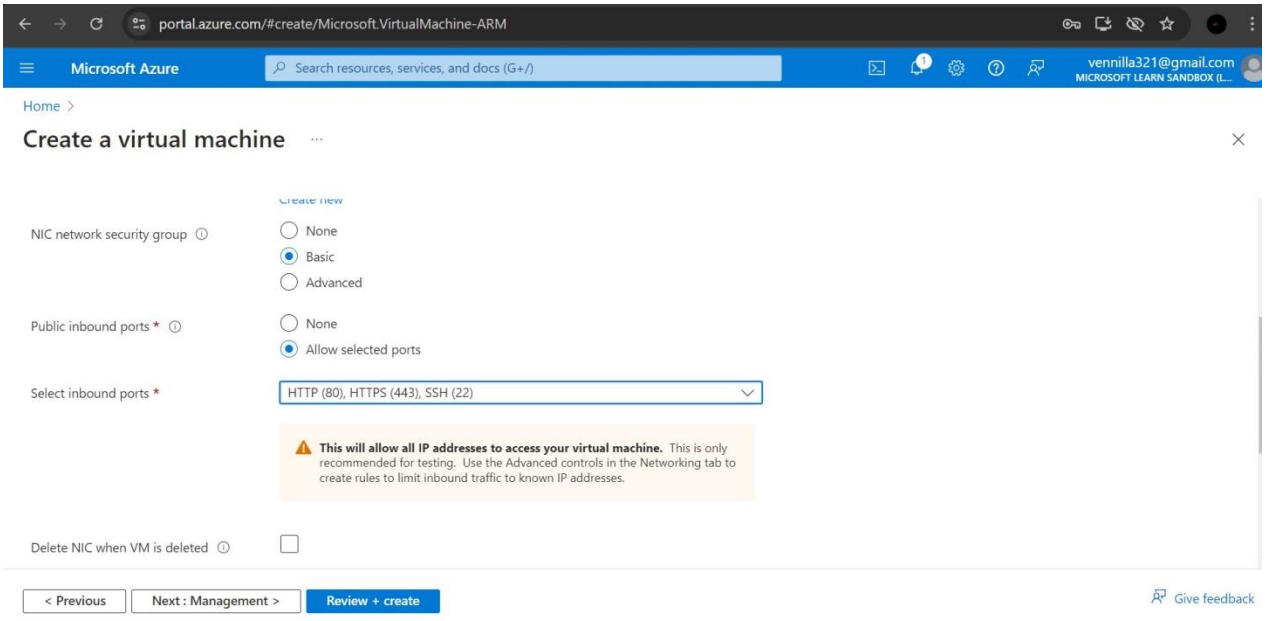
```
Switch to PowerShell  Restart  Manage files  ···
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-1ubuntu1.11).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 10 not upgraded.
azureuser@my-vm:~$ git clone https://github.com/GNiruthian/Login-Page-u
sing-html-css.git
Cloning into 'Login-Page-using-html-css'...
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 5 (delta 0), reused 1 (delta 0), pack-reused 0
Receiving objects: 100% (5/5), done.
azureuser@my-vm:~$ sudo cp -r Login-Page-using-html-css/* /var/www/html
/
azureuser@my-vm:~$ sudo chown -R www-data:www-data /var/www/html
azureuser@my-vm:~$ sudo chown -R www-data:www-data /var/www/html
sudo chmod -R 755 /var/www/html
azureuser@my-vm:~$
```

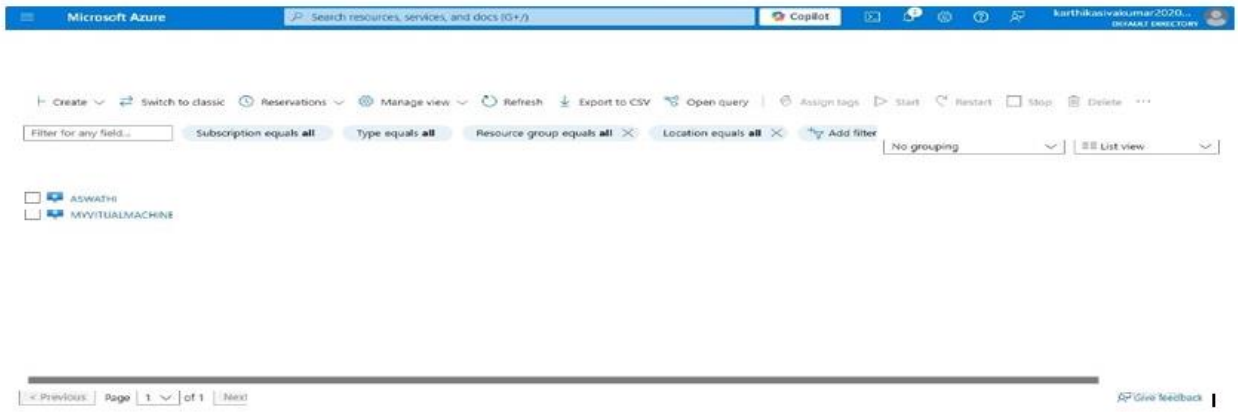


VIRTUAL MACHINE

CREATING A VIRTUAL MACHINE



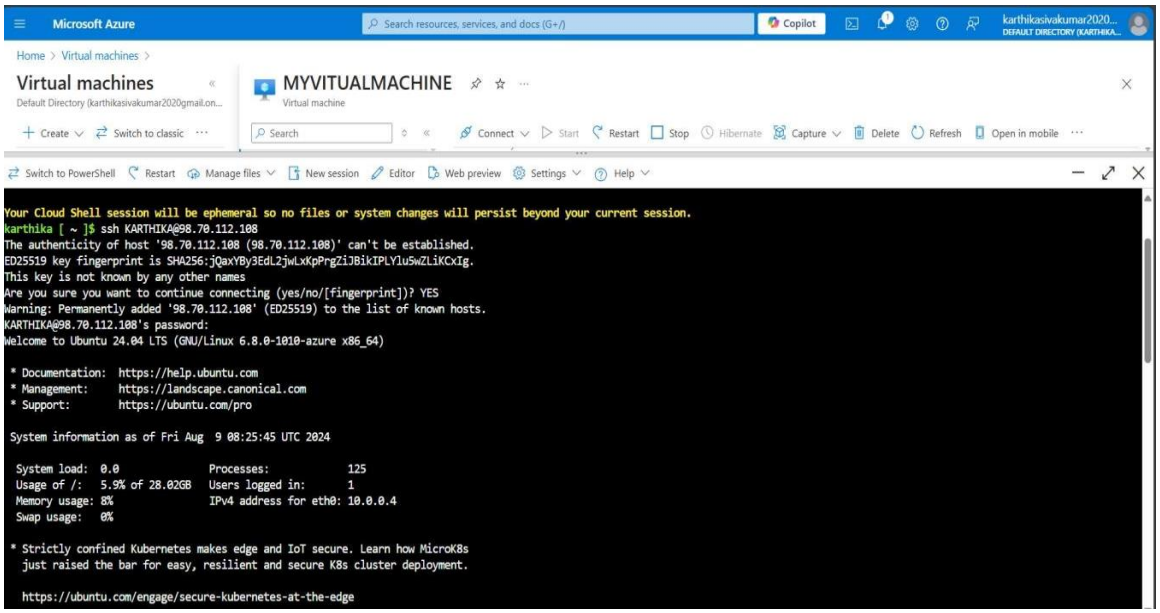




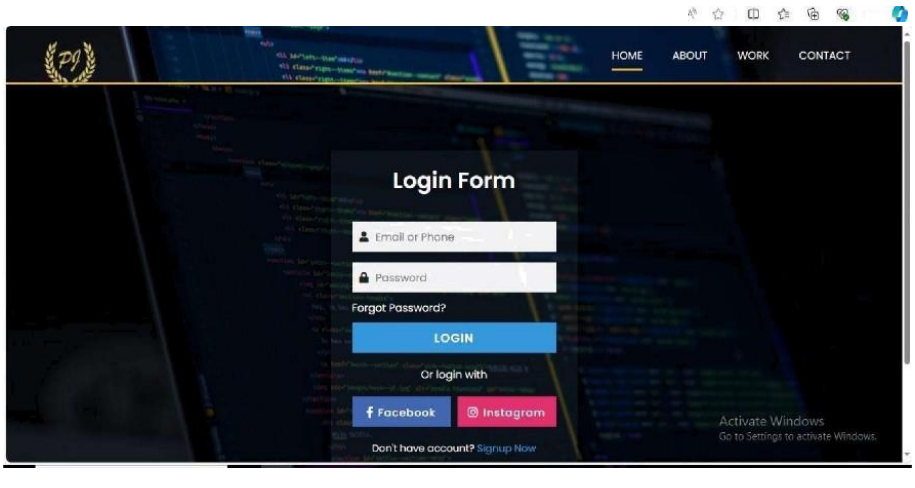
COMMANDS FOR VIRTUAL MACHINE

- ✓ ssh username@13.91.104.210
- ✓ sudo apt update
- ✓ sudo apt install git
- ✓ sudo apt install nginx
- ✓ sudo systemctl start nginx
- ✓ sudo systemctl enable nginx
- ✓ cd /var/www/html
- ✓ sudo rm -rf *
- ✓ sudo git clone https://github.com/Priya22CB043/Azure.git.
- ✓ sudo chown -R www-data:www-data /var/www/html

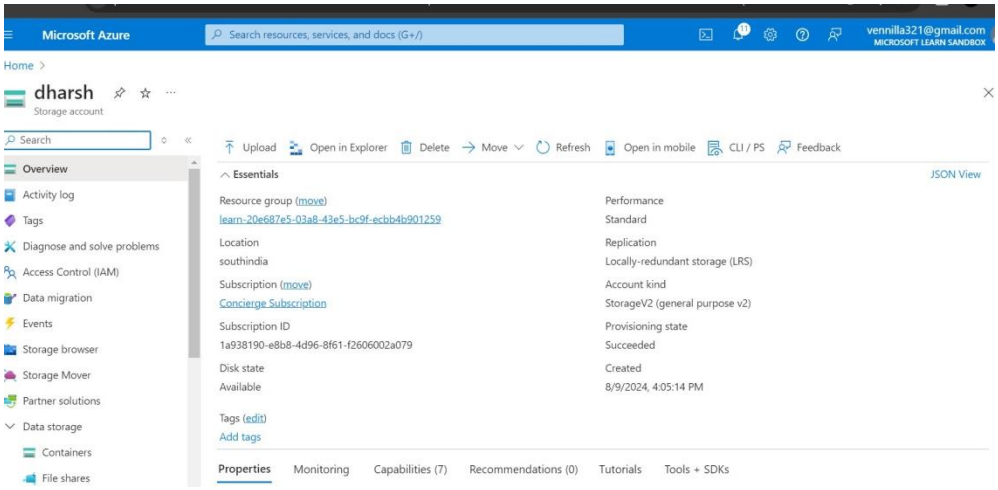
EXECUTING THE VIRTUAL MACHINE COMMANDS

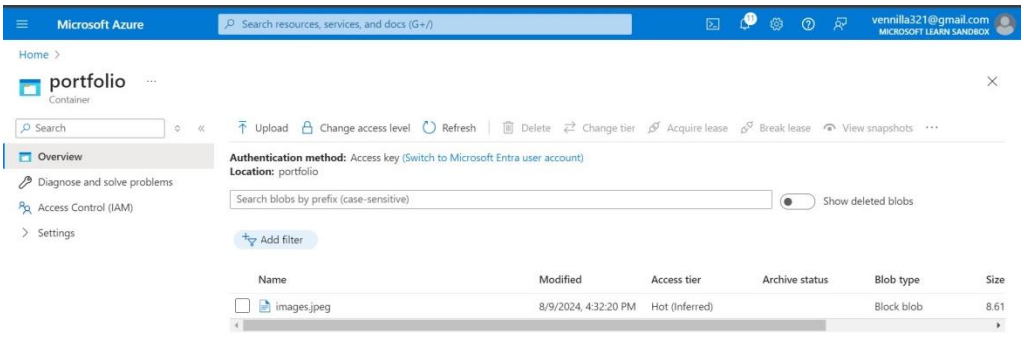


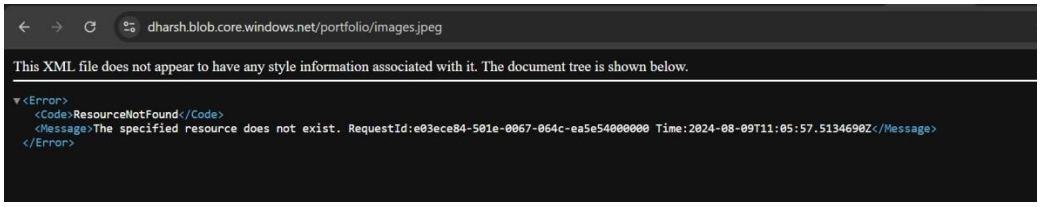

```
Cloning into 'loginpage'...
remote: Enumerating objects: 27, done. remote:
Counting objects: 1BB% (27/27), done.
remote: Compressing objects: 1BB% (25/25), done.
remote: Total 27 (delta 7), reused B (delta B), pack-reused B
Rece1v1ng objeWs: 18BX (27/27}, 522.3B KGB 6.B7 MTB/s, done.
Reso1v1ng deltas: 1BB (7/7) done.
azuneuse -vm: •$ sudo cp -r' Loan-Page-us1ng-htm1-css/" /var/ /V1/ cp:
cannot stat Login-Page- usi ng-ht m- css/"' : No such f11e or d1r'eWory azuruuse my-
vm:=$ sudo rp -r loginpage/* /var/www/html/
azureuse•@-y-vm: $ sudo rhown -R www-data:Www-data /var/wwq/Alsudo
chmod -R 755 /var/www/html
azureuser my-vm: $
```

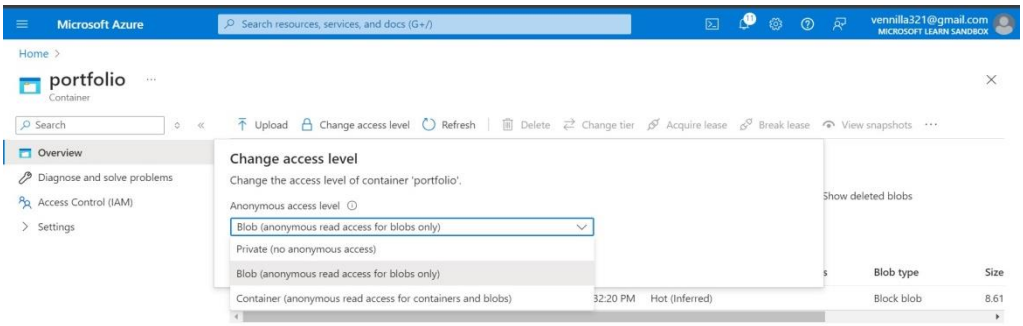


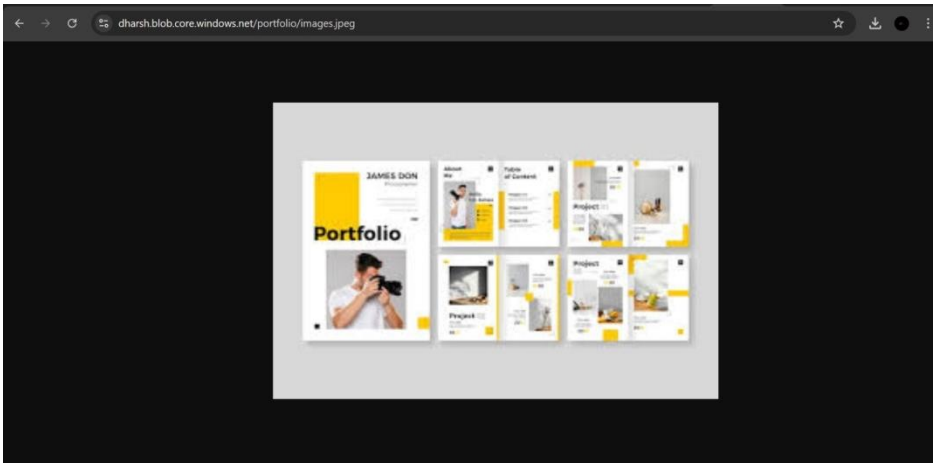
STORAGE SERVICE



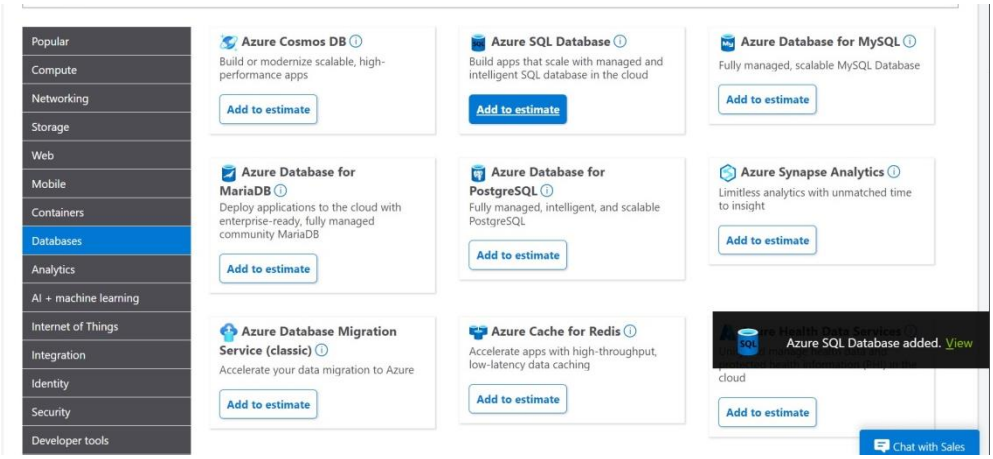


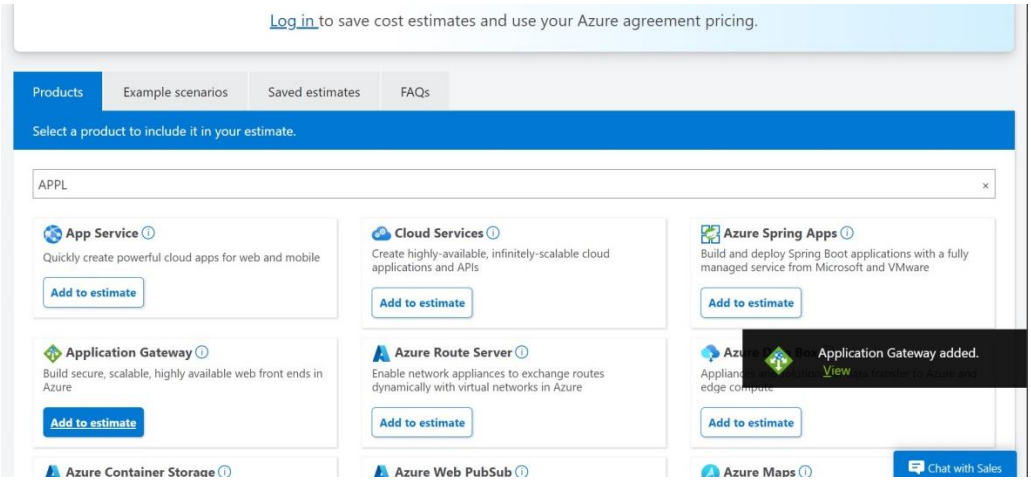


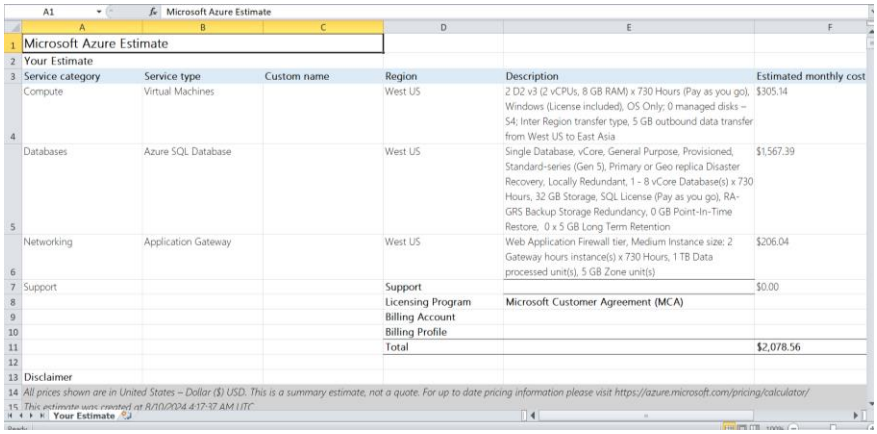




PRICING CALCULATOR

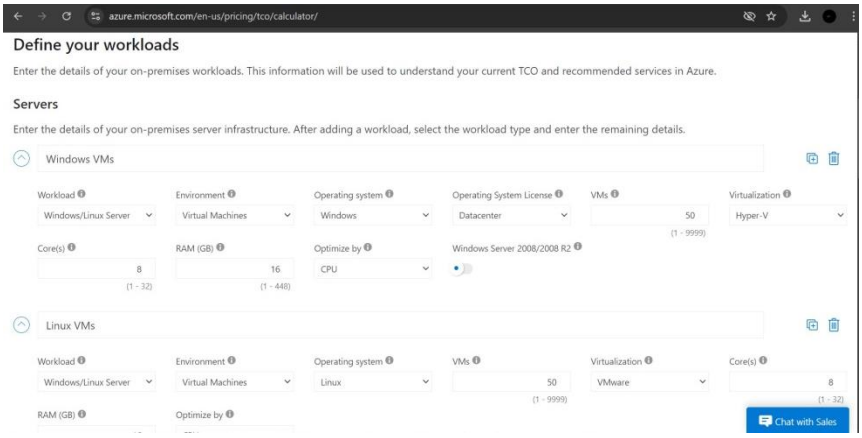


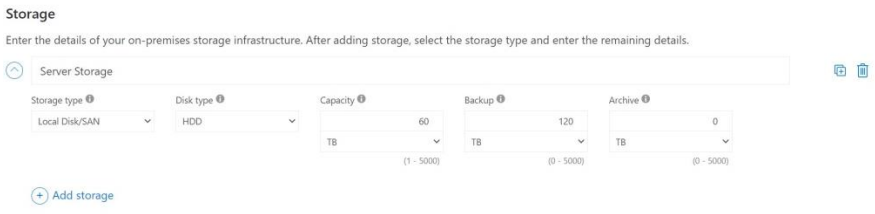


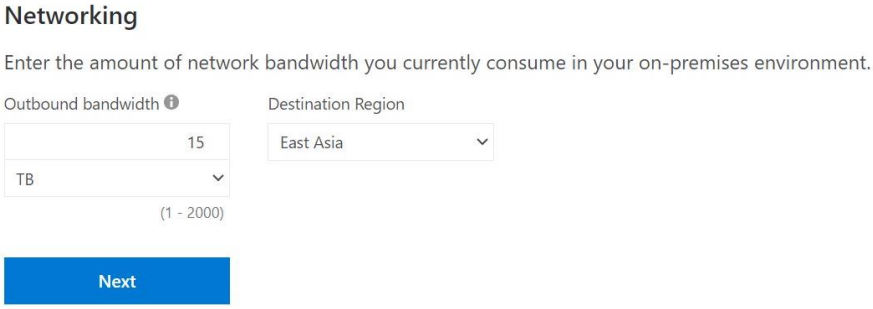


Microsoft Azure Estimate					
Your Estimate					
Service category	Service type	Custom name	Region	Description	Estimated monthly cost
Compute	Virtual Machines		West US	2 D2 v3 (2 vCPUs, 8 GB RAM) x 730 Hours (Pay as you go), Windows (License included), OS Only; 0 managed disks – S4; Inter Region transfer type, 5 GB outbound data transfer from West US to East Asia	$305.14
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 Backup Storage Redundancy, 0 GB Point-In-Time Restore, 0 x 5 GB Long Term Retention	$1,567.39
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
Support			Support		$0.00
			Licensing Program	Microsoft Customer Agreement (MCA)	
			Billing Account		
			Billing Profile		
			Total		$2,078.56
Disclaimer					
All prices shown are in United States – Dollar ($) USD. This is a summary estimate, not a quote. For up to date pricing information please visit https://azure.microsoft.com/pricing/calculator/					
This estimate was created at 8/10/2024 4:17:37 AM UTC					

TOTAL COST OF OWNERSHIP







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

My saved reports | Sign In

View report

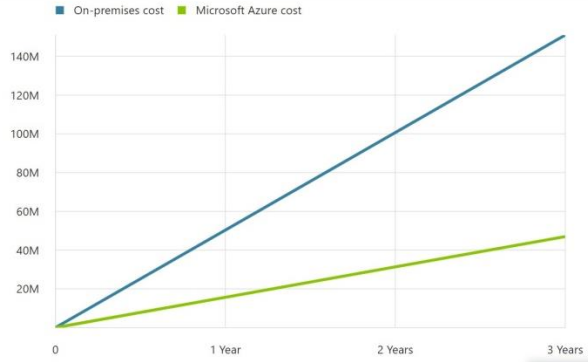
Timeframe: 3 Years | Region: East US | Licensing program: Microsoft Online Services Program | Show Dev/Test Pricing

Over 3 year(s) with Microsoft Azure, your estimated cost savings could be as much as **₹103,994,065**

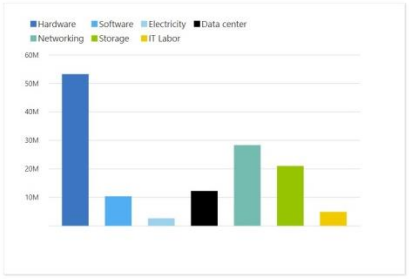
Chat with Sales

Total on-premises vs. Azure cost over time

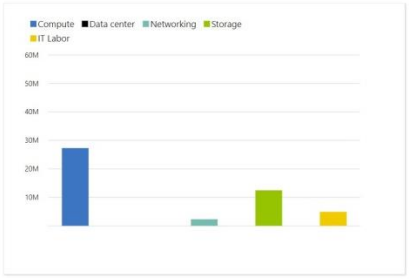
Savings from running workloads in Azure accrue over time. The following shows how those savings add up over years.



Azure | Contact Sales | Try Azure for free



₹150,980,548
Cost over 3 year(s)



₹46,986,483
Cost over 3 year(s)

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On-premises cost breakdown summary

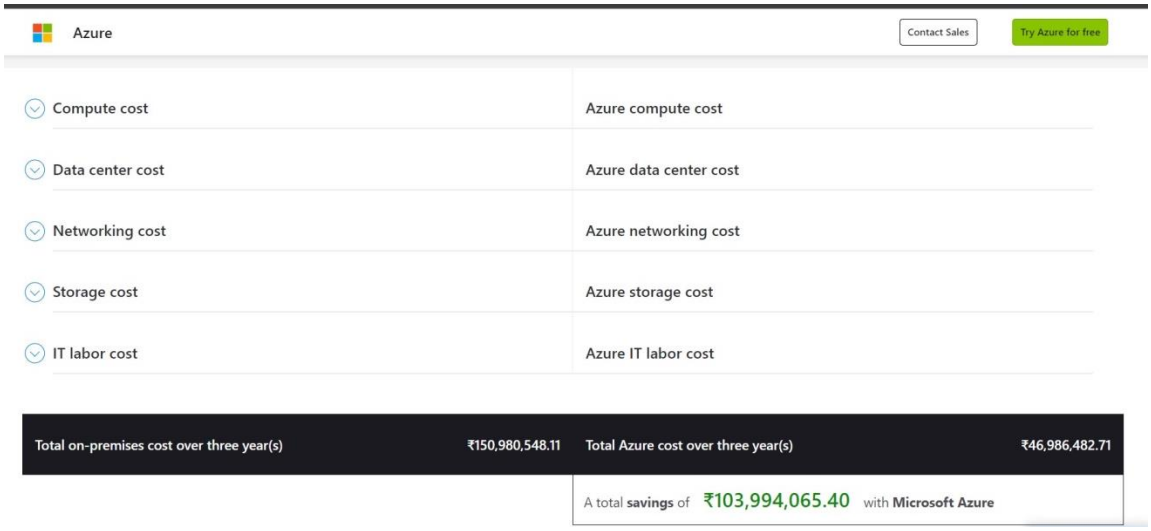
Category	Cost
Compute	₹84,445,426.64
Hardware	₹53,287,872.24
Software	₹10,375,700.10
Electricity	₹2,646,814.42
Virtualization	₹18,135,039.89
Data Center	₹12,245,124.16
Networking	₹28,359,907.24
Storage	₹21,029,422.90
IT Labor	₹4,900,704.01
Total	**₹150,980,548.11**

Azure cost breakdown summary

Category	Cost
Compute	₹27,306,201.61
Data Center	₹0.00
Networking	₹2,314,455.32
Storage	₹12,465,084.92
IT Labor	₹4,900,703.511
Total	**₹46,986,482.71**

Estimated on-premises cost (3 year(s))

Estimated Azure cost (3 year(s))


Azure
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Compute cost
Azure compute cost
Data center cost
Azure data center cost
Networking cost
Azure networking cost
Storage cost
Azure storage cost
IT labor cost
Azure IT labor cost
Total on-premises cost over three year(s)
₹150,980,548.11
Total Azure cost over three year(s)
₹46,986,482.71
A total savings of ₹103,994,065.40 with Microsoft Azure