MICROSOFT AZURE

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DEPARTMENT: B.Tech AI&DS

GitHub:https://github.com/NavyaNelson/NAVYA-N-J-MICROSOFT-AZURE.git

REQUESTING A CLOUD SHELL SUCCEEDED.

Welcome to Azure Cloud Shell

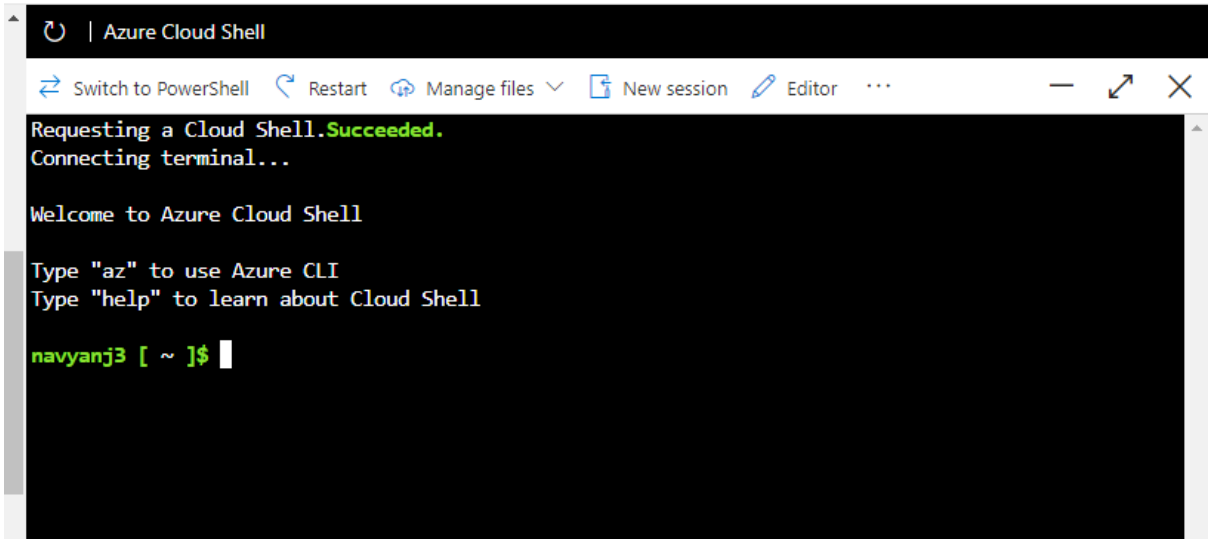
- az vm create --resource-group "learn-4cdfa701-d9c5-4ed5-925e-65fb5e1b0825" --name my-vm --public-ip-sku Standard --image Ubuntu2204 --admin-username azureuser --generate-ssh-keys

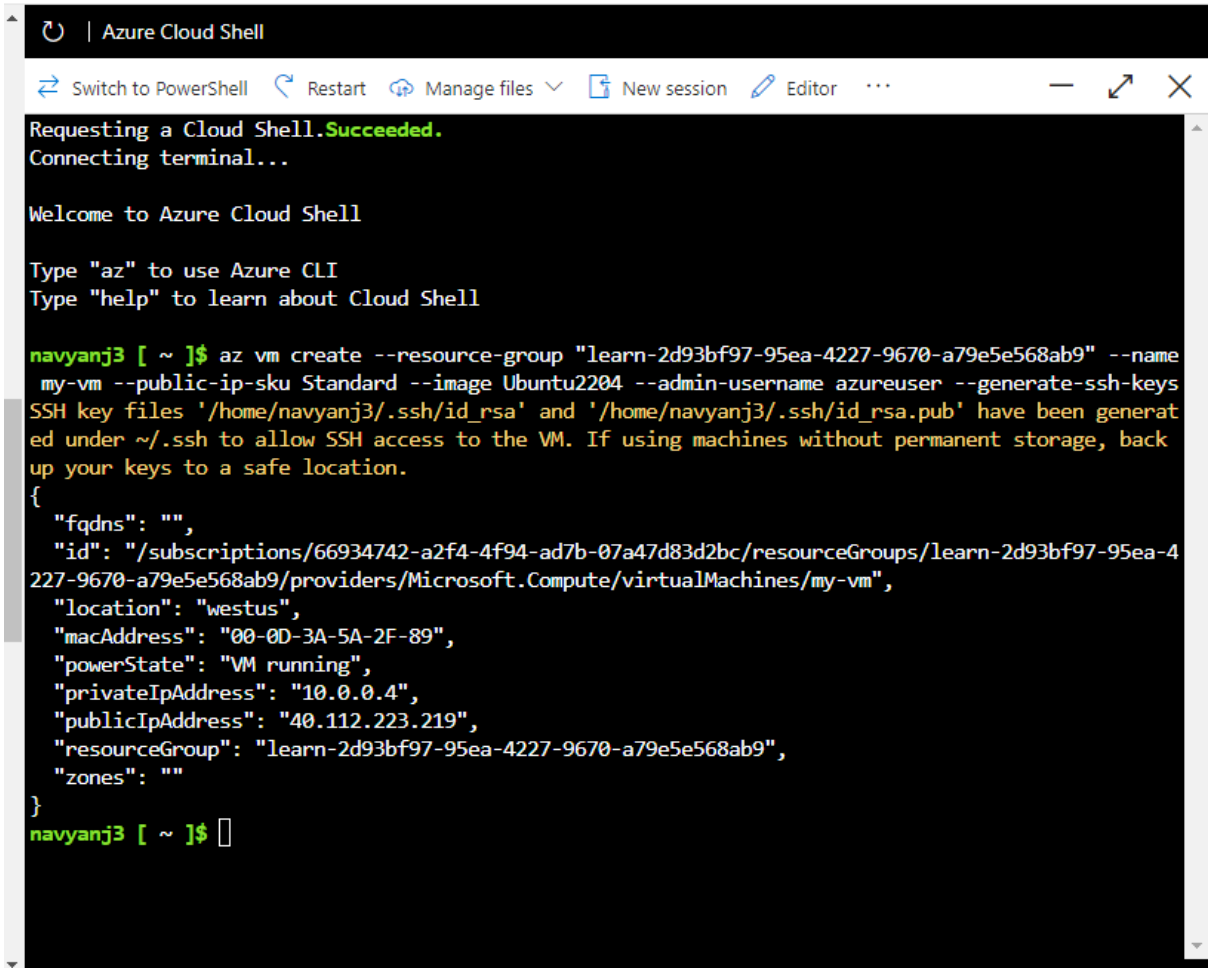
- az vm extension set --resource-group " learn-4cdfa701-d9c5-4ed5-925e-65fb5e1b0825" --vm-name my-vm --name customScript --publisher Microsoft.Azure.Extensions --version 2.1 --settings '{"fileUris":["https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/configure-nginx.sh"]}' --protected-settings '{"commandToExecute": "./configure-nginx.sh"}'

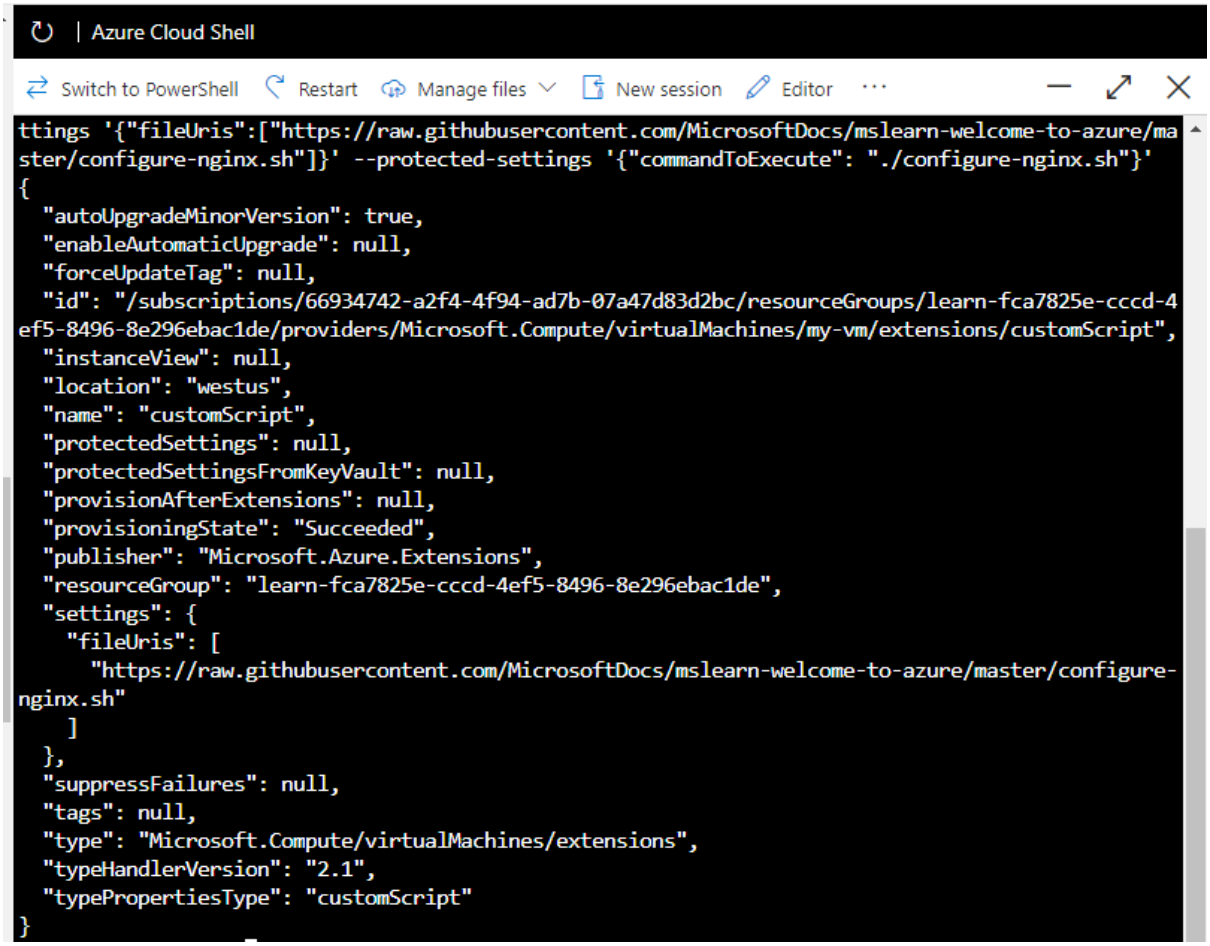
- sudo apt-get update
- ssh azureuser@13.88.18.50
- echo "sudo apt-get update -y
- sudo apt-get install nginx -y

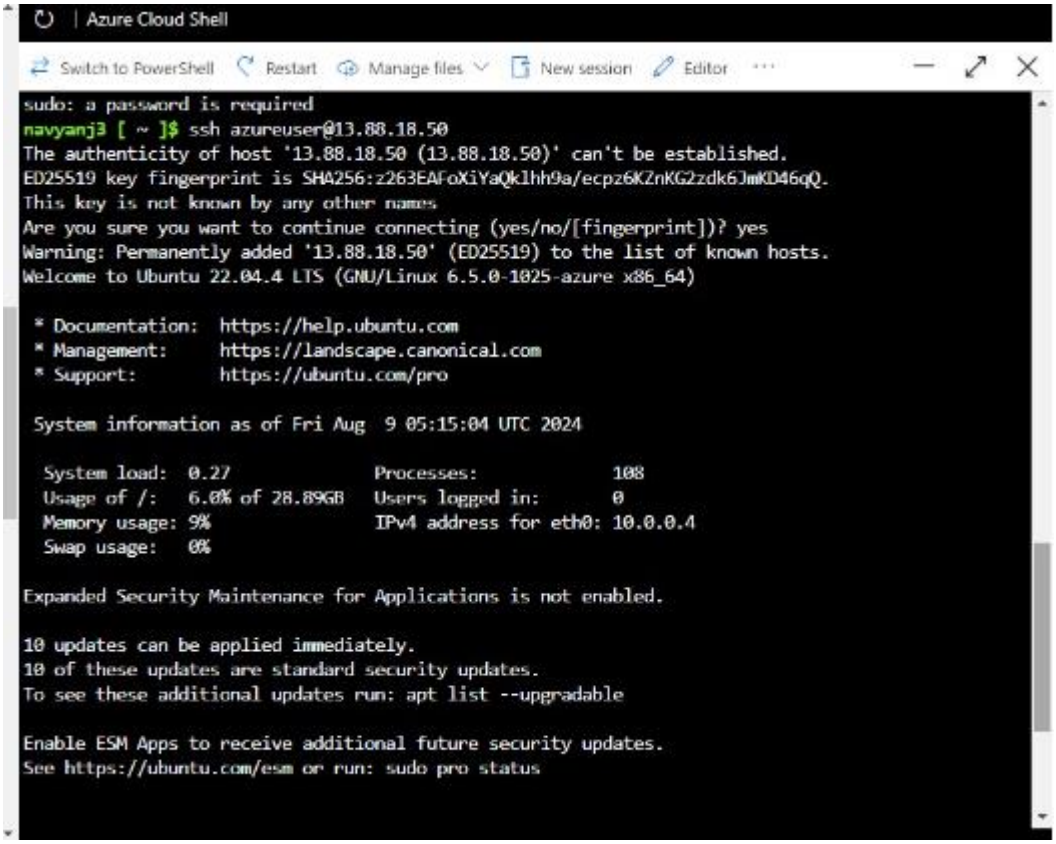
- sudo systemctl start nginx
- sudo systemctl enable nginx" > setup_nginx.sh
- chmod +x setup_nginx.sh
- ./setup_nginx.sh
- echo "<html><body><h2>Welcome to Azure! My name is $(hostname).</h2></body></html>" | sudo tee -a /var/www/html/index.html
- sudo systemctl status nginx
- az vm open-port --resource-group " learn-4cdfa701-d9c5-4ed5-925e-65fb5e1b0825" --name my-vm --port 80
- az vm list-ip-addresses --resource-group " learn-4cdfa701-d9c5-4ed5-925e-65fb5e1b0825" --name my-vm --output table
- ssh azureuser@13.88.18.50
- sudo apt-get update
- git clone https://github.com/NavyaNelson/webpages-1.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

WORKING:


Azure Cloud Shell
Switch to PowerShell
Restart
Manage files
New session
Editor
Requesting a Cloud Shell.Succeeded.
Connecting terminal...
Welcome to Azure Cloud Shell
Type "az" to use Azure CLI
Type "help" to learn about Cloud Shell
navyanj3 [~]$


Azure Cloud Shell
Switch to PowerShell
Restart
Manage files
New session
Editor
Requesting a Cloud Shell.Succeeded.
Connecting terminal...
Welcome to Azure Cloud Shell
Type "az" to use Azure CLI
Type "help" to learn about Cloud Shell
navyanj3 [~]$ az vm create --resource-group "learn-2d93bf97-95ea-4227-9670-a79e5e568ab9" --name my-vm --public-ip-sku Standard --image Ubuntu2204 --admin-username azureuser --generate-ssh-keys
SSH key files '/home/navyanj3/.ssh/id_rsa' and '/home/navyanj3/.ssh/id_rsa.pub' have been generated under ~/.ssh to allow SSH access to the VM. If using machines without permanent storage, back up your keys to a safe location.
{
"fqdns": "",
"id": "/subscriptions/66934742-a2f4-4f94-ad7b-07a47d83d2bc/resourceGroups/learn-2d93bf97-95ea-4227-9670-a79e5e568ab9/providers/Microsoft.Compute/virtualMachines/my-vm",
"location": "westus",
"macAddress": "00-0D-3A-5A-2F-89",
"powerState": "VM running",
"privateIpAddress": "10.0.0.4",
"publicIpAddress": "40.112.223.219",
"resourceGroup": "learn-2d93bf97-95ea-4227-9670-a79e5e568ab9",
"zones": ""
}
navyanj3 [~]$


Azure Cloud Shell
Switch to PowerShell
Restart
Manage files
New session
Editor
ttings '{"fileUris":["https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/configure-nginx.sh"]}' --protected-settings '{"commandToExecute": "./configure-nginx.sh"}'
{
"autoUpgradeMinorVersion": true,
"enableAutomaticUpgrade": null,
"forceUpdateTag": null,
"id": "/subscriptions/66934742-a2f4-4f94-ad7b-07a47d83d2bc/resourceGroups/learn-fca7825e-cccd-4ef5-8496-8e296ebac1de/providers/Microsoft.Compute/virtualMachines/my-vm/extensions/customScript",
"instanceView": null,
"location": "westus",
"name": "customScript",
"protectedSettings": null,
"protectedSettingsFromKeyVault": null,
"provisionAfterExtensions": null,
"provisioningState": "Succeeded",
"publisher": "Microsoft.Azure.Extensions",
"resourceGroup": "learn-fca7825e-cccd-4ef5-8496-8e296ebac1de",
"settings": {
"fileUris": [
"https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/configure-nginx.sh"
]
},
"suppressFailures": null,
"tags": null,
"type": "Microsoft.Compute/virtualMachines/extensions",
"typeHandlerVersion": "2.1",
"typePropertiesType": "customScript"
}


Azure Cloud Shell
Switch to PowerShell
Restart
Manage files
New session
Editor
sudo: a password is required
navyanj3 [~]$ ssh azureuser@13.88.18.50
The authenticity of host '13.88.18.50 (13.88.18.50)' can't be established.
ED25519 key fingerprint is SHA256:z263EAFoXiYaQklhh9a/ecpz6KZnKG2zdk6JmKD46qQ.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '13.88.18.50' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1025-azure x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
System information as of Fri Aug 9 05:15:04 UTC 2024
System load: 0.27 Processes: 108
Usage of /: 6.0% of 28.89GB Users logged in: 0
Memory usage: 9% IPv4 address for eth0: 10.0.0.4
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
10 updates can be applied immediately.
10 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

```
azureuser@my-vm:~$ 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
Hit:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nginx is already the newest version (1.18.0-6ubuntu14.4).
0 upgraded, 0 newly installed, 0 to remove and 10 not upgraded.
Synchronizing state of nginx.service with SysV service script with /lib/systemd/systemd-sysv-inst
all.
Executing: /lib/systemd/systemd-sysv-install enable nginx
azureuser@my-vm:~$
```

```
azureuser@my-vm:~$ echo "<html><body><h2>Welcome to Azure! My name is $(hostname).</h2></body></h
tml>" | sudo tee -a /var/www/html/index.html
<html><body><h2>Welcome to Azure! My name is my-vm.</h2></body></html>
azureuser@my-vm:~$ sudo systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
     Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
     Active: active (running) since Fri 2024-08-09 05:13:28 UTC; 5min ago
       Docs: man:nginx(8)
   Main PID: 2352 (nginx)
      Tasks: 2 (limit: 4011)
     Memory: 4.6M
        CPU: 32ms
     CGroup: /system.slice/nginx.service
             ├─2352 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─2355 "nginx: worker process" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "

Aug 09 05:13:28 my-vm systemd[1]: Starting A high performance web server and a reverse proxy ser
Aug 09 05:13:28 my-vm systemd[1]: Started A high performance web server and a reverse proxy serv
lines 1-14/14 (END)
```

```
lines 1-14/14 (END)
azureuser@my-vm:~$ exit
logout
Connection [illegible] closed.
navyanj3 [
```

HP Support Assistant

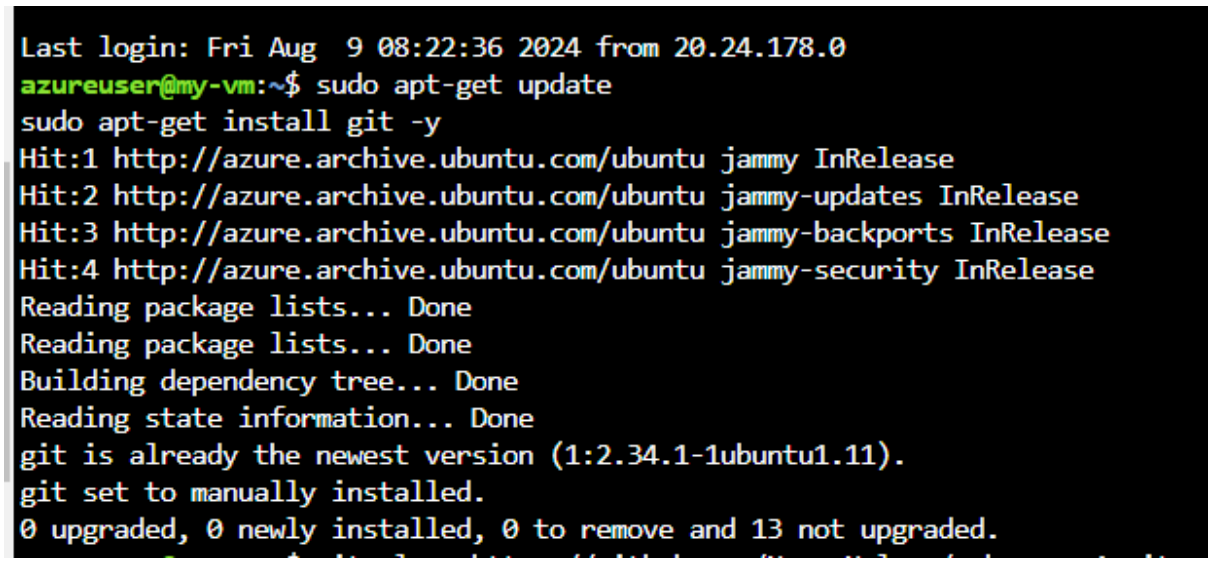
```
navyanj3 [ ~ ]$ az vm open-port --resource-group "learn-4cdfa701-d9c5-4ed5-925e-65fb5e1b0825" -
ame my-vm --port 80
{
  "defaultSecurityRules": [
    {
      "access": "Allow",
      "description": "Allow inbound traffic from all VMs in VNET",
      "destinationAddressPrefix": "VirtualNetwork",
      "destinationAddressPrefixes": [],
      "destinationPortRange": "*",
      "destinationPortRanges": [],
      "direction": "Inbound",
      "etag": "W/\"b4b54faf-eeb6-474c-b318-acc8a85be208\"",
      "id": "/subscriptions/e6b1a91a-7af1-4025-8a99-f717210b4a91/resourceGroups/learn-4cdfa701-
c5-4ed5-925e-65fb5e1b0825/providers/Microsoft.Network/networkSecurityGroups/my-vmNSG/defaultSec
ityRules/AllowVnetInBound",
      "name": "AllowVnetInBound",
      "priority": 65000,
      "protocol": "*",
      "provisioningState": "Succeeded",
      "resourceGroup": "learn-4cdfa701-d9c5-4ed5-925e-65fb5e1b0825",
      "sourceAddressPrefix": "VirtualNetwork",
      "sourceAddressPrefixes": [],
      "sourcePortRange": "*",
      "sourcePortRanges": [],
      "type": "Microsoft.Network/networkSecurityGroups/defaultSecurityRules"
    },
    {
      "access": "Allow",
```

```
navyanj3 [ ~ ]$ az vm list-ip-addresses --resource-group "learn-4cdfa701-d9c5-4ed5-925e-65fb5e1b0
825" --name my-vm --output table
VirtualMachine    PublicIPAddresses    PrivateIPAddresses
----------------  -------------------  --------------------
my-vm             13.88.18.50          10.0.0.4
navyanj3 [ ~ ]$
```

Welcome to Azure! My name is my-vm.

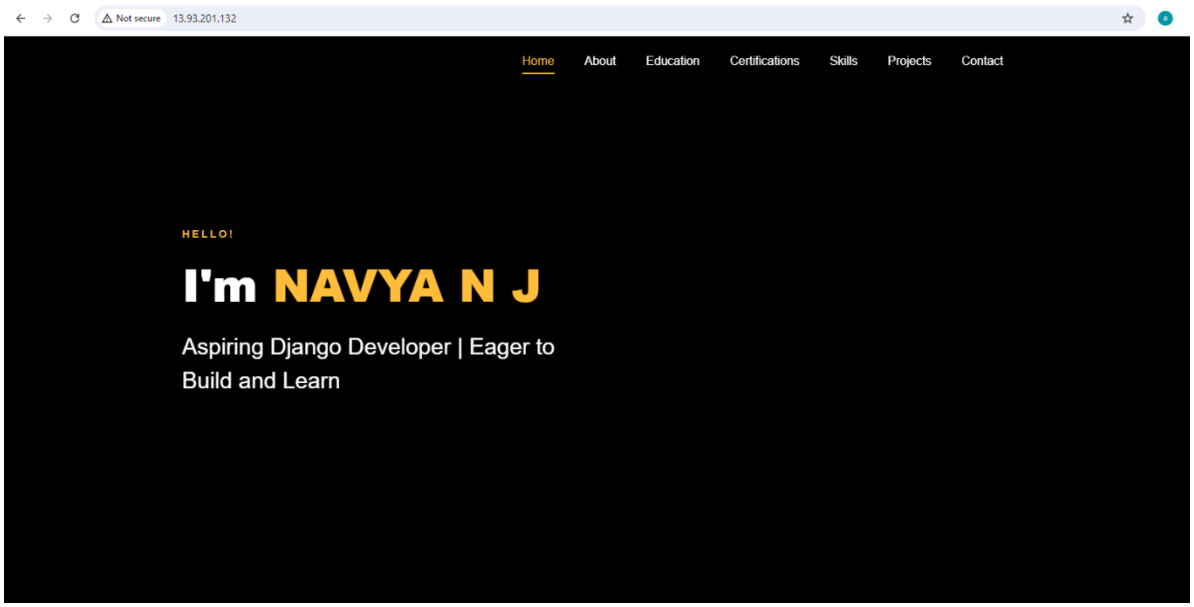
Welcome to Azure! My name is my-vm.

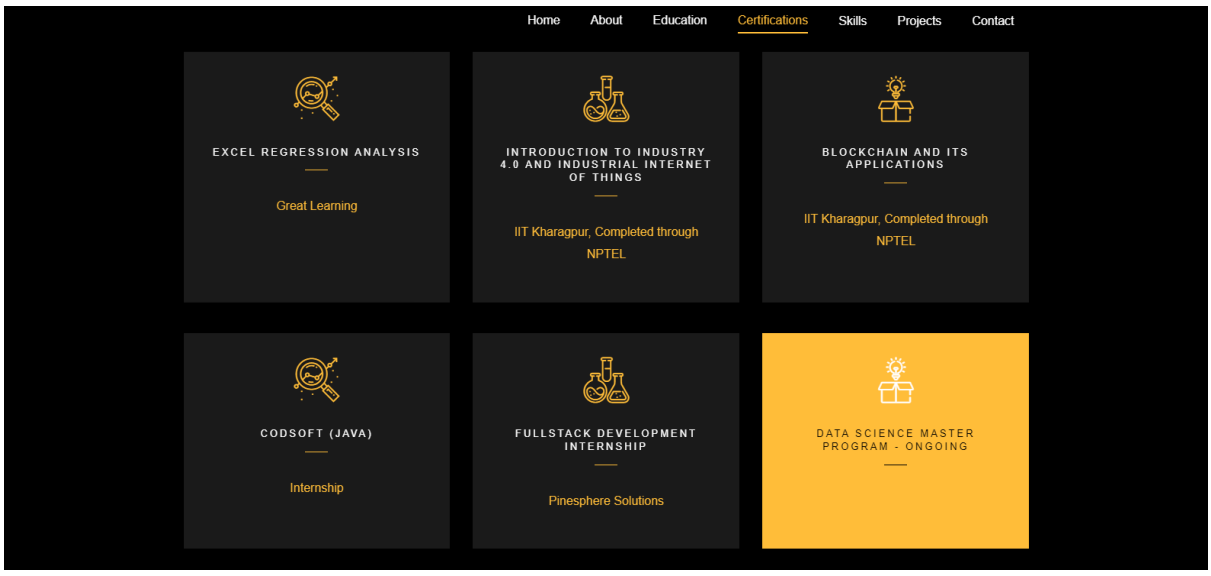

navyanj3 [~]$ ssh azureuser@13.88.18.50
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1025-azure x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
System information as of Fri Aug 9 05:38:06 UTC 2024
System load: 0.24
Usage of /: 7.8% of 28.89GB
Memory usage: 16%
Swap usage: 0%
Processes: 118
Users logged in: 0
IPv4 address for eth0: 10.0.0.4
Expanded Security Maintenance for Applications is not enabled.
10 updates can be applied immediately.
10 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
Last login: Fri Aug 9 05:15:07 2024 from 20.235.216.176
azureuser@my-vm:~$


Last login: Fri Aug 9 08:22:36 2024 from 20.24.178.0
azureuser@my-vm:~$ sudo apt-get update
sudo apt-get install git -y
Hit:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease
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 13 not upgraded.

```
azureuser@my-vm:~$ git clone https://github.com/NavyaNelson/webpages-1.git
Cloning into 'webpages-1'...
remote: Enumerating objects: 207, done.
remote: Counting objects: 100% (207/207), done.
remote: Compressing objects: 100% (184/184), done.
remote: Total 207 (delta 17), reused 207 (delta 17), pack-reused 0
Receiving objects: 100% (207/207), 8.65 MiB | 33.06 MiB/s, done.
Resolving deltas: 100% (17/17), done.
azureuser@my-vm:~$ sudo cp -r webpages-1/* /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:~$ sudo systemctl restart nginx
azureuser@my-vm:~$
```

OUTPUT:





2. DESCRIBE AZURE STORAGE SERVICES

WORK WITH BLOB STORAGE

In this section, you'll create a Blob container and upload a picture.

1. Under **Data storage**, select **Containers**.
2. Select **+ Container** and complete the information.
3. Select Create.

Note

Step 4 will need an image. If you want to upload an image you already have on your computer, continue to Step 4. Otherwise, open a new browser window and search Bing for an image of a flower. Save the image to your computer.

4. Back in the Azure portal, select the container you created, then select Upload.
5. Browse for the image file you want to upload. Select it and then select upload.

Note

You can upload as many blobs as you like in this way. New blobs will be listed within the container.

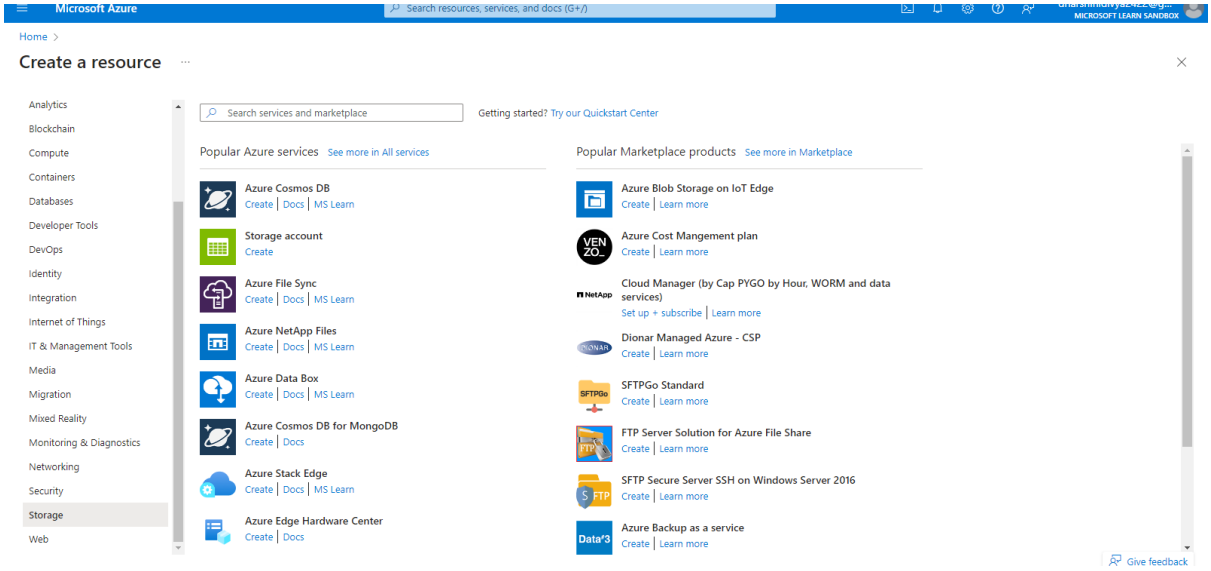
6. Select the Blob (file) you just uploaded. You should be on the properties tab.
7. Copy the URL from the URL field and paste it into a new tab.

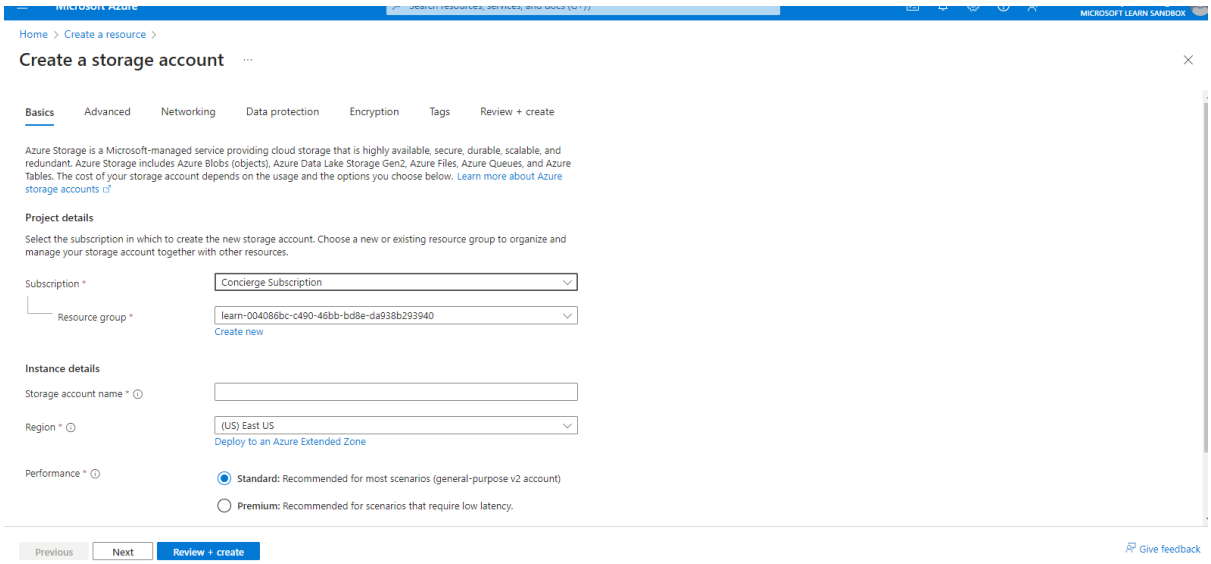
- **Change the access level of your blob**

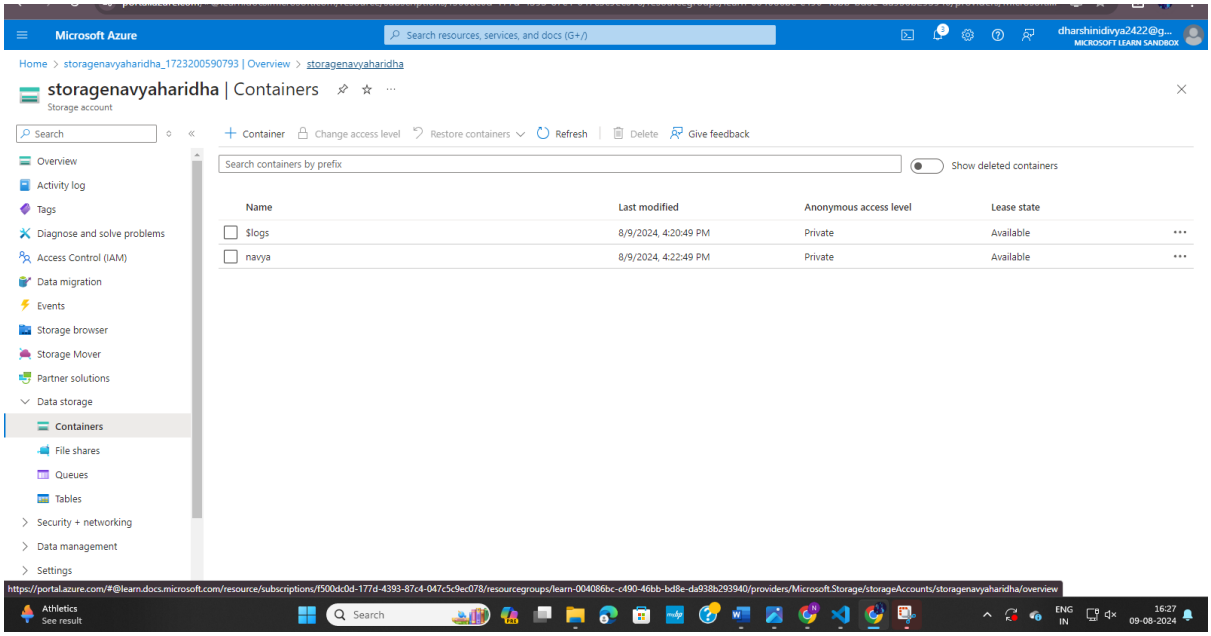
1. Go back to the Azure portal.
2. Select Change access level.

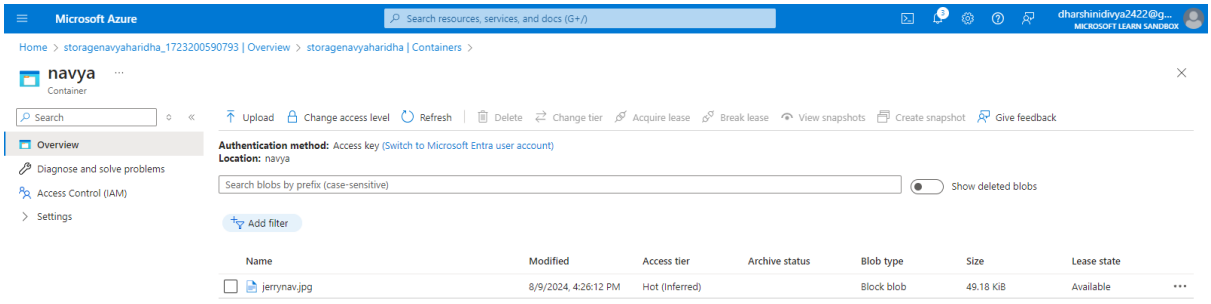
3. Set the Anonymous access level to Blob (anonymous read access for blobs only).
4. Select OK.
5. Refresh the tab where you attempted to access the file earlier.

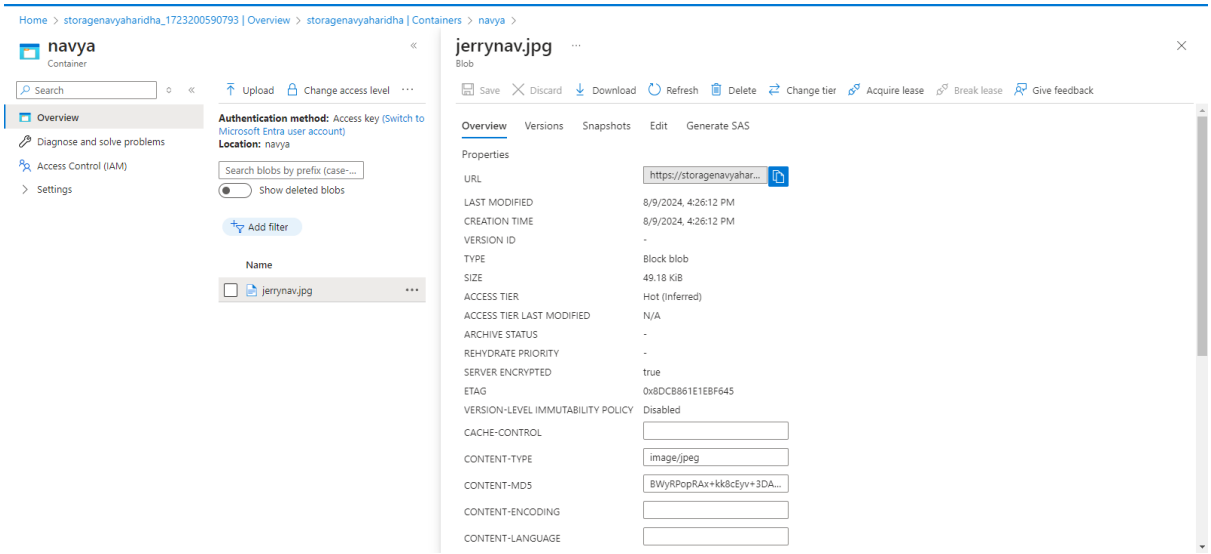
WORKING:

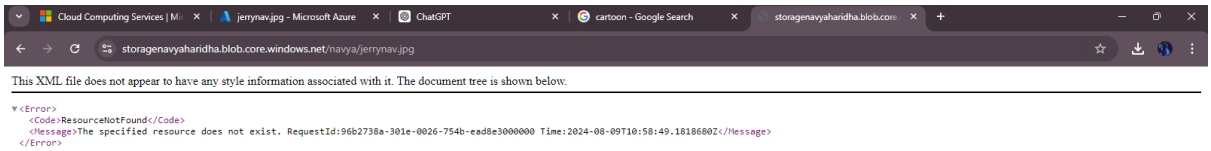


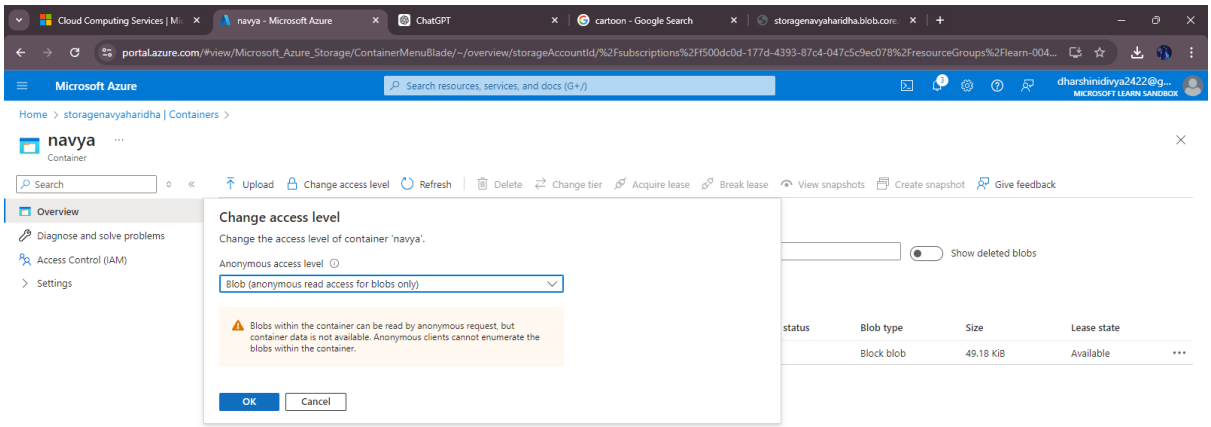


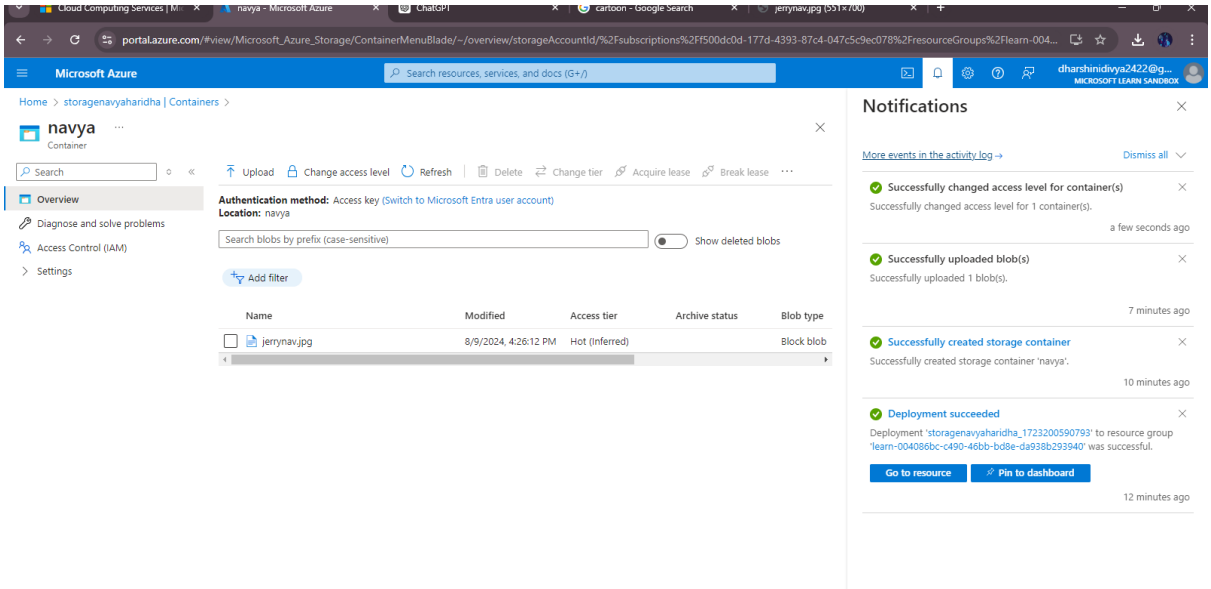

Microsoft Azure
Search resources, services, and docs (G+/)
dharshinidivya2422@g...
MICROSOFT LEARN SANDBOX
Home > storagenavyaharidha_1723200590793 | Overview > storagenavyaharidha
storagenavyaharidha | Containers
Storage account
Search
Container
Change access level
Restore containers
Refresh
Delete
Give feedback
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Storage Mover
Partner solutions
Data storage
Containers
File shares
Queues
Tables
Security + networking
Data management
Settings
Search containers by prefix
Show deleted containers
Name
Last modified
Anonymous access level
Lease state
$logs
8/9/2024, 4:20:49 PM
Private
Available
navya
8/9/2024, 4:22:49 PM
Private
Available
https://portal.azure.com/#@learn.docs.microsoft.com/resource/subscriptions/f500dc0d-177d-4393-87c4-047c5c9ec078/resourcegroups/learn-004086bc-c490-46bb-bd8e-da938b293940/providers/Microsoft.Storage/storageAccounts/storagenavyaharidha/overview
Athletics
See result
Search
ENG
IN
16:27
09-08-2024


Microsoft Azure
Search resources, services, and docs (G+/)
dharshinidivya2422@g...
MICROSOFT LEARN SANDBOX
Home > storagenavyaharidha_1723200590793 | Overview > storagenavyaharidha | Containers >
navya
Container
Search
Upload
Change access level
Refresh
Delete
Change tier
Acquire lease
Break lease
View snapshots
Create snapshot
Give feedback
Overview
Diagnose and solve problems
Access Control (IAM)
Settings
Authentication method: Access key (Switch to Microsoft Entra user account)
Location: navya
Search blobs by prefix (case-sensitive)
Show deleted blobs
Add filter
Name
Modified
Access tier
Archive status
Blob type
Size
Lease state
jerrynav.jpg
8/9/2024, 4:26:12 PM
Hot (Inferred)
Block blob
49.18 KiB
Available

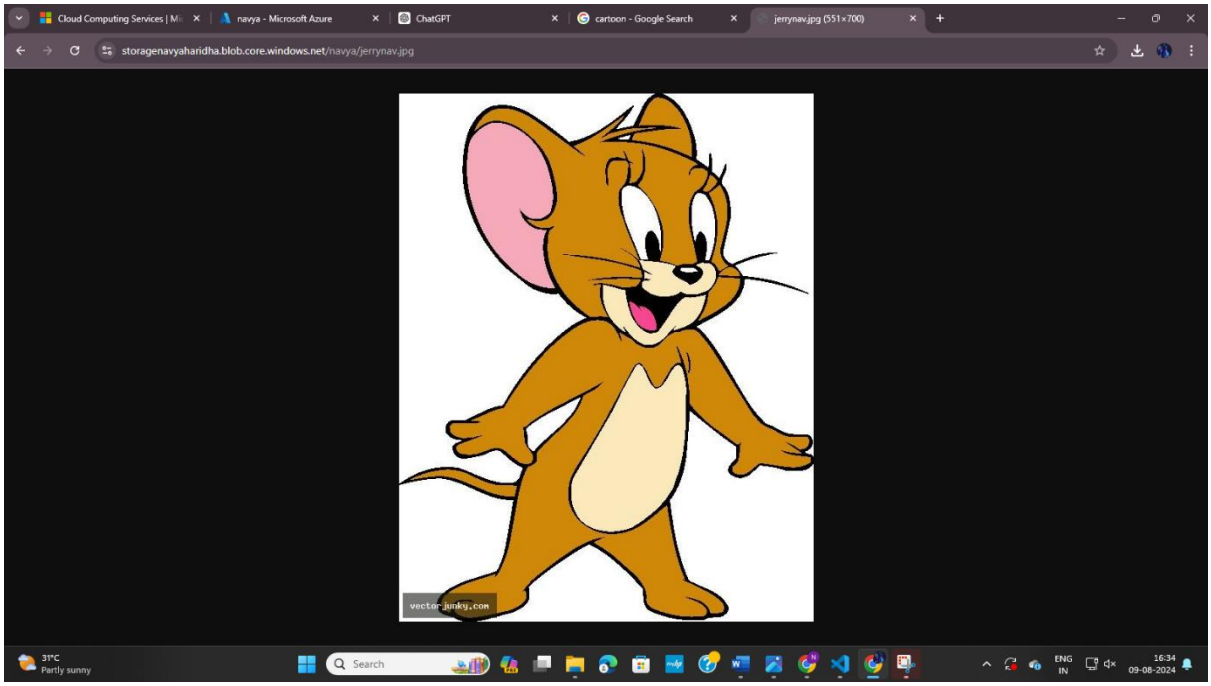

Home > storagenavyaharidha_1723200590793 | Overview > storagenavyaharidha | Containers > navya >
navya
Container
jerrynav.jpg
Blob
Save
Discard
Download
Refresh
Delete
Change tier
Acquire lease
Break lease
Give feedback
Overview
Versions
Snapshots
Edit
Generate SAS
Properties
URL
https://storagenavyahar...
LAST MODIFIED
8/9/2024, 4:26:12 PM
CREATION TIME
8/9/2024, 4:26:12 PM
VERSION ID
TYPE
Block blob
SIZE
49.18 KiB
ACCESS TIER
Hot (Inferred)
ACCESS TIER LAST MODIFIED
N/A
ARCHIVE STATUS
REHYDRATE PRIORITY
SERVER ENCRYPTED
true
ETAG
0x8DCB861E1EBF645
VERSION-LEVEL IMMUTABILITY POLICY
Disabled
CACHE-CONTROL
CONTENT-TYPE
image/jpeg
CONTENT-MD5
BWyRPopRAx+kk8cEyv+3DA...
CONTENT-ENCODING
CONTENT-LANGUAGE


Cloud Computing Services | Mi
jerrynav.jpg - Microsoft Azure
ChatGPT
cartoon - Google Search
storagenavyaharidha.blob.core
storagenavyaharidha.blob.core.windows.net/navya/jerrynav.jpg
This XML file does not appear to have any style information associated with it. The document tree is shown below.
<Error>
<Code>ResourceNotFound</Code>
<Message>The specified resource does not exist. RequestId:96b2738a-301e-0026-754b-ead8e3000000 Time:2024-08-09T10:58:49.1818680Z</Message>
</Error>


Cloud Computing Services | Mi
navya - Microsoft Azure
ChatGPT
cartoon - Google Search
storagenavyaharidha.blob.core
portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenuBlade/~/overview/storageAccountId/%2Fsubscriptions%2Ff500dc0d-177d-4393-87c4-047c5c9ec078%2FresourceGroups%2Flearn-004...
Microsoft Azure
Search resources, services, and docs (G+/)
dharshinidivya2422@g...
MICROSOFT LEARN SANDBOX
Home > storagenavyaharidha | Containers >
navya
Container
Search
Upload
Change access level
Refresh
Delete
Change tier
Acquire lease
Break lease
View snapshots
Create snapshot
Give feedback
Overview
Diagnose and solve problems
Access Control (IAM)
Settings
Change access level
Change the access level of container 'navya'.
Anonymous access level
Blob (anonymous read access for blobs only)
Blobs within the container can be read by anonymous request, but container data is not available. Anonymous clients cannot enumerate the blobs within the container.
OK
Cancel
Show deleted blobs
status
Blob type
Size
Lease state
Block blob
49.18 KiB
Available


portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenuBlade/~/overview/storageAccountId/%2Fsubscriptions%2Ff500dc0d-177d-4393-87c4-047c5c9ec078%2FresourceGroups%2Flearn-004...
Microsoft Azure
Search resources, services, and docs (G+/)
dharshinidivya2422@g...
MICROSOFT LEARN SANDBOX
Home > storagenavyaharidha | Containers >
navya
Container
Search
Upload
Change access level
Refresh
Delete
Change tier
Acquire lease
Break lease
Overview
Diagnose and solve problems
Access Control (IAM)
Settings
Authentication method: Access key (Switch to Microsoft Entra user account)
Location: navya
Search blobs by prefix (case-sensitive)
Show deleted blobs
Add filter
Name
Modified
Access tier
Archive status
Blob type
jerrynav.jpg
8/9/2024, 4:26:12 PM
Hot (Inferred)
Block blob
Notifications
More events in the activity log →
Dismiss all
Successfully changed access level for container(s)
Successfully changed access level for 1 container(s).
a few seconds ago
Successfully uploaded blob(s)
Successfully uploaded 1 blob(s).
7 minutes ago
Successfully created storage container
Successfully created storage container 'navya'.
10 minutes ago
Deployment succeeded
Deployment 'storagenavyaharidha_1723200590793' to resource group 'learn-004086bc-c490-46bb-bd8e-da938b293940' was successful.
Go to resource
Pin to dashboard
12 minutes ago

OUTPUT :


Cloud Computing Services | Mi
navya - Microsoft Azure
ChatGPT
cartoon - Google Search
jerrynav.jpg (551×700)
storagenavyaharidha.blob.core.windows.net/navya/jerrynav.jpg
vectorjunky.com
31°C
Partly sunny
Search
ENG
IN
16:34
09-08-2024

3. ESTIMATE WORKLOAD COSTS BY USING THE PRICING CALCULATOR

- Explore the Pricing calculator

  1. Go to the Pricing calculator.

  2. Notice the following tabs:

     - Products This is where you choose the Azure services that you want to include in your estimate. You'll likely spend most of your time here.

     - Example scenarios Here you'll find several *reference architectures*, or common cloud-based solutions that you can use as a starting point.

     - Saved estimates Here you'll find your previously saved estimates.

  3. Estimate your solution

- Here you add each Azure service that you need to the calculator. Then you configure each service to fit your needs.
- Tip
- Make sure you have a clean calculator with nothing listed in the estimate. You can reset the estimate by selecting the trash can icon next to each item.
- Add services to the estimate

  1. On the Products tab, select the service from each of these categories:

  2. Scroll to the bottom of the page. Each service is listed with its default configuration.

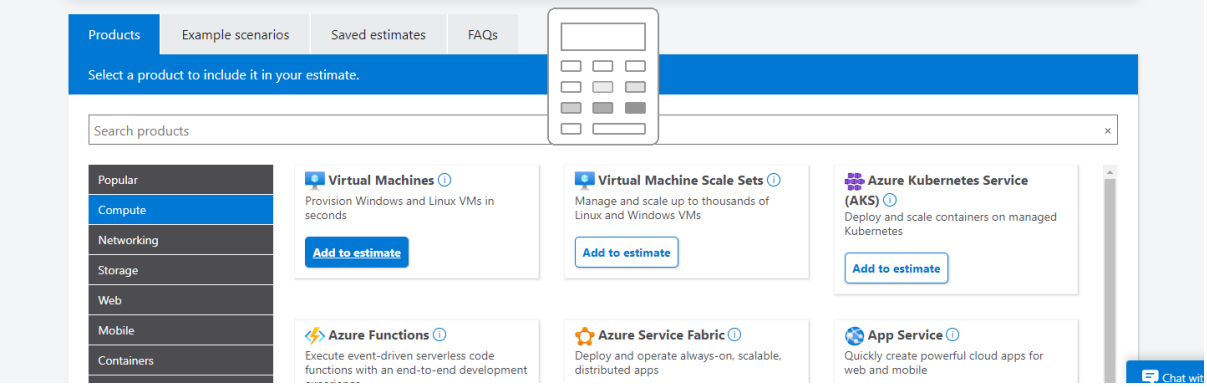
- Configure services to match your requirements:

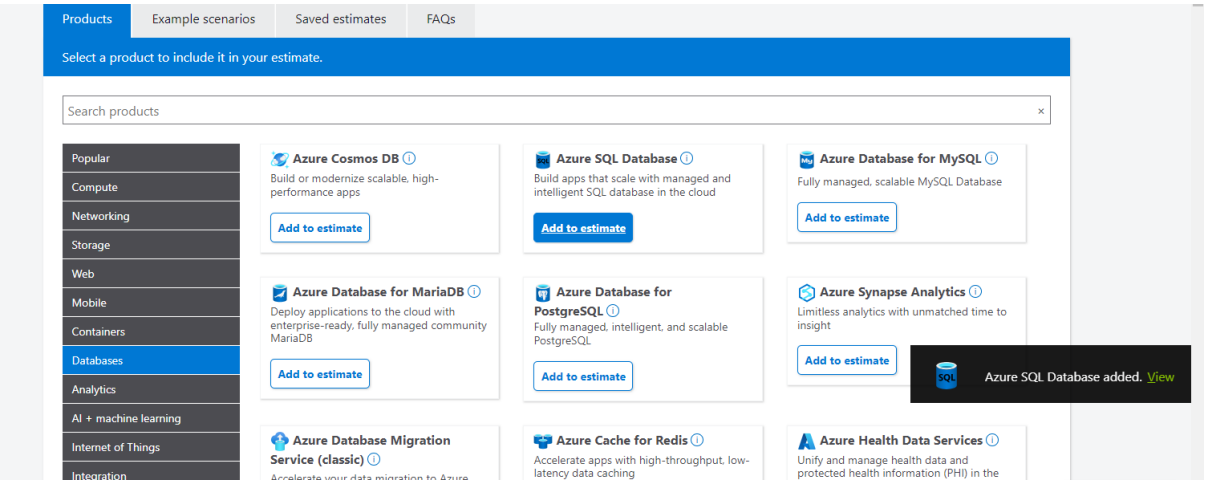
  1. Under Virtual Machines, set values.

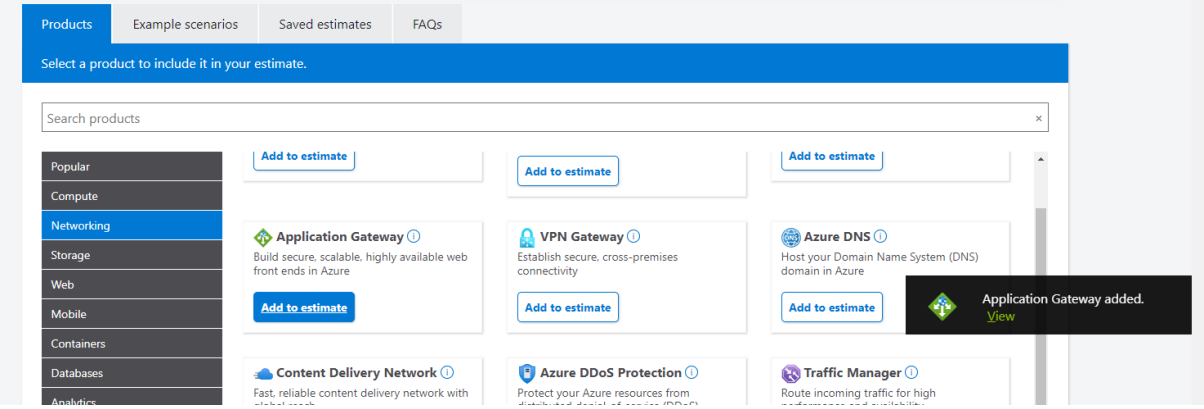
2. Under Azure SQL Database, set values.
3. Under Application Gateway, set values.

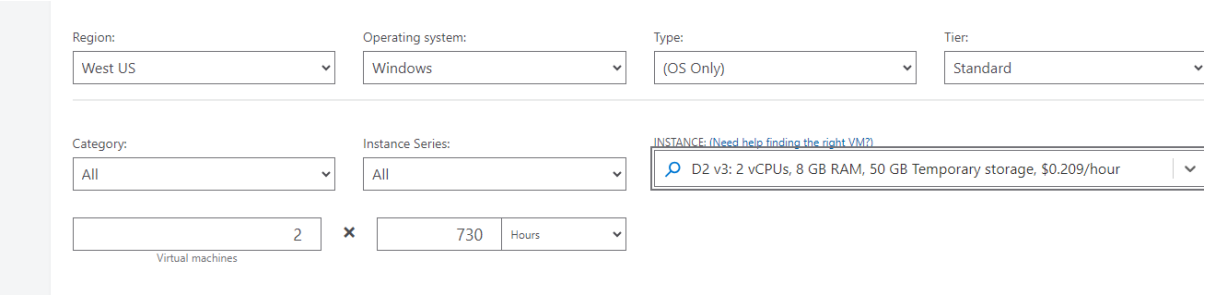
- Review, share, and save your estimate
- At the bottom of the page, you see the total estimated cost of running the solution. You can change the currency type if you want.
- At this point, you have a few options:
  - Select Export to save your estimate as an Excel document.
  - Select Save or Save as to save your estimate to the Saved Estimates tab for later.
  - Select Share to generate a URL so you can share the estimate with your team.

WORKING :




Products
Example scenarios
Saved estimates
FAQs
Select a product to include it in your estimate.
Search products
Popular
Compute
Networking
Storage
Web
Mobile
Containers
Databases
Analytics
AI + machine learning
Internet of Things
Integration
Azure Cosmos DB
Build or modernize scalable, high-performance apps
Add to estimate
Azure SQL Database
Build apps that scale with managed and intelligent SQL database in the cloud
Add to estimate
Azure Database for MySQL
Fully managed, scalable MySQL Database
Add to estimate
Azure Database for MariaDB
Deploy applications to the cloud with enterprise-ready, fully managed community MariaDB
Add to estimate
Azure Database for PostgreSQL
Fully managed, intelligent, and scalable PostgreSQL
Add to estimate
Azure Synapse Analytics
Limitless analytics with unmatched time to insight
Add to estimate
Azure SQL Database added. View
Azure Database Migration Service (classic)
Azure Cache for Redis
Accelerate apps with high-throughput, low-latency data caching
Azure Health Data Services
Unify and manage health data and protected health information (PHI) in the


Products
Example scenarios
Saved estimates
FAQs
Select a product to include it in your estimate.
Search products
Popular
Compute
Networking
Storage
Web
Mobile
Containers
Databases
Add to estimate
Application Gateway
Build secure, scalable, highly available web front ends in Azure
Add to estimate
VPN Gateway
Establish secure, cross-premises connectivity
Add to estimate
Azure DNS
Host your Domain Name System (DNS) domain in Azure
Add to estimate
Application Gateway added. View
Content Delivery Network
Azure DDoS Protection
Protect your Azure resources from
Traffic Manager
Route incoming traffic for high


Region:
West US
Operating system:
Windows
Type:
(OS Only)
Tier:
Standard
Category:
All
Instance Series:
All
INSTANCE: (Need help finding the right VM?)
D2 v3: 2 vCPUs, 8 GB RAM, 50 GB Temporary storage, $0.209/hour
2
Virtual machines
730
Hours

Azure SQL Database

Get $200 credit plus free monthly amounts of popular services for 12 months—including Azure SQL Database. See free amounts

Region:	Type:	Purchase Model:	Service Tier:
West US	Single Database	vCore	General Purpose

Compute Tier:	Hardware Type:	Instance:	Disaster Recovery:
Provisioned	Standard-series (Gen 5)	8 vCore	Primary or Geo replica

Compute

Application Gateway — Web Application Firewall tier, Medium Instance size:... — Upfront: $0.00 — M

Application Gateway

Region:	Tier:	Size:
West US	Web Application Firewall	Medium

No charge for the first 10 TB of data processed for a Medium instance.

Gateway hours

2 Instances × 730 Hours

Data processed

1 TB

Outbound Data Transfer

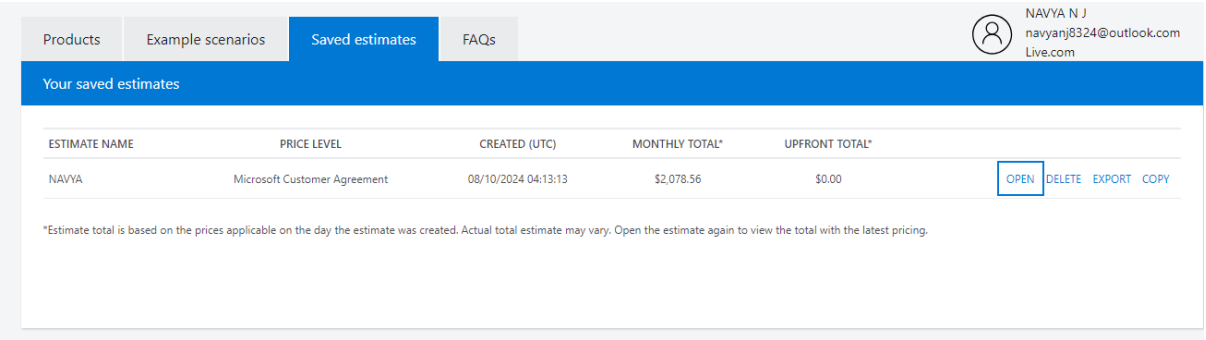
5 GB

Save estimate

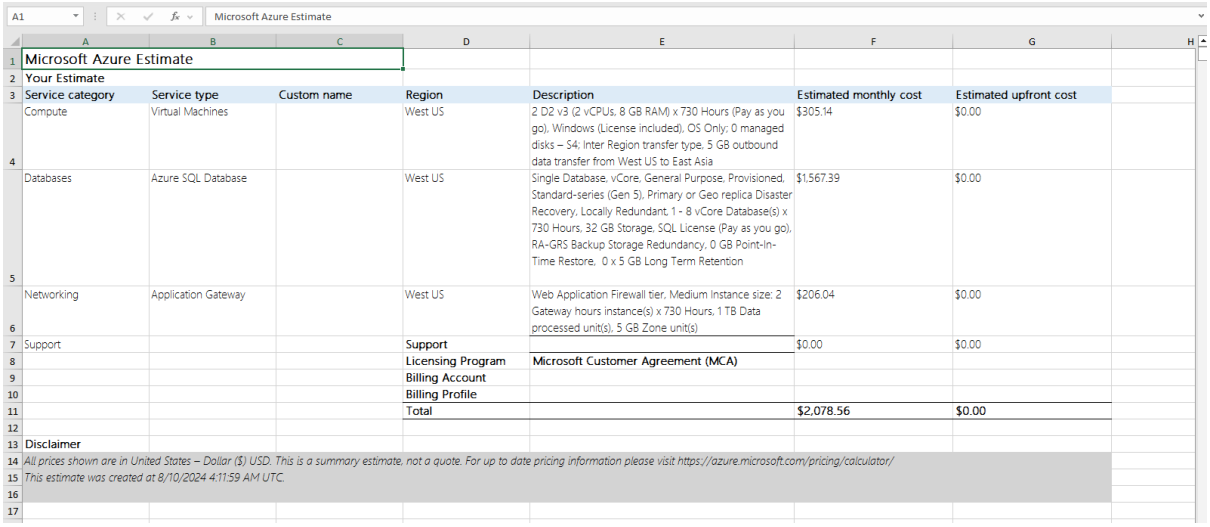
Your estimate has been saved. Click on the Saved Estimates tab to view all your saved estimates

Done

ot intended as actual price quotes. Actual pricing may vary depending on the type of agreement entered with M
ces are calculated based on US dollars and converted using London closing spot rates that are captured in the t



OUTPUT :



	A	B	C	D	E	F	G
1	Microsoft Azure Estimate						
2	Your Estimate						
3	Service category	Service type	Custom name	Region	Description	Estimated monthly cost	Estimated upfront cost
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 Backup Storage Redundancy, 0 GB Point-In-Time Restore, 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	$0.00
12							
13	Disclaimer						
14	*All prices shown are in United States – Dollar ($) USD. This is a summary estimate, not a quote. For up to date pricing information please visit https://azure.microsoft.com/pricing/calculator/*						
15	*This estimate was created at 8/10/2024 4:11:59 AM UTC.*						
16							
17							

Link : https://azure.com/e/c87ad15763e64b16aa8c3fbf3f6b713f

4. COMPARE WORKLOAD COSTS USING THE TCO CALCULATOR

- Define your workloads

Enter the specifications of your on-premises infrastructure into the TCO Calculator.

1. Go to the TCO Calculator.
2. Under **Define your workloads**, select **Add server workload** to create a row for your bank of Windows Server VMs.
3. Under **Servers**, set the value for each of these settings.
4. Select **Add server workload** to create a second row for your bank of Linux VMs. Then specify these settings.
5. Under **Storage**, select **Add storage**. Then specify these settings.
6. Under **Networking**, set **Outbound bandwidth** to **15 TB**.
7. Select **Next**.

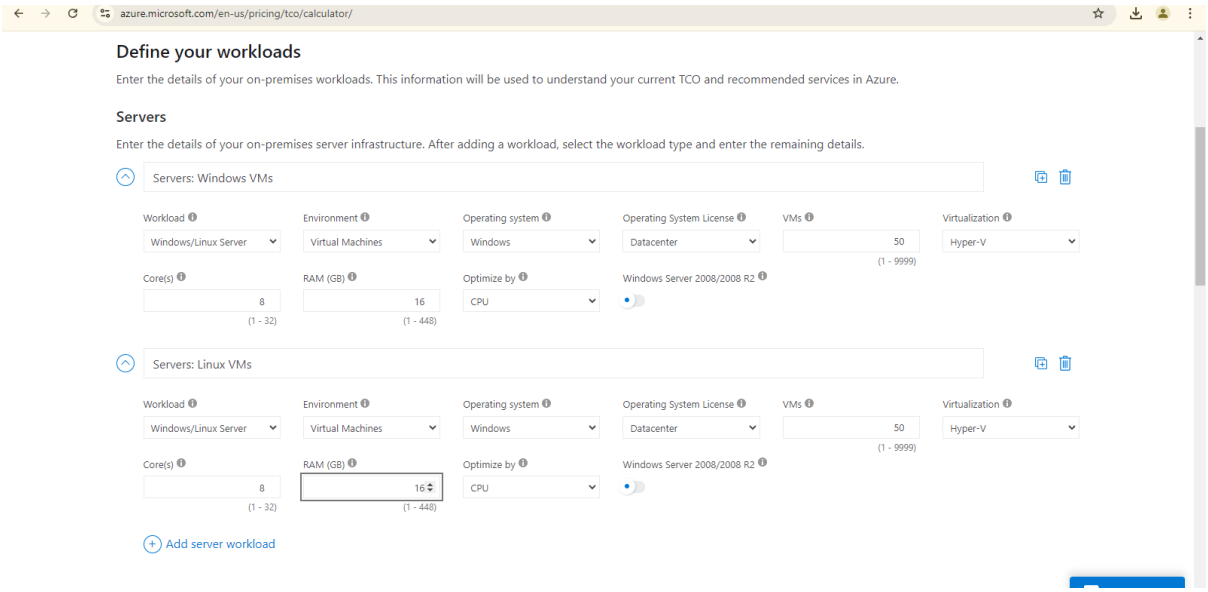
- In practice, you would adjust any cost assumptions and make any adjustments to match your current on-premises environment.
- At the top of the page, select your currency. This example uses **US Dollar ($)**.
- Select **Next**.
- **View the report**
- Take a moment to review the generated report.
- Remember, you've been tasked to investigate cost savings for your European datacenter over the next three years.

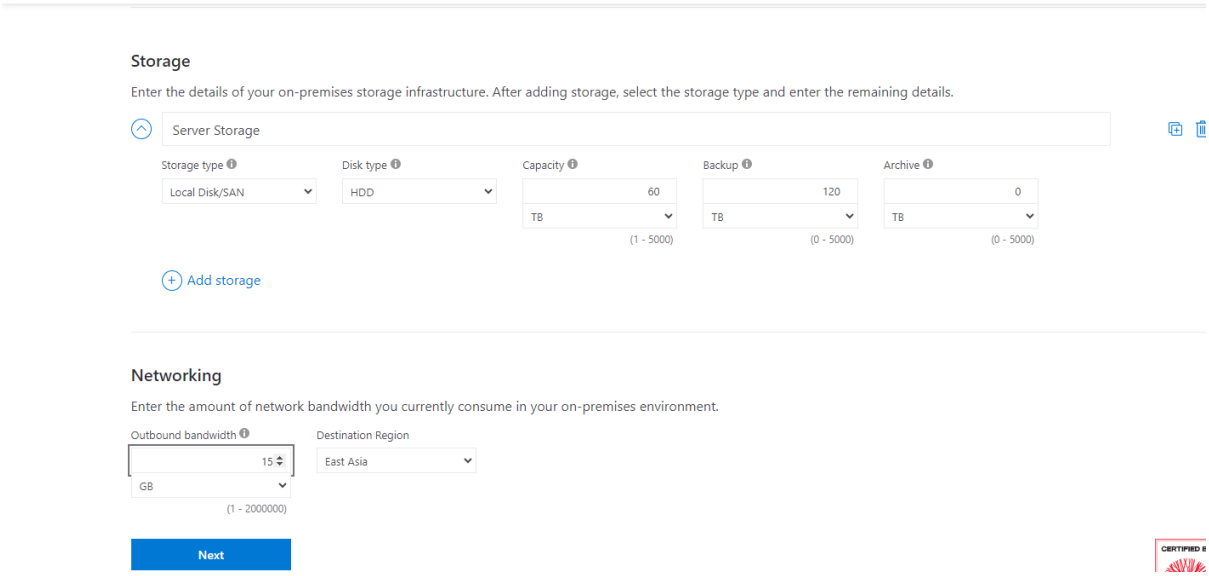
To make these adjustments:

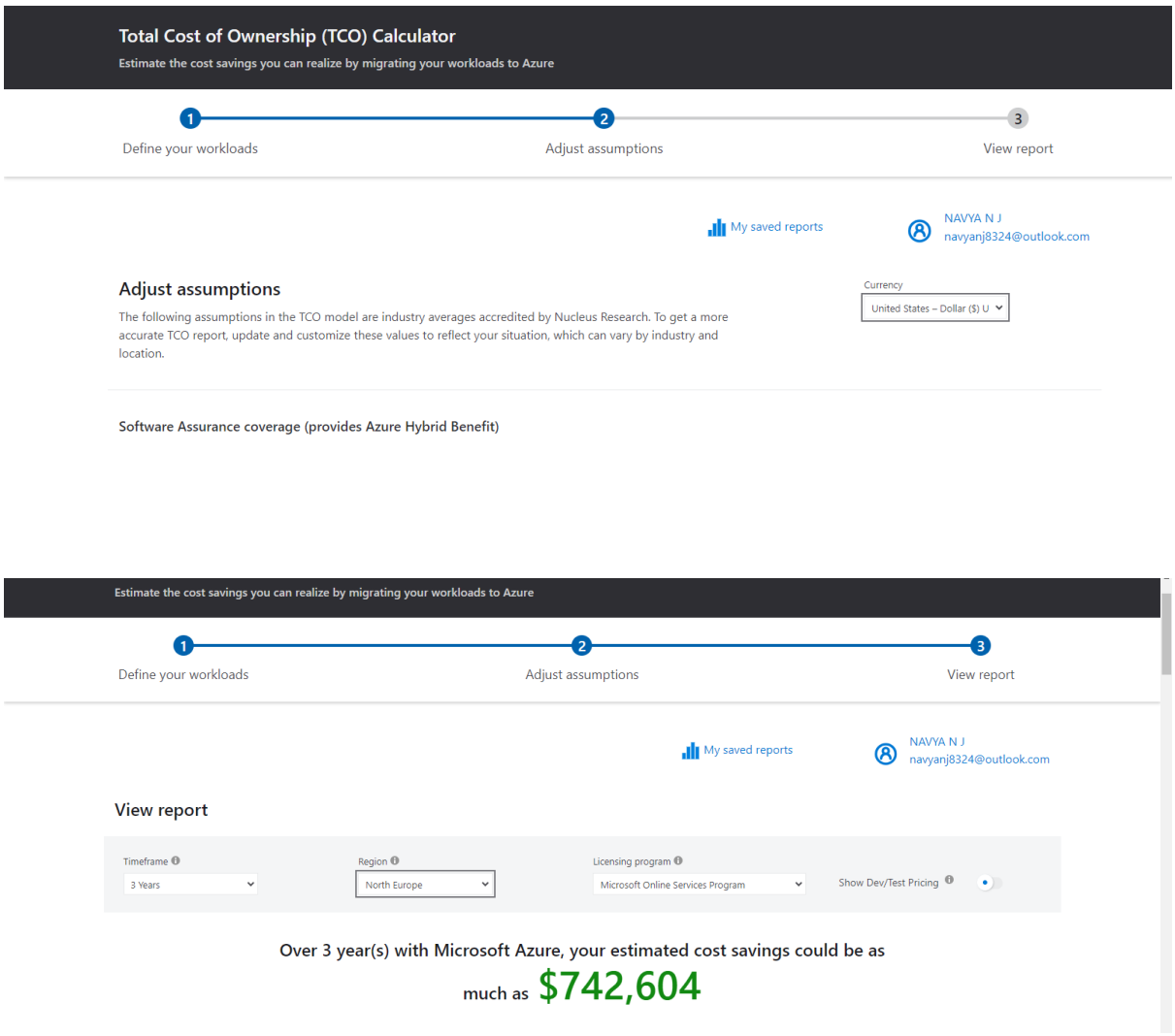
1. Set **Timeframe** to **3 Years**.
2. Set **Region** to **North Europe**.

Scroll to the summary at the bottom. You see a comparison of running your workloads in the datacenter versus on Azure.

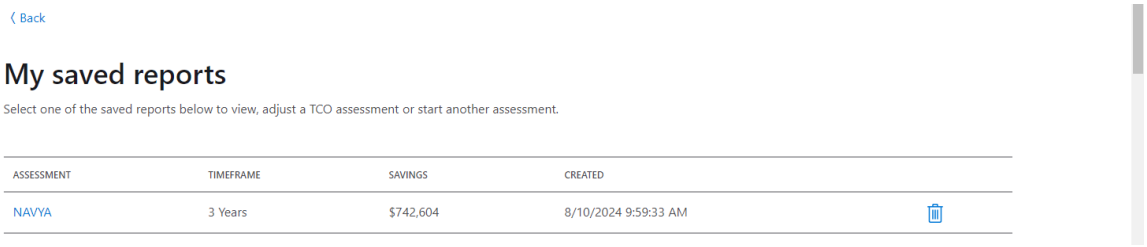
WORKING :






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
NAVYA N J
navyanj8324@outlook.com
Adjust assumptions
The following assumptions in the TCO model are industry averages accredited by Nucleus Research. To get a more accurate TCO report, update and customize these values to reflect your situation, which can vary by industry and location.
Currency
United States – Dollar ($) U
Software Assurance coverage (provides Azure Hybrid Benefit)

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
NAVYA N J
navyanj8324@outlook.com
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 $742,604


Back
My saved reports
Select one of the saved reports below to view, adjust a TCO assessment or start another assessment.
ASSESSMENT
TIMEFRAME
SAVINGS
CREATED
NAVYA
3 Years
$742,604
8/10/2024 9:59:33 AM