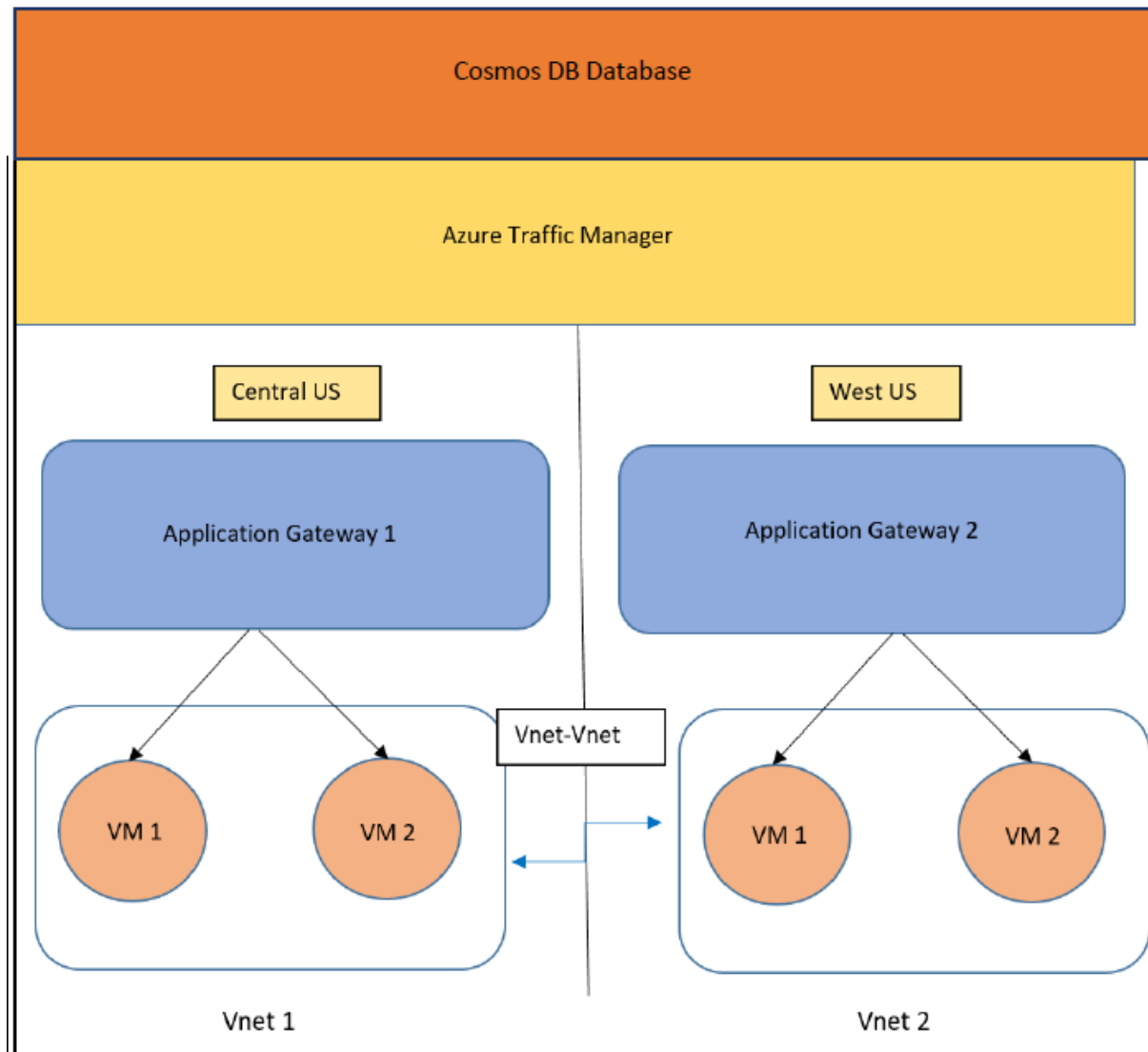


# Microsoft Azure 305 Project

You work as an Azure Admin for XYZ Corp. You are assigned the task of implementing the below architecture for the company's website.



There are three web pages to be deployed:

1. The Home page is the default page(VM2)
2. The Upload page is where you can upload the files to your Azure Blob Storage.(VM1)
3. The Error page for 403 and 502 errors

Application Gateway has to be configured in the following manner:

1. Example.com should be pointed to the Home Page.
2. Example.com/upload should be pointed to the Upload Page.

3. Application Gateway's error pages should be pointed to error.html, which should be hosted as a static website in Azure Containers. The error.html file is present in the github repository

The term 'Example' here refers to Traffic Manager's domain name.

The client wants you to deploy them in the Central US and the West US regions such that the traffic is distributed optimally between both regions.

Storage Account has to be configured in the following manner:

1. You need to host your error.html as a static website here, and then point application gateway's 403 and 502 errors to it
2. Create a container named upload, this will be used by your code to upload the files

You must also create a Cosmos DB account which will store a log of all the files that have been uploaded. Choose a primary key as required.

The account will be configured in either an SQL or Table API database format. The account must log in the Timestamp and ID for each of the file that is being uploaded.

Technical specifications for the deployments are as follows:

1. Deployments in both the regions should have VMs inside VNets.
2. Clone the github repo <https://github.com/hshar94/azproject> to all the VMs.
3. On VM1, please run vm1.sh this will deploy the upload page, on VM2 please run VM2.sh, this will install the home page.
4. For running the scripts, please run the following command inside the github directory from the terminal. VM1: ./vm1.sh VM2: ./vm2.sh
5. After running the scripts, please edit config.py file on VM1, and enter the details related to your storage account, where the files will be uploaded
6. Once done, please run the following command  
`sudo python3 app.py`
7. Both the regions should be connected to each other using, Vnet-Vnet Peering
8. Finally, your Traffic Manager should be pointing to the application gateway of both the regions.

## Virtual Networks Creation

Vnet1 created in central us

Home > vnet1-1711085658175 | Overview >

**vnet1**  
Virtual network

Search

Move Delete Refresh Give feedback

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Address space
- Connected devices
- Subnets
- Bastion
- DDoS protection

Essentials

Resource group (move)	Address space
22mar2024	10.0.0.0/16
Location (move)	DNS servers
Central US	Azure provided DNS service
Subscription (move)	Flow timeout
Pay-As-You-Go	Configure
Subscription ID	BGP community string
a0a30499-8e4f-491b-b9ff-1a61d1cc7694	Configure
Tags (edit)	Virtual network ID
Add tags	5f0b569d-a189-4b8a-a5f3-e4a9ec2f4a72

Vnet2 created in west us

**vnet2**  
Virtual network

Search

Move Delete Refresh Give feedback

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Address space
- Connected devices
- Subnets
- Bastion
- DDoS protection

Essentials

Resource group (move)	Address space
22mar2024	10.0.0.0/16
Location (move)	DNS servers
West US	Azure provided DNS service
Subscription (move)	Flow timeout
Pay-As-You-Go	Configure
Subscription ID	BGP community string
a0a30499-8e4f-491b-b9ff-1a61d1cc7694	Configure
Tags (edit)	Virtual network ID
Add tags	322d568c-d4c4-44e9-aa48-91ad65aa593f

Peering made between vnet1 and vnet2

Home > Virtual networks > vnet-1

**vnet-1 | Peerings**

Search

+ Add Refresh Sync

Filter by name...


Peering status == all

Name	Peering status	Peer	Gateway transit
vnet-1_to_vnet-2	Updating	vnet-2	Disabled

# Virtual Machines creation

Vm1 created in centralUS

Home > Virtual machines >

»  **CentralUS-Vm1**  
Virtual machine

✕

Search

«

Connect

Start

Restart

Stop

Hibernate (preview)

Capture

Delete

Refresh

Open in mobile

...

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Connect

Bastion

Networking

Network settings

Load balancing

Application security groups

Network manager

Essentials

Resource group (move)  
[22mar2024](#)

Status  
Running

Location  
Central US (Zone 2)

Subscription (move)  
[Pay-As-You-Go](#)

Subscription ID  
a0a30499-8e4f-491b-b9ff-1a61d1cc7694

Availability zone  
2

Tags (edit)  
[Add tags](#)

Operating system  
Linux (ubuntu 22.04)

Size  
Standard B1s (1 vcpu, 1 GiB memory)

Public IP address  
[20.98.128.198](#)

Virtual network/subnet  
[ynet-1/default](#)

DNS name  
[Not configured](#)

Health state  
-

JSON View

Properties

Monitoring


Capabilities (7)

Recommendations

Tutorials

Vm2 created in centralUS

Home > Virtual machines >

»  **CentralUs-Vm2**  
Virtual machine

✕

Search

«

Connect

Start

Restart

Stop

Hibernate (preview)

Capture

Delete

Refresh

Open in mobile

...

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Connect

Bastion

Networking

Network settings

Load balancing

Essentials

Resource group (move)  
[22mar2024](#)

Status  
Running

Location  
Central US (Zone 2)

Subscription (move)  
[Pay-As-You-Go](#)

Subscription ID  
a0a30499-8e4f-491b-b9ff-1a61d1cc7694

Availability zone  
2

Tags (edit)  
[Add tags](#)

Operating system  
Linux (ubuntu 22.04)

Size  
Standard B1s (1 vcpu, 1 GiB memory)

Public IP address  
[20.98.129.170](#)

Virtual network/subnet  
[ynet-1/default](#)

DNS name  
[Not configured](#)

Health state  
-

JSON View

Properties

Monitoring

Capabilities (7)

Recommendations

Tutorials

## Vm1 created in WestUS

Home > CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20240322115421 | Overview >

**WestUS-Vm1**  
Virtual machine

Search << >> Connect Start Restart Stop Hibernate (preview) Capture Delete Refresh Open in mobile Feedback

**Overview**  
Activity log  
Access control (IAM)  
Tags  
Diagnose and solve problems

**Connect**  
Connect  
Bastion

**Networking**  
Network settings  
Load balancing  
Application security groups  
Network manager

**Essentials** [JSON View](#)

Resource group <a href="#">(move)</a> <a href="#">22mar2024</a>	Operating system Linux (ubuntu 22.04)
Status Running	Size Standard B1s (1 vcpu, 1 GiB memory)
Location West US	Public IP address <a href="#">52.160.67.72</a>
Subscription <a href="#">(move)</a> <a href="#">Pay-As-You-Go</a>	Virtual network/subnet <a href="#">vnet-2/default</a>
Subscription ID a0a30499-8e4f-491b-b9ff-1a61d1cc7694	DNS name <a href="#">Not configured</a>
	Health state -

[Tags \(edit\)](#)  
[Add tags](#)

**Properties** Monitoring Capabilities (7) Recommendations Tutorials

## Vm2 created in WestUS

Home > Virtual machines >

**WestUS-Vm2**  
Virtual machine

Search << >> Connect Start Restart Stop Hibernate (preview) Capture Delete Refresh Open in mobile ...

**Overview**  
Activity log  
Access control (IAM)  
Tags  
Diagnose and solve problems

**Connect**  
Connect  
Bastion

**Networking**  
Network settings

**Essentials** [JSON View](#)

Resource group <a href="#">(move)</a> <a href="#">22mar2024</a>	Operating system Linux (ubuntu 22.04)
Status Running	Size Standard B1s (1 vcpu, 1 GiB memory)
Location West US	Public IP address <a href="#">13.93.201.157</a>
Subscription <a href="#">(move)</a> <a href="#">Pay-As-You-Go</a>	Virtual network/subnet <a href="#">vnet-2/default</a>
Subscription ID a0a30499-8e4f-491b-b9ff-1a61d1cc7694	DNS name <a href="#">Not configured</a>
	Health state -

[Tags \(edit\)](#)

## VM configuration to host homepage and upload page

Logged into VM1

```
venkat@CentralUS-Vm1: ~  
login as: venkat  
venkat@20.98.128.198's password:  
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1016-azure x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/pro  
  
System information as of Fri Mar 22 06:30:09 UTC 2024  
  
System load:  0.0          Processes:            99  
Usage of /:   5.1% of 28.89GB Users logged in:      0  
Memory usage: 31%         IPv4 address for eth0: 10.0.0.4  
Swap usage:   0%  
  
Expanded Security Maintenance for Applications is not enabled.  
  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
venkat@CentralUS-Vm1:~$
```

Shell script created to install git and clone git repo

```
venkat@CentralUS-Vm1: ~  
sudo apt update  
sudo apt install git  
sudo yum install git  
git clone https://github.com/hshar94/azproject  
bash git.sh
```

## Shell script executed

```
venkat@CentralUS-Vml:~$ vi git.sh
venkat@CentralUS-Vml:~$ vi git.sh
venkat@CentralUS-Vml:~$ bash git.sh
Get:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
Get:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Hit:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease
Get:5 http://azure.archive.ubuntu.com/ubuntu jammy/main amd64 Packages [1395 kB]
Get:6 http://azure.archive.ubuntu.com/ubuntu jammy/main Translation-en [510 kB]
Get:7 http://azure.archive.ubuntu.com/ubuntu jammy/main amd64 c-n-f Metadata [30.3 kB]
Get:8 http://azure.archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [129 kB]
Get:9 http://azure.archive.ubuntu.com/ubuntu jammy/restricted Translation-en [18.6 kB]
Get:10 http://azure.archive.ubuntu.com/ubuntu jammy/restricted amd64 c-n-f Metadata [488 B]
Get:11 http://azure.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:12 http://azure.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:13 http://azure.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:14 http://azure.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:15 http://azure.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]

Get:35 http://azure.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:36 http://azure.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Fetched 28.1 MB in 4s (6424 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
15 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-1ubuntu1.10).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 15 not upgraded.
sudo: yum: command not found
Cloning into 'azproject'...
remote: Enumerating objects: 147, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 147 (delta 9), reused 6 (delta 6), pack-reused 133
Receiving objects: 100% (147/147), 30.80 KiB | 927.00 KiB/s, done.
Resolving deltas: 100% (63/63), done.
venkat@CentralUS-Vml:~$
```

Listed the files in the repo cloned to VM1

And executed the VM1.sh shell script

```
venkat@CentralUS-Vml:~$ ls
azproject  git.sh
venkat@CentralUS-Vml:~$ cd azproject
venkat@CentralUS-Vml:~/azproject$ ls
README.md app.py config.py error.html index.html templates vml.sh vm2.sh
venkat@CentralUS-Vml:~/azproject$ bash vml.sh
Rules updated
Rules updated (v6)
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
Building dependency tree... Done
Reading state information... Done
python3 is already the newest version (3.10.6-1~22.04).
python3 set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 15 not upgraded.
```

No containers need to be restarted.

No user sessions are running outdated binaries.

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
Defaulting to user installation because normal site-packages is not writeable
Collecting azure.storage
  Downloading azure-storage-0.37.0.zip (4.3 kB)
  Preparing metadata (setup.py) ... error
error: subprocess-exited-with-error

* python setup.py egg_info did not run successfully.
| exit code: 1
|> [20 lines of output]
|   Traceback (most recent call last):
|     File "<string>", line 2, in <module>
|     File "<pip-setuptools-caller>", line 34, in <module>
|     File "/tmp/pip-install-rlufml4n/azure-storage_b24ea72601d74c74b1b42e40a95a9889/setup.py", line 55, in <module>
|       raise RuntimeError(message)
|     RuntimeError:
|
| Starting with v0.37.0, the 'azure-storage' meta-package is deprecated and cannot be installed anymore.
| Please install the service specific packages prefixed by 'azure' needed for your application.
|
| The complete list of available packages can be found at:
| https://aka.ms/azsdk/python/all
|
| Here's a non-exhaustive list of common packages:
|
| - [azure-storage-blob] (https://pypi.org/project/azure-storage-blob) : Blob storage client
```

Starting with v0.37.0, the 'azure-storage' meta-package is deprecated and cannot be installed anymore. Please install the service specific packages prefixed by 'azure' needed for your application.

The complete list of available packages can be found at:  
<https://aka.ms/azsdk/python/all>

Here's a non-exhaustive list of common packages:

- [azure-storage-blob] (<https://pypi.org/project/azure-storage-blob>) : Blob storage client

```
- [azure-storage-blob] (https://pypi.org/project/azure-storage-blob) : Blob storage client
- [azure-storage-file-share] (https://pypi.org/project/azure-storage-file-share) : Storage file share client
- [azure-storage-file-datalake] (https://pypi.org/project/azure-storage-file-datalake) : ADLS Gen2 client
- [azure-storage-queue] (https://pypi.org/project/azure-storage-queue) : Queue storage client
```

[end of output]

**note:** This error originates from a subprocess, and is likely not a problem with pip.  
**error:** metadata-generation-failed

\* Encountered error while generating package metadata.  
(-> See above for output.

**note:** This is an issue with the package mentioned above, not pip.  
**hint:** See above for details.

Defaulting to user installation because normal site-packages is not writeable  
Collecting configparser

Downloading configparser-6.0.1-py3-none-any.whl (19 kB)

Installing collected packages: configparser

Successfully installed configparser-6.0.1

Defaulting to user installation because normal site-packages is not writeable  
Collecting flask

Downloading flask-3.0.2-py3-none-any.whl (101 kB)

----- 101.3/101.3 KB 2.7 MB/s eta 0:00:00

Collecting Werkzeug>=3.0.0

Downloading Werkzeug-3.0.1-py3-none-any.whl (226 kB)

----- 226.7/226.7 KB 9.6 MB/s eta 0:00:00

Collecting click>=8.1.3

Downloading click-8.1.7-py3-none-any.whl (97 kB)

----- 97.9/97.9 KB 11.0 MB/s eta 0:00:00

Collecting blinker>=1.6.2

Downloading blinker-1.7.0-py3-none-any.whl (13 kB)

Collecting itsdangerous>=2.1.2

Downloading itsdangerous-2.1.2-py3-none-any.whl (15 kB)

Collecting Jinja2>=3.1.2

Downloading Jinja2-3.1.3-py3-none-any.whl (133 kB)

----- 133.2/133.2 KB 12.2 MB/s eta 0:00:00

Requirement already satisfied: MarkupSafe>=2.0 in /usr/lib/python3/dist-packages (from Jinja2>=3.1.2->flask) (2.0.1)

Collecting MarkupSafe>=2.0

Downloading MarkupSafe-2.1.5-cp310-cp310-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl (25 kB)

Installing collected packages: MarkupSafe, itsdangerous, click, blinker, Werkzeug, Jinja2, flask

**WARNING:** The script flask is installed in '/home/venkat/.local/bin' which is not on PATH.

Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.

Successfully installed Jinja2-3.1.3 MarkupSafe-2.1.5 Werkzeug-3.0.1 blinker-1.7.0 click-8.1.7 flask-3.0.2 itsdangerous-2.1.2

venkat@CentralUS-Vml:~/azproject\$



Then logged into the CentralUSVm2

```
venkat@CentralUs-Vm2: ~/azproject
venkat@CentralUs-Vm2:~$ login as: venkat
venkat@20.98.129.170's password:
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1016-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Fri Mar 22 07:05:33 UTC 2024

System load:  0.0               Processes:    102
Usage of /:   5.1% of 28.89GB   Users logged in: 0
Memory usage: 31%              IPv4 address for eth0: 10.0.0.5
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

16 updates can be applied immediately.
9 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

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
```

Git is installed and git repo is cloned to vm

```
venkat@CentralUs-Vm2: ~/azproject
venkat@CentralUs-Vm2:~$ vi git.sh
venkat@CentralUs-Vm2:~$ cat git.sh
sudo apt update
sudo apt install git
sudo yum install git
git clone https://github.com/hshar94/azproject

venkat@CentralUs-Vm2:~$ bash git.sh
Get:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
Get:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Hit:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease
Get:34 http://azure.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.2 kB]
Get:35 http://azure.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:36 http://azure.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Fetched 28.1 MB in 5s (5910 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
15 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-1ubuntu1.10).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 15 not upgraded.
sudo: yum: command not found
Cloning into 'azproject'...
remote: Enumerating objects: 147, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 147 (delta 9), reused 6 (delta 6), pack-reused 133
Receiving objects: 100% (147/147), 30.80 KiB | 618.00 KiB/s, done.
Resolving deltas: 100% (63/63), done.
```

Then VM2.sh shell script is executed

```
venkat@CentralUs-Vm2:~$ ls
azproject  git.sh
venkat@CentralUs-Vm2:~$ cd azproject
venkat@CentralUs-Vm2:~/azproject$ ls
README.md  app.py  config.py  error.html  index.html  templates  vml.sh  vm2.sh
venkat@CentralUs-Vm2:~/azproject$ bash vm2.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
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser bzip2-doc
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support
  ssl-cert
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36.1-4ubuntu0.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.6) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

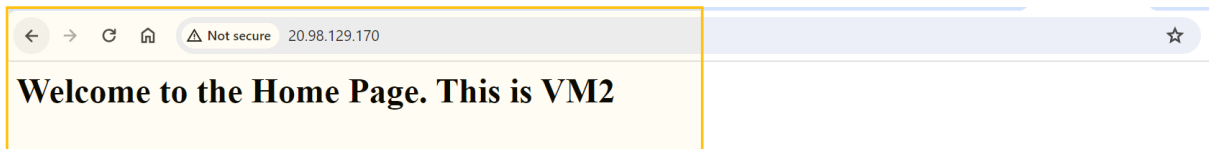
No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
venkat@CentralUs-Vm2:~/azproject$
```

Accessed CentralUSVm2 on the web portal



Next, logged into the WestUSVm1

```
venkat@WestUS-Vm1: ~/azproject
login as: venkat
venkat@52.160.67.72's password:
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1016-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Fri Mar 22 07:13:26 UTC 2024

System load:  0.0           Processes:      108
Usage of /:   5.1% of 28.89GB Users logged in:  0
Memory usage: 35%          IPv4 address for eth0: 10.0.1.4
Swap usage:   0%

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
  just raised the bar for easy, resilient and secure K8s cluster deployment.

  https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.
```

Git is installed and git repo is cloned to vm

```
venkat@WestUS-Vml:~$ ls
venkat@WestUS-Vml:~$ vi git.sh
venkat@WestUS-Vml:~$ cat git.sh
sudo apt update
sudo apt install git
sudo yum install git
git clone https://github.com/hshar94/azproject

venkat@WestUS-Vml:~$ bash git.sh
Reading package lists... Done
E: Could not get lock /var/lib/apt/lists/lock. It is held by process 2910 (apt-get)
N: Be aware that removing the lock file is not a solution and may break your system.
E: Unable to lock directory /var/lib/apt/lists/
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-lubuntu1.10).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
sudo: yum: command not found
```

Then Vm1.sh shellScript is executed

```
venkat@WestUS-Vml:~$ ls
azproject git.sh
venkat@WestUS-Vml:~$ cd azproject
venkat@WestUS-Vml:~/azproject$ ls
README.md app.py config.py error.html index.html templates vm1.sh vm2.sh
venkat@WestUS-Vml:~/azproject$ bash vm1.sh
Rules updated
Rules updated (v6)
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
python3 is already the newest version (3.10.6-1~22.04).
```

```
note: This error originates from a subprocess, and is likely not a problem with pip.
error: metadata-generation-failed

* Encountered error while generating package metadata.
(-> See above for output.

note: This is an issue with the package mentioned above, not pip.
hint: See above for details.
Defaulting to user installation because normal site-packages is not writeable
Collecting configparser
  Downloading configparser-6.0.1-py3-none-any.whl (19 kB)
Installing collected packages: configparser
Successfully installed configparser-6.0.1
Defaulting to user installation because normal site-packages is not writeable
Collecting flask
  Downloading flask-3.0.2-py3-none-any.whl (101 kB)
----- 101.3/101.3 KB 2.5 MB/s eta 0:00:00
Collecting click>=8.1.3
  Downloading click-8.1.7-py3-none-any.whl (97 kB)
----- 97.9/97.9 KB 5.6 MB/s eta 0:00:00
Collecting blinker>=1.6.2
  Downloading blinker-1.7.0-py3-none-any.whl (13 kB)
Collecting itsdangerous>=2.1.2
  Downloading itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Collecting Jinja2>=3.1.2
  Downloading Jinja2-3.1.3-py3-none-any.whl (133 kB)
----- 133.2/133.2 KB 17.6 MB/s eta 0:00:00
Collecting Werkzeug>=3.0.0
  Downloading werkzeug-3.0.1-py3-none-any.whl (226 kB)
----- 226.7/226.7 KB 18.7 MB/s eta 0:00:00
Requirement already satisfied: MarkupSafe>=2.0 in /usr/lib/python3/dist-packages (from Jinja2>=3.1.2->flask) (2.0.1)
Collecting MarkupSafe>=2.0
  Downloading MarkupSafe-2.1.5-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (25 kB)
Installing collected packages: MarkupSafe, itsdangerous, Click, blinker, Werkzeug, Jinja2, flask
WARNING: The script flask is installed in '/home/venkat/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed Jinja2-3.1.3 MarkupSafe-2.1.5 Werkzeug-3.0.1 blinker-1.7.0 click-8.1.7 flask-3.0.2 itsdangerous-2.1.2
```

Then logged in to the WestUSVm2

```
venkat@WestUS-Vm2: /var/www/html
login as: venkat
venkat@13.93.201.157's password:
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1016-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Fri Mar 22 07:37:37 UTC 2024

System load:  0.080078125      Processes:            103
Usage of /:   5.1% of 28.89GB   Users logged in:      0
Memory usage: 32%              IPv4 address for eth0: 10.0.1.5
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

16 updates can be applied immediately.
9 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
```

Git is installed and git repo is cloned to vm

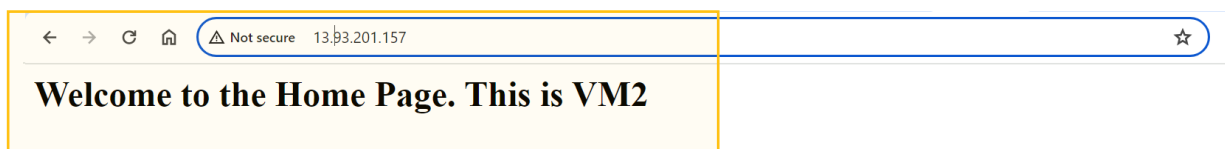
```
venkat@WestUS-Vm2:~$ vi git.sh
venkat@WestUS-Vm2:~$ cat git.sh
sudo apt update
sudo apt install git
sudo yum install git
git clone https://github.com/hshar94/azproject

venkat@WestUS-Vm2:~$ bash git.sh
Get:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
Get:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Hit:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease
Get:5 http://azure.archive.ubuntu.com/ubuntu jammy/main amd64 Packages [1395 kB]
Get:6 http://azure.archive.ubuntu.com/ubuntu jammy/main Translation-en [510 kB]
```

Then VM2.sh shell script is executed

```
venkat@WestUS-Vm2:~$ ls
azproject  git.sh
venkat@WestUS-Vm2:~$ cd azproject
venkat@WestUS-Vm2:~/azproject$ ls
README.md  app.py  config.py  error.html  index.html  templates  vml.sh  vm2.sh
venkat@WestUS-Vm2:~/azproject$ bash vm2.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
```

Accessed CentralUSVm2 on the web portal



# Storage Account Configuration

An storage account is created

Home > 22mar24storageaccount\_1711100258869 | Overview >

22mar24storageaccount

Storage account

Search

«

Upload

Open in Explorer

Delete

Move

Refresh

Open in mobile

CLI / PS

Feedback

Overview

Essentials

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Data storage

Containers

Resource group (move)

22mar2024

Location

canadacentral

Subscription (move)

Pay-As-You-Go

Subscription ID

a0a30499-8e4f-491b-b9ff-1a61d1cc7694

Disk state

Available

Tags (edit)

Add tags

Performance

Standard

Replication

Locally-redundant storage (LRS)

Account kind

StorageV2 (general purpose v2)

Provisioning state

Succeeded

Created

3/22/2024, 3:08:31 PM

An container is created to store the files uploaded on upload page

Home > 22mar24storageaccount

22mar24storageaccount | 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

Search containers by prefix

Show deleted containers

Name	Last modified	Anonymous access level	Lease state	
<input type="checkbox"/> \$logs	3/22/2024, 3:09:07 PM	Private	Available	...
<input type="checkbox"/> \$web	3/22/2024, 3:10:41 PM	Private	Available	...
<input type="checkbox"/> upload	3/22/2024, 4:01:35 PM	Private	Available	...

# CosmosDB setup

An Cosmos DB account is created with Table API

Home > Azure Cosmos DB >

## Create an Azure Cosmos DB account

To start, select the API to create a new account. The API selection cannot be changed after account creation.

### Azure Cosmos DB for NoSQL

Azure Cosmos DB's core, or native API for working with documents. Supports fast, flexible development with familiar SQL query language and client libraries for .NET, JavaScript, Python, and Java.

Create Learn more

### Azure Cosmos DB for PostgreSQL

Fully-managed relational database service for PostgreSQL with distributed query execution, powered by the Citus open source extension. Build new apps on single or multi-node clusters—with support for JSONB, geospatial, rich indexing, and high-performance scale-out.

Create Learn more

### Azure Cosmos DB for MongoDB

Fully managed database service for apps written for MongoDB. Recommended if you have existing MongoDB workloads that you plan to migrate to Azure Cosmos DB.

Create Learn more

### Azure Cosmos DB for Apache Cassandra

Fully managed Cassandra database service for apps written for Apache Cassandra. Recommended if you have existing Cassandra workloads that you plan to migrate to Azure Cosmos DB.

Create Learn more

### Azure Cosmos DB for Table

Fully managed database service for apps written for Azure Table storage. Recommended if you have existing Azure Table storage workloads that you plan to migrate to Azure Cosmos DB.

Create Learn more

### Azure Cosmos DB for Apache Gremlin

Fully managed graph database service using the Gremlin query language, based on Apache TinkerPop project. Recommended for new workloads that need to store relationships between data.

Create Learn more

Home > Azure Cosmos DB >

## Create Azure Cosmos DB Account - Azure Cosmos DB for Table

Account Name \* 22mar24cosmosdb ✓

Configure availability zone settings for your account. You cannot change these settings once the account is created.

Availability Zones ○ Enable ☒ Disable

Location \* ○ (Canada) Canada Central ✓

Available locations are determined by your subscription's access and availability zone support (if that is enabled). If you don't see or cannot select your desired location, please open a support request for region access.  
[Click here for more details on how to create a region access request](#)

Capacity mode ○ ☒ Provisioned throughput ☐ Serverless  
[Learn more about capacity mode](#)

With Azure Cosmos DB free tier, you will get the first 1000 RU/s and 25 GB of storage for free in an account. You can enable free tier on up to one account per subscription. Estimated \$64/month discount per account.

Apply Free Tier Discount ☒ Apply ☐ Do Not Apply

Limit total account throughput ☐ Limit the total amount of throughput that can be provisioned on this account

[Review + create](#) [Previous](#) [Next: Global Distribution](#) [Feedback](#)

Home > Microsoft.Azure.CosmosDB-202403322160621 | Overview >

### 22mar24cosmosdb

Azure Cosmos DB account

Search

[+ Add Table](#) [Refresh](#) [Move](#) [Data Explorer](#) [Delete Account](#) [Feedback](#)

[Overview](#)

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Quick start
- Notifications
- Data Explorer

**Settings**

- Features
- Default consistency
- Point In Time Restore

**Essentials**

Status Online

Resource group [\(move\)](#) 22mar2024

Subscription [\(move\)](#) [Pay-As-You-Go](#)

Subscription ID a0a30499-8e4f-491b-b9ff-1a61d1cc7694

Backup policy Continuous (7 days)

**Read Locations** Canada Central

**Write Locations** Canada Central

**Azure Table Endpoint** <https://22mar24cosmosdb.table.cosmos.azure.com:443/>

**Capacity mode** Serverless

**Tables**

Looks like you don't have any tables yet. [Data Explorer](#)


**Monitoring**

Show data for last 1 hour 24 hours 7 days 30 days

[JSON View](#)

Navigated to connection strings of cosmos DB and copied Endpoint and primary key

Home > Azure Cosmos DB > 22mar24cosmosdb

»  **22mar24cosmosdb** | Connection strings ☆ ⋮

Azure Cosmos DB account

Search

«

»

Refresh

Feedback

Notifications

Data Explorer

Settings

Features

Default consistency

Point In Time Restore

Networking

Connection strings

Advisor Recommendations

Identity

Locks

ACCOUNT NAME

22mar24cosmosdb

ENDPOINT

https://22mar24cosmosdb.table.cosmos.azure.com:443/

Read-write Keys Read-only Keys

PRIMARY KEY

tmnODGKPaj5MkhBPoVTdXjD4ugxhMmD1uRgtLMBypmDRq0nXHnAyLEGphKoMRdU8Xp1Gwo0mxCnCACDbFnyb2A==

Last regenerated: 3/22/2024 (0 days ago). [Learn more](#)

SECONDARY KEY

\*\*\*\*\*

Last regenerated: 3/22/2024 (0 days ago). [Learn more](#)

## Updating config.py file in VM1 servers

Then navigated into the CentralUS vm1 and configured the config.py file with the storage account and cosmos DB account details so that the application can store files to SA and logs to Cosmos DB account

```
venkat@CentralUS-Vm1: ~/azproject
[DEFAULT]
# Account name
account =22mar24storageaccount
# Azure Storage account access key
key =INgMykJiIMiYjBZL+SRjdlN/xvylhNS27KaRqtYUGp707hb4bWeUlc8LPKbPLIjgGVTcz5B/Whz+AstwW2xvQ==
# Container name
container =upload

# Cosmos DB configuration
cosmos_account_uri = https://22mar24cosmosdb.table.cosmos.azure.com:443/
cosmos_account_key = tmnODGKPaj5MkhBPoVTdXjD4ugxhMmDluRgtLMBypmDRq0nXHnAyLEGphKoMRdU8Xp1Gwo0mxCnCACDbFnyb2A==
cosmos_database_name = TablesDB
cosmos_container_name = logsTable
~
~
~
```

Then ran the command `sudo python3 app.py`

```
venkat@CentralUS-Vm1: ~/azproject
venkat@CentralUS-Vm1:~/azproject$ vi config.py
venkat@CentralUS-Vm1:~/azproject$ cat config.py
[DEFAULT]
# Account name
account =22mar24storageaccount
# Azure Storage account access key
key =INgMykJiIMiYjBZL+SRjdlN/xvylhNS27KaRqtYUGp707hb4bWeUlc8LPKbPLIjgGVTcz5B/Whz+AstwW2xvQ==
# Container name
container =upload

# Cosmos DB configuration
cosmos_account_uri = https://22mar24cosmosdb.table.cosmos.azure.com:443/
cosmos_account_key = tmnODGKPaj5MkhBPoVTdXjD4ugxhMmDluRgtLMBypmDRq0nXHnAyLEGphKoMRdU8Xp1Gwo0mxCnCACDbFnyb2A==
cosmos_database_name = TablesDB
cosmos_container_name = logsTable
venkat@CentralUS-Vm1:~/azproject$ sudo python3 app.py
Traceback (most recent call last):
  File "app.py", line 6, in <module>
    from flask import Flask, request, redirect, url_for, render_template
ModuleNotFoundError: No module named 'flask'
```

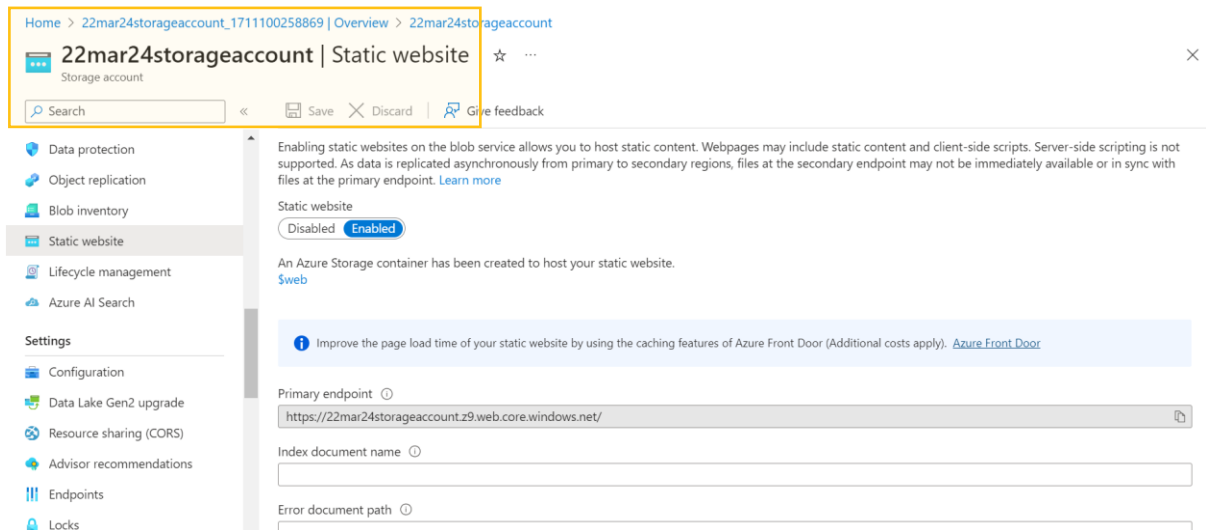
Similarly same steps repeated in the WestUS vm1 also

```
venkat@WestUS-Vm1:~/azproject$ vi config.py
venkat@WestUS-Vm1:~/azproject$ sudo python3 app.py
Traceback (most recent call last):
  File "app.py", line 6, in <module>
    from flask import Flask, request, redirect, url_for, render_template
ModuleNotFoundError: No module named 'flask'
venkat@WestUS-Vm1:~/azproject$
```

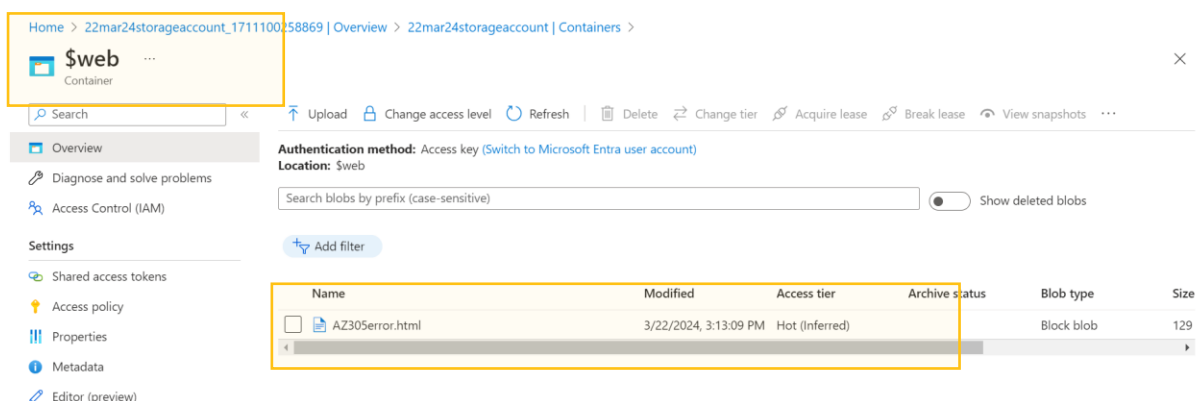


## Static Website Hosting

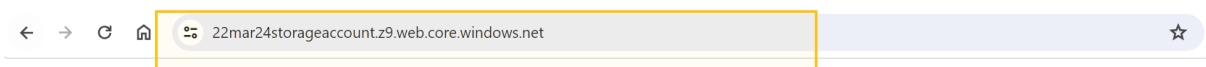
Then navigated to the SA and enabled static website which resulted in creating a container \$web



Navigated into the container \$web and stored the error.html file collected from github



Finally accessed the error page through the primary end point of static website



**The requested content does not exist.**


- HttpStatusCode: 404
- ErrorCode: WebContentNotFound
- RequestId : 28767179-c01e-0034-2c3d-7cf979000000
- TimeStamp : 2024-03-22T09:44:52.1421697Z

## Application Gateways configuration

Then created an application gateway in CentralUS region

[Home](#) > [Load balancing](#) | [Application Gateway](#) >

### Create application gateway

 Changes you make on this tab may affect any configuration you've done on other tabs. Review all options prior to creating the application gateway.

Subscription \* ⓘ  
Pay-As-You-Go

Resource group \* ⓘ  
22mar2024  
[Create new](#)

**Instance details**

Application gateway name \*  
CentralUSAppgateway ✓

Region \*  
Central US ✓

Tier ⓘ  
Standard V2 ✓

Enable autoscaling  
☐ Yes ☒ No

Instance count \*  
2 ✓


Previous

Next : Frontends >

CentralUS vm1 and Central Us vm2 are provided as backend pools

[Home](#) > [Load balancing](#) | [Application Gateway](#) >

### Create application gateway

 Changes you make on this tab may affect any configuration you've done on other tabs. Review all options prior to creating the application gateway.

✓ Basics

✓ Frontends

✓ **Backends**

④ Configuration

⑤ Tags

⑥ Review + create

A backend pool is a collection of resources to which your application gateway can send traffic. A backend pool can contain virtual machines, virtual machine scale sets, app services, IP addresses, or fully qualified domain names (FQDN). ⓘ

[Add a backend pool](#)

Backend pool	Targets	
CentralUS-Vm1	> 1 target	...
CentralUs-Vm2	> 1 target	...

Routing rule is configured

Home > Load balancing | Application Gateway >

Create application gateway

✓ Basics

✓ Frontends

✓ Backends

4 Configuration

Create routing rules that link your frontend(s) and backend(s). You can

Frontends

+ Add a frontend IP

Public: (new) centralusappgateway

Previous

Next: Tags >

Add a routing rule

Priority \* 1000

\* Listener Backend targets

A listener "listens" on a specified port and IP address for traffic that uses a specified protocol. If the listener criteria are met, the application gateway will apply this routing rule.

Listener name \* listener1

Frontend IP \* Public

Protocol HTTP HTTPS

Port \* 80

Listener type Basic Multi site

Custom error pages

Show customized error pages for different response codes generated by Application Gateway. This section lets you configure listener-specific error pages. [Learn more](#)

Bad Gateway - 502 https://22mar24storageaccount.z9.web.core.windows.net/AZ305error.html

Forbidden - 403 https://22mar24storageaccount.z9.web.core.windows.net/AZ305error.html

Add

Cancel

Path based rules added as /\* directs to VM2 and /upload/\* directs to Vm1

Home > Load balancing | Application Gateway >

Create application gateway

✓ Basics

✓ Frontends

✓ Backends

4 Configuration

Create routing rules that link your frontend(s) and backend(s). You can

Frontends

+ Add a frontend IP

Public: (new) centralusappgateway

Previous

Next: Tags >

Add a routing rule

\* Listener Backend targets

Choose a backend pool to which this routing rule will send traffic. You will also need to specify a set of Backend settings that define the behavior of the routing rule.

Target type Backend pool Redirection

CentralUS-Vm1

Backend target \* BEsettings

Backend settings \* BEsettings

Path-based routing

You can route traffic from this rule's listener to different backend targets based on the URL path of the request. You can also apply a different set of Backend settings based on the URL path.

Path	Target name	Backend setting name	Backend pool
/*	CentralUS-Vm2	BEsettings	CentralUs-Vm2
/upload/*	CentralUS-Vm1	BEsettings	CentralUS-Vm1

Add

Cancel

Home > Load balancing | Application Gateway >

Create application gateway

✓ Basics

✓ Frontends

✓ Backends

4 Configuration

5 Tags

6 Review + create

Create routing rules that link your frontend(s) and backend(s). You can also add more backend pools, add a second frontend IP configuration if you haven't already, or edit previous configurations.

Frontends

+ Add a frontend IP

Public: (new) centralusappgateway

Routing rules

+ Add a routing rule

rule1

Manage Backend settings

Backend pools

+ Add a backend pool

CentralUS-Vm1

CentralUs-Vm2

Previous

Next: Tags >

CentralUS appgateway is created, IP address is copied

Home > Microsoft.ApplicationGateway-20240322152658 | Overview > 22mar2024 >

CentralUSappgateway

Application gateway

Search

Delete Refresh Feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Configuration

Web application firewall

Backend pools

Backend settings

Frontend IP configurations

Private link

SSL settings

Essentials

Resource group (move)  
22mar2024

Location  
Central US (Zone 1, 2, 3)

Subscription (move)  
Pay-As-You-Go

Subscription ID  
a0a30499-8e4f-491b-b9ff-1a61d1cc7694

Tags (edit)  
Add tags

Virtual network/subnet  
vnet-1/default2

Frontend public IP address  
172.169.44.3 (CentralUSappgateway)

Frontend private IP address  
-

Tier  
Standard V2

Availability zone  
1, 2, 3

Show data for last

1 hour

6 hours

12 hours

1 day

7 days

30 days

Sum Total Requests

Sum Failed Requests

Centralusappgateway/ directs to the vm2 home page

← → ↺ 🏠 ⚠ Not secure 172.169.44.3

☆

Welcome to the Home Page. This is VM2

Centralusappgateway/upload/ directs to the VM1

← → ↺ 🏠 ⚠ Not secure 172.169.44.3/upload/\*

☆

Application Gateway errors!

This is a static page

Similarly another appgateway is created for WestUS region

[Home](#) > [Load balancing | Application Gateway](#) >

Create application gateway ...

Subscription \* ⓘ

Pay-As-You-Go

Resource group \* ⓘ

22mar2024

Create new

Instance details

Application gateway name \*

WestUSappgateway

✓

Region \*

West US

▼

Tier ⓘ

Standard V2

▼

Enable autoscaling

☐ Yes

☒ No

Instance count \*

2

Availability zone ⓘ

None

▼

HTTP2 ⓘ

☐ Disabled

☒ Enabled

Previous

Next : Frontends >

[Home](#) > [Load balancing | Application Gateway](#) >

Create application gateway ...

✓ Basics

2 Frontends

3 Backends

4 Configuration

5 Tags

6 Review + create

Traffic enters the application gateway via its frontend IP address(es). An application gateway can use a public IP address, private IP address, or one of each type. ⓘ

Frontend IP address type ⓘ

☒ Public

☐ Private

☐ Both

Public IP address \*

(New) WesTUSappgateway

▼

Add new

Previous

Next : Backends >

✓ Basics ✓ Frontends ✓ **Backends** ④ Configuration ⑤ Tags ⑥ Review + create

A backend pool is a collection of resources to which your application gateway can send traffic. A backend pool can contain virtual machines, virtual machine scale sets, app services, IP addresses, or fully qualified domain names (FQDN). [↗](#)

[Add a backend pool](#)

Backend pool	Targets	
Vm1	> 1 target	...
vm2	> 1 target	...

Previous

Next : Configuration >

[Home](#) > [Load balancing](#) | [Application Gateway](#) >

## Create application gateway ...

×

✓ Basics ✓ Frontends ✓ Backends ④ **Configuration** ⑤ Tags ⑥ Review + create

Create routing rules that link your frontend(s) and backend(s). You can also add more backend pools, add a second frontend IP configuration if you haven't already, or edit previous configurations. [↗](#)



### Frontends

+ Add a frontend IP

Public: (new) WestUSappgateway



### Routing rules

+ Add a routing rule

westusule

[Manage Backend settings](#)



### Backend pools

+ Add a backend pool

Vm1

vm2



Previous

Next : Tags >

← → ↻ 🏠 ⚠ Not secure 13.93.208.229



# Welcome to the Home Page. This is VM2

← → ↻ 🏠 ⚠ Not secure 13.93.208.229/upload/\*



## Application Gateway errors!

This is a static page

## Traffic Manager Configuration

- Then a traffic manager is created to balance the traffic to both the CentralUS and WestUS regions

Home > Load balancing | Traffic Manager >

### Create Traffic Manager profile

Name \*  
22mar24trafficmanager ✓  
.trafficmanager.net

Routing method  
Performance

Subscription \*  
Pay-As-You-Go

Resource group \*  
22mar2024  
[Create new](#)

Resource group location ⓘ  
Canada Central

[Create](#) [Automation options](#)

Home >

### 22mar24trafficmanager

Traffic Manager profile

Search

Enable profile Disable profile Refresh Move Delete profile

Overview

Activity log  
Access control (IAM)  
Tags  
Diagnose and solve problems

Settings

Configuration  
Real user measurements  
Traffic view  
Endpoints  
Properties  
Locks

Essentials

Resource group (move)  
[22mar2024](#)

Status  
Enabled

Subscription (move)  
[Pay-As-You-Go](#)

Subscription ID  
a0a30499-8e4f-491b-b9ff-1a61d1cc7694

Tags (edit)  
[Add tags](#)

DNS name  
http://22mar24trafficmanager.trafficmanager.net

Monitor status  
Inactive

Routing method  
Performance

JSON View

Search endpoints

Name	↑↓	Status	↑↓	Monitor status	↑↓	Type	↑↓	Location	↑↓
No results.									

- Added application gateways as end points of traffic manager

Home > Load balancing | Traffic Manager > 22mar24trafficmanager

### 22mar24trafficmanager | Endpoints

Traffic Manager profile

Search

+ Add Refresh

Search endpoints

Name ↑↓	Status ↑↓	Monitor
No results.		

**Add endpoint**

22mar24trafficmanager

Type \*

Azure endpoint

Name \*

centralusappgateway ✓

Enable Endpoint

☒

Target resource type

Public IP address

Public IP address \*

CentralUSappgateway (172.169.44.3)

Custom Header settings

Configure in this format, host:contoso.com,customheader:contoso

Do NOT input sensitive customer data in this field (i.e. APIkeys, Secrets, and Auth tokens etc.).

Submit & Configuration

Add

Home > Load balancing | Traffic Manager > 22mar24trafficmanager

### 22mar24trafficmanager | Endpoints

Traffic Manager profile

Search

+ Add Refresh

Search endpoints

Name ↑↓	Status ↑↓	Monitor status ↑↓	Type ↑↓	Location ↑↓	
centralusappgateway	Enabled	Checking endpoint	Azure endpoint	Central US	...
westusappgateway	Enabled	Checking endpoint	Azure endpoint	West US	...

- Accessing vm through the traffic manager

← → ↻ 🏠 ⚠ Not secure 22mar24trafficmanager.trafficmanager.net ☆

**Welcome to the Home Page. This is VM2**