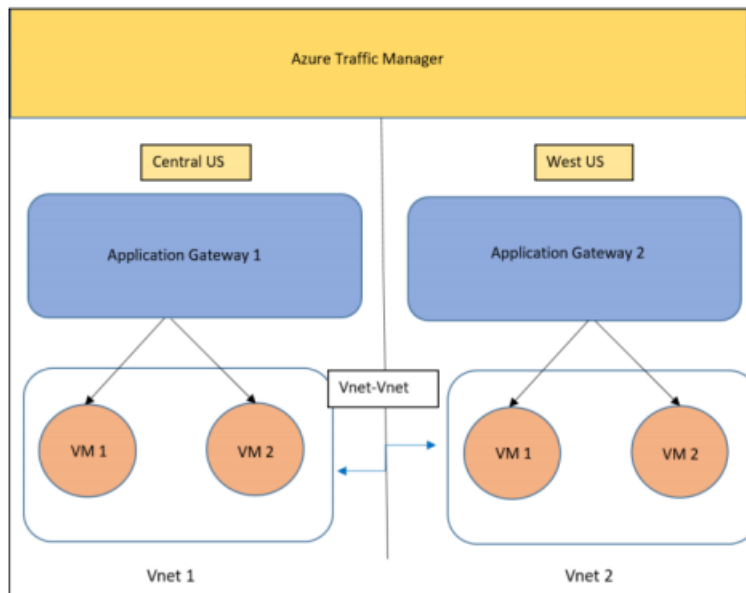


You work as an Azure professional for a Corporation. You are assigned the task of implementing the below architecture for the company's website.



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 the 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 the 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.

Technical specifications for the deployments are as follows:

1. Deployments in both regions should have VMs inside VNets.
2. Clone the GitHub repo <https://github.com/azcloudberg/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 the 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 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.

Microsoft Azure | Upgrade | Search resources, services, and docs (G+I)

Home >

Virtual machines

Default Directory (Shanawazkhan683@gmail.onmicrosoft.com)

+ Create | Switch to classic | Reservations | Manage view | Refresh | Export to CSV | Open query | Assign tags | Start | Restart | Stop | Delete | Services | Maintenance

Filter for any field... | Subscription equals all | Type equals all | Resource group equals all | Location equals all | Add filter

Showing 1 to 4 of 4 records. | No grouping | List view

Name	Type	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disks
vm1	Virtual machine	Free Trial	projectrg	East US	Running	Linux	Standard_B1s	20.25.30.223	1
vm2	Virtual machine	Free Trial	projectrg	East US	Running	Linux	Standard_B1s	4.227.197.141	1
vm3	Virtual machine	Free Trial	projectrg	West US	Running	Linux	Standard_B1s	104.45.239.70	1
vm4	Virtual machine	Free Trial	projectrg	West US	Running	Linux	Standard_B1s	138.91.155.104	1

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Microsoft Azure

Upgrade

Search resources, services, and docs (G+I)

ShanawazKhan683@gmail...
DEFAULT DIRECTORY (SHANAWAZK...)

Home >

Storage accounts

Default Directory (ShanawazKhan683@gmail.onmicrosoft.com)

Create

Restore

Manage view

Refresh

Export to CSV

Open query

Assign tags

Delete

Filter for any field...

Subscription equals all

Resource group equals all

Location equals all

Add filter

Showing 1 to 1 of 1 records.

No grouping

List view

Name

Type

Kind

Resource group

Location

Subscription

projectcaps

Storage account

StorageV2

projectrg

East US

Free Trial

Microsoft Azure

Upgrade

Search resources, services, and docs (G+I)

ShanawazKhan683@gmail...
DEFAULT DIRECTORY (SHANAWAZK...)

Home > Storage accounts > projectcaps

Storage accounts

Default Directory (ShanawazKhan683@gmail.onmicr...

Create

Restore

...

Filter for any field...

Name

projectcaps

projectcaps | Containers

Storage account

Search

+ Container

Change access level

Restore containers

Refresh

Delete

Give feedback

Search containers by prefix

Show deleted containers

Name

Last modified

Anonymous access level

Lease state

☐

\$logs

9/19/2023, 11:06:18 AM

Private

Available

...

☐

upload

9/19/2023, 11:11:08 AM

Container

Available

...

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Data storage

Containers

File shares

Queues

Tables

Security + networking

Networking

Front Door and CDN

Page 1 of 1

Microsoft Azure

Upgrade

Search resources, services, and docs (G+I)

ShanawazKhan683@gmail...
DEFAULT DIRECTORY (SHANAWAZK...)

Home > Storage accounts > projectcaps | Static website >

Sweb

Container

Search

Upload

Change access level

Refresh

Delete

Change tier

Acquire lease

Break lease

View snapshots

Create snapshot

Give feedback

Authentication method: Access key (Switch to Azure AD User Account)

Location: Sweb

Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

Name

Modified

Access tier

Archive status

Blob type

Size

Lease state

☐

error.html

9/19/2023, 11:19:19 AM

Hot (Inferred)

Block blob

30.27 KiB

Available

...

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

Editor (preview)

Microsoft Azure

Upgrade

Search resources, services, and docs (G+)

Shanawaz Khan633@gmail.com

DEFAULT DIRECTORY SHANAWAZ KHAN

Home > Load balancing | Application Gateway >

Create application gateway

Basics

Frontends

Backends

Configuration

Tags

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) ag2ip2

...

Routing rules

+ Add a routing rule

rule2

Manage Backend settings

...

Backend pools

+ Add a backend pool

pool3

pool4

...

<https://portal.azure.com/#blade/Microsoft.Azure.ActivityLog/ActivityLogBlade/queryInputs/%7B%22user%3A%40me%22%7D>

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > Load balancing

Load balancing | Application Gateway

Search

Overview

Load Balancing Services

- Application Gateway
- Front Door and CDN profiles
- Load Balancer
- Traffic Manager

Showing 1 to 2 of 2 records.

Name	Public IP	Private IP	Resource group	Location	Subscription
AG1	52.188.170...	-	projectrg	East US	Free Trial
Ag2	20.245.103...	-	projectrg	West US	Free Trial

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Give feedback

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > Load balancing

Load balancing | Traffic Manager

Search

Overview

Load Balancing Services

- Application Gateway
- Front Door and CDN profiles
- Load Balancer
- Traffic Manager

Showing 1 to 1 of 1 records.

Name	Status	Routing	Resource group	Subscription
projecttrafficmanager683	Enabled	Performance	projectrg	Free Trial

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Give feedback

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > Load balancing > Traffic Manager > projecttrafficmanager683

projecttrafficmanager683 | Endpoints

Search endpoints

Name	Status	Monitor status	Type	Location
ep1	Enabled	Checking endpoint	Azure endpoint	East US
ep2	Enabled	Checking endpoint	Azure endpoint	West US

Settings

- Configuration
- Real user measurements
- Traffic view
- Endpoints
- Properties
- Locks

Monitoring

- Alerts
- Metrics
- Diagnostic settings
- Logs

