**Azure Administrator Capstone Project AZ-104**

1. Create a virtual network in Central US region which will host 2 VMs and an application gateway1.
2. Create 2 subnets in this virtual network, one for deploying VMs and another for application gateway.

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1. Create another Virtual network in West US region
2. Create 2 subnets that will have VMs and application gateway2

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1. Create 4 virtual machines, 2 in VNET1 and the other 2 in VNET2

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1. Create VM2 with the same configuration.

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1. Create VM3 and VM4 in West US region inside VNET2.

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1. Create VM4 with the same configuration.

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1. Create a new storage account as below.

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1. 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. Download error.html and save it locally.
2. Go to the newly created storage account and select static website and enable it.

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1. Go to container $web and upload the error.html file and verify the error page using primary endpoint

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1. Create 2 application gateways for VNet1 and VNet2

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1. Create another application gateway for VNET2

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1. Configure DNS name for the application gateways.

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1. Create a traffic manager profile to distribute traffic equally

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1. Create 2 endpoints for centralUS and WestUS as below.

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1. Create another endpoint for westUS

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1. Launch all 4 Virtual machines and update the machines using sudo apt-get update

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1. Clone the git repository in all the VMs – git clone <https://github.com/azcloudberg/azproject.git>

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1. Go inside azproject folder and run ./vm1.sh and ./vm2.sh on all 4 machines respectively

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1. Now edit the config.py file and enter details such as account name and key details from the storage account access keys section.

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1. Do the same on VM3 (this is where upload page is configured)

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1. Create a container named upload on the storage account.

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1. Run the following command – sudo python3 app.py on VM1 and VM3

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1. Go to traffic manager profile and copy DNS name and paste it in browser.

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1. Create VNet-to-VNet peering. Go to centralus-vnet and choose peering option

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1. Verify the peering connection using ping command from VM1 to VM3

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1. Copy the DNS name of traffic manager profile followed by /upload and paste in browser.

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1. Verify the file uploaded in storage account.

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1. Also verified the error page after the application is stopped.

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