**Microsoft Azure Assignment**

Ques. Create a Network Security Group. The resource should follow the naming convention “YourName-HU19-ResourceName”. Tag your resource { Key:Value || Name:YourName-HU19-ResourceName }.

1. SSH ( Port 22 ) with source as your IP Address
2. HTTP ( Port 80 ) with source as your IP Address

Ans.

Graphical user interface, text, application, email

Description automatically generated

Ques. Create a Virtual Machine. The resource should follow the naming convention “YourName-HU19-ResourceName-A”. It should have the following configurations :

1. Image : Ubuntu 18.04
2. Size : Standard\_B1s
3. Authentication Type : Password
4. Username : Your Name
5. VM should be launched into the existing VNet.
6. Pass a cloud-init script that installs and starts the service apache2.

Ans.

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated with medium confidence

Ques. Create a Virtual Machine Scale Set. The resource should follow the naming convention “YourName-HU19-ResourceName-B”. It should have the following configurations :

1. Image : Ubuntu 18.04
2. Size : Standard\_B1s
3. Authentication Type : Password
4. Username : YourName
5. VM should be launched into the previously created VNet.
6. Enable boot diagnostics through a Custom Storage account with the naming convention “yournamehu19”.
7. Initial Count : 3 , Minimum Count : 1 and Maximum Count 5
8. Pass a cloud-init script that installs and starts the service nginx.
9. Create an autoscaling rule that would scale up when CPU% goes above 70 and scale down when the CPU% goes below 70.

Ans.

Graphical user interface, text, application, email

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Graphical user interface, text, application, email

Description automatically generated

Ques. Create a Private Load Balancer. The resource should follow the naming convention “YourName-HU19-ResourceName”. Tag your resource { Key:Value || Name:YourNameHU19-ResourceName}. It must serve traffic to the previously created Virtual Machine Scale Set on Port 80. Configure the Load Balancer accordingly

Ans.

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Graphical user interface, application

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Ques. In the previously created Storage Account , Create an Container and should follow the naming convention “YourName-HU19-ResourceName”. Push Your Assignment document into the container.

Ans.

Graphical user interface, text, application, email

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Description automatically generated

Ques. Create a SQL server (first) and then an SQL Database in the same SQL server. Tag your resource { Key:Value || Name:YourName-HU19-ResourceName }

1. For SQL Server - Use SQL Authentication
2. For DB, Compute+Storage – Basic
3. For DB, Backup Redundancy – Local

Ans.

Graphical user interface, text, application, email

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Ques. Enable Azure Monitor for the VM that you had created earlier. Tag your resource { Key:Value || Name:YourName-HU19-ResourceName } Create the following alerts –

1. Raise an alert when VM CPU% goes above 70%
2. Raise an alert when SQL DTU% goes above 70%

Ans.

Graphical user interface, text, application

Description automatically generated

#########Azure CLI Commands##########

az storage account create --name ujjjhahu19azcli --resource-group AZRG-USE2-CON-NPDHASHEDINAZUREINTERNALPOC-NPD-002 --location eastus --sku Standard\_GRS --encryption-services blob

az storage container create --account-name ujjjhahu19azcli --name ujjjhahu19containercli --auth-mode login

touch helloujjwal

az storage blob upload --account-name ujjjhahu19azcli --container-name ujjjhahu19containercli --name helloujjwal --file helloujjwal --auth-mode key

az storage blob list --account-name ujjjhahu19azcli --container-name ujjjhahu19containercli --output table --auth-mode key

az storage blob download --account-name ujjjhahu19azcli --container-name ujjjhahu19containercli --name helloujjwal --file /home/usa-ujjjha/download\_helloujjwal --auth-mode key

az storage container delete --account-name ujjjhahu19azcli --name ujjjhahu19containercli --auth-mode login

az storage account delete --name ujjjhahu19azcli