**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

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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, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

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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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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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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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

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#########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