Clouds Course

Assignment 1 Deliverable

Name:

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1. Create a free Azure account

Did you run into any problems with creating an Azure account?

Your answer: Yes, my credit card was getting declined while I was creating my account.

2. Deploy a website on Virtual Machine

What is the VM instance type you used? How many cores and memory does it have?

Your answer: Linux ubuntu 20.04 of x86_64 architecture; (2 vcpus, 7 GiB memory); 2 cores per socket.

What is the size of the virtual disk used by the VM? What type is it?

Your answer: 30 GiB Size; Storage type: Standard SSD LRS

What is the public ip address of the VM where we can access your site?

Your answer: 20.199.12.41

3. Provision disks in VM and measure IOPS

What VM type did you resize to? What is the difference in spec between this type and the one you used before?

Your answer: Standard D2s v3 was resized to Standard DS2 v2

- > Standard D2s v3 has MaxDataDiskCount as 4 while Standard DS2 v2 has 8.
- > Standard D2s v3 has MemoryinMB as 8192 while Standard DS2 v2 has 7168.
- > Standard D2s_v3 has maxIOPS as 3200 while Standard DS2 v2 has 6400.
- > Standard D2s_v3 has tempStorage as 16 GiB while Standard DS2 v2 has 14 GiB.

What type of disks did you add? What were their sizes? According to Azure, what is their expected sequencing bandwidth and random IOPS?

Your answer: Premium SSD LRS and Standard SSD LRS (64 GiB each)

Premium SSD LRS- 240 IOPS, 50 MBps Standard SSD LRS- 500 IOPS,60 MBps

What is the sequencing bandwidth and random IOPS you measured with FIO?

Your answer: Standard SSD LRS= 17.7 KiB/s Throughput and 0.18/s IOPS

Premium SSD LRDS=32.3 KiB/s Throughput and 1.64/s IOPS

Deploy dockerized static site via Azure ACR

What is the public ip address of the ACI deployed container instance where we can access your site?

Your answer: http://shubhikagarg.eastus.azurecontainer.io/

What is the size of the container image used? (You can find this by listing the size of all images in your container registry)

Your answer: 142 MB

5. Create Azure webapp static site

What is the public address of the webapps static site?

Your answer: https://clouds-shubhika.azurewebsites.net/

6. Deploy static site on Azure Blob Store

What is the public address of the Blob store static site?

Your answer: https://csb1003200240a0bdaa.z6.web.core.windows.net/

Summary Questions.

You should have created a RG for each assignment separately. Report the cost distribution across various RGs that you can find in Azure Cost Analysis under Cost Management.

Your answer: Total=44.65 EUROS

Virtual Machine	24.29 EUROS
Storage	15.24 EUROS
Container Instances	3.14 EUROS
Virtual Network	1.07 EUROS
Container Registry	0.91 EUROS
Azure App Service	0.00 EUROS
Bandwidth	0.00 EUROS
Network Watcher	0.00 EUROS