Clouds Course

Assignment 1 Deliverable

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# 1. Create a free Azure account

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

*Your answer: No*

# 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:* *Standard B1s (1 vcpu, 1 GiB memory)*

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

*Your answer:* Premium SSD LRS 30 GiB

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

*Your answer:*  40.66.36.18

# 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: I resized to a B2s (2 vCPU 4 GiB memory) to avoid the bottleneck given by the VM*

**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: Standard SSD, 4 GiB 500 IOPS 60 Max throughput (max burst 600 IOPS and 150 MiB/s throughput) and Premium SSD 120 IOPS with 25 Max throughput (max burst 3500 IOPS and 170 MiB/s)*

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

*Your answer:*

*Standard: 512 IOPS (random) 38.3MiB/s Max throughput (sequential)*

*Premium: 2973 IOPS (random) 97.7MiB/s Max throughput (sequential)*

# 4. 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: webserverdns.c0bcfmgvfmeyarar.francesouth.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: 72.7MB*

# 5. Create Azure webapp static site

**What is the public address of the webapps static site?**

*Your answer: rtgew.azurewebsites.net*

# 6. Deploy static site on Azure Blob Store

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

*Your answer: https://csb100320031e29f34a.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: The most expensive services among them are the VM (due to the storage and network allocated) and the container. The other solutions are way cheaper (near to 0 for the web app due to its “pay-when-used” policy and also near to 0 for the blob storage solution because you only pay for the storage itself which is very cheap for our website).*

*This is the graph divided by service, some of these services don’t even show up due to their very limited cost:*

