

# REPORT

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## 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?**

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**Your answer:** Having to deal with the personal account before hand was confusing but finally the Azure Account was credited using the EURECOM's email address.

## 2 Deploy a website on Virtual Machine

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

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**Your answer:**

```
VM_SIZE=$(az vm show --name lab1-vm \
  --resource-group lab1-resources --query "hardwareProfile.vmSize" -o tsv)
az vm list-sizes --location east-us --query "[?name=='$VM_SIZE']" -o table
```

Returns

MaxDataDiskCount	MemoryInMB	Name	NumberOfCores	OsDiskSizeInMB	ResourceDiskSizeInMB
2	512	Standard_B1ls	1	1047552	4096

- Name: Standard\_B1ls (The VM instance type).

- NumberOfCores: 1 (This instance has 1 core).
- MemoryInMB: 512 MB (The VM has 512 MB of RAM).

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

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Your answer:

```
az vm show --name lab1-vm --resource-group lab1-resources \
--query "storageProfile.osDisk.{Size:diskSizeGb, Type:managedDisk.storageAccountType}" -o table
```

Returns

Size	Type
30	Standard_LRS

- Size: The virtual disk size is defined by the diskSizeGb field (e.g., 30 GB).
- Type: The storage type is defined by the storageAccountType field (e.g., Standard\_LRS).

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

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Your answer:

```
az vm list-ip-addresses --resource-group lab1-resources --output table
```

Returns

VirtualMachine	PublicIPAddresses	PrivateIPAddresses
lab1-vm	172.191.25.162	10.0.1.4

### 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?

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Your answer:

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What type of disks did you add? What were their sizes?

According to Azure, what is their expected sequencing bandwidth and random IOPS?

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Your answer:

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

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Your answer:

#### 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?

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Your answer:

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

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Your answer:

#### 5 Deploy static site on Azure Blob Store

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

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Your answer:

#### 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.

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Your answer:

[ ]: