#### REPORT

January 19, 2025

# Clouds Course

Assignment 1 Deliverab	ole		
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### 1 Create a free Azure account

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

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?

MaxDataDiskCount	${\tt MemoryInMB}$	Name	NumberOfCores	OsDiskSizeInMB	ResourceDiskSizeInMl
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).

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

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).

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

Your answer:

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

VirtualMachine	PublicIPAddresses	PrivateIPAddresses
lab1-vm	74.235.215.246	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?

Your answer:

 $\label{tofu} to fu \ apply \ -var="vm_size=Standard_DS2\_v2" \ -target=azurerm\_linux\_virtual\_machine.lab1\_vm \\ Returns$ 

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:				
What is the sequencing bandwidth and rand	dom IOPS	you measured	with FIO?	
Your answer:				
4 Deploy dockerized static site vi	a Azure	ACR		
What is the public ip address of the ACI				
deployed container instance where we can a	ccess your	site?		
Your answer:				
http://acrclouds 2025 eurbr.eastus. azure container.ich	)			
What is the size of the container image used	d?			
192MB				
(You can find this by listing the size of all	images in	your container i	registry)	
docker image ls				
Returns:				
REPOSITORY acrclouds2025eurbr.azurecr.io/static-site static-site nginx	TAG v1 latest latest	IMAGE ID e62dc83210d6 e62dc83210d6 9bea9f2796e2	CREATED About an hour ago About an hour ago 7 weeks ago	SIZE 192MB 192MB 192MB
Your answer:				
5 Create Azure webapp static sit	e			
What is the public address of the webapps	static site	?		
Your answer:				
https://we bapp clouds 2025 eur br. azure websites. net				

## 6 Deploy static site on Azure Blob Store

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

#### Your answer:

https://blobstoreclouds 2025 eurbr.z 13. web. core. windows.net

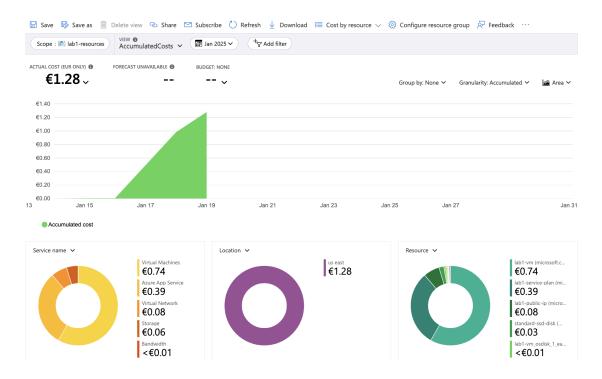
#### Summary Questions.

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:

For the entire lab (Assignement 1), one resource group was used lab1-resources

IaC (Infrastructure as Code), using OpenTofu helps saving cost by creating all the infrastructure at once and tearing it down all together when needed. Some extra commands need to applied manually but in general running the scripts takes about 1 minute to launch.



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