

# **LAB MANUAL**

**CSA1517 - CLOUD COMPUTING AND BIG DATA  
ANALYTICS FOR HADOOP APPLICATIONS**

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## **EXP18: DEMONSTRATE INFRASTRUCTURE AS A SERVICE (IAAS) BY CREATING A VIRTUAL MACHINE USING A PUBLIC CLOUD SERVICE PROVIDER (AZURE), CONFIGURE WITH REQUIRED MEMORY AND CPU.**

### **AIM:**

To demonstrate infrastructure as a service (iaas) by creating a virtual machine using a public cloud service provider (azure), configure with required memory and cpu.

### **PROCEDURE:**

STEP1: CREATE AN ACCOUNT IN MICROSOFT AZURE.

STEP2: GOTO RESOURCE GROUP AND CREATE A RESOURCE GROUP.

STEP3: GIVE NECESSARY THINGS FOR RESOURCE GROUP.

STEP4: CREATE A VIRTUAL NETWORK FOR TO CREATE A VIRTUAL MACHINE .

STEP5: NOW CREATE A VIRTUAL MACHINE WITH UR IP ADDRESS AN USERNAME AND PASSWORD FOR YOUR VIRTUAL MACHINE.

STEP6: AND YOUR VIRTUAL MACHINE IS DEPLOYED.

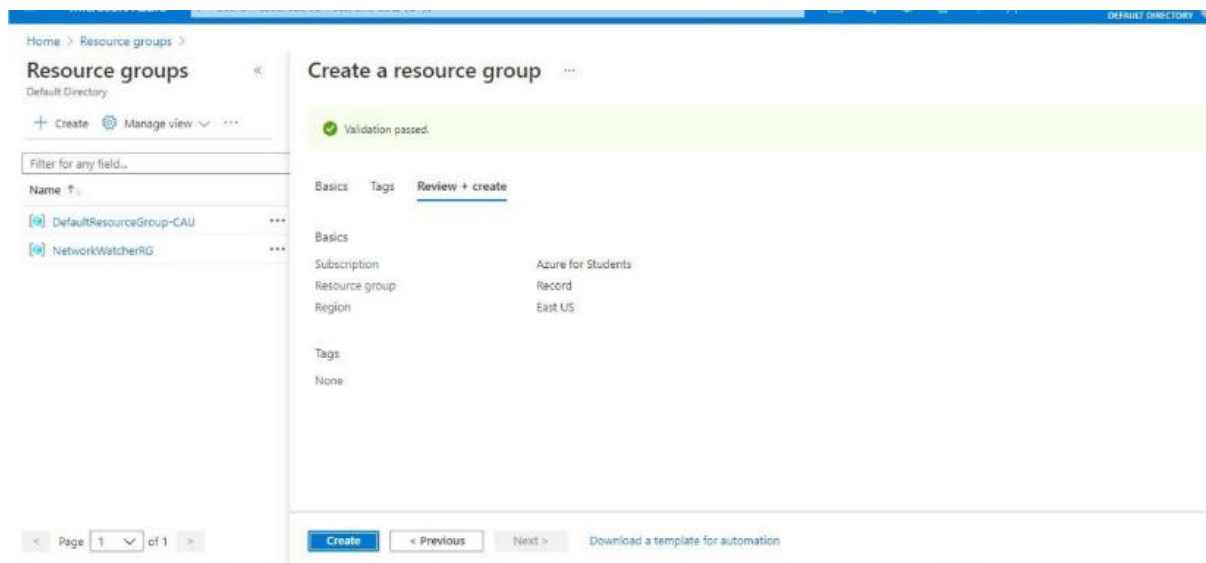
STEP7: NOW CONNECT THE VIRTUAL MACHINE AND DOWNLOAD THE RDP FILE TO OPEN YOUR

WINDOWS VIRTUAL MACHINE.

STEP8: NOW RESIZE THE VIRTUAL MACHINE SIZE.

STEP9: CREATED A NEW WINDOWS VIRTUAL MACHINE

### **IMPLEMENTATION:**



## Resource groups

Default Directory

+ Create Manage view ...

Filter for any field...

Name ↑

- DefaultResourceGroup-CAU ...
- NetworkWatcherRG ...

Page 1 of 1

## Create a resource group

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

### Project details

Subscription \* Azure for Students  
Resource group \* Record

### Resource details

Region \* (US) East US

Review + create Previous Next: Tags

Resource groups		
Default Directory		
+ Create Manage view Refresh Export to CSV Open query Assign tags Feedback		
Filter for any field... Subscription == all Location == all Add filter		
Showing 1 to 3 of 3 records		
No grouping	List view	
Name ↑	Subscription ↑	Location ↑
DefaultResourceGroup-CAU	Azure for Students	Australia Central
NetworkWatcherRG	Azure for Students	East US
Record	Azure for Students	East US

Home

CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210721104828 | Overview

Deployment

Search (Ctrl+F)

Delete Cancel Redeploy Refresh

Overview

Inputs

Outputs

Template

We'd love your feedback

✓ Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 7/21/2021, 10:52:14 AM

Subscriptions: Azure for Students Correlation ID: 30f40b35-8270-49dc-bc77-42eec86e5c61

Resource group: Record

Deployment details (Download)

Next steps

Setup auto-shutdown Recommended

Monitor VM health, performance and network dependencies Recommended

Run a script inside the virtual machine Recommended

Go to resource Create another VM

Security Center

Secure your apps and infrastructure

Go to Azure security center

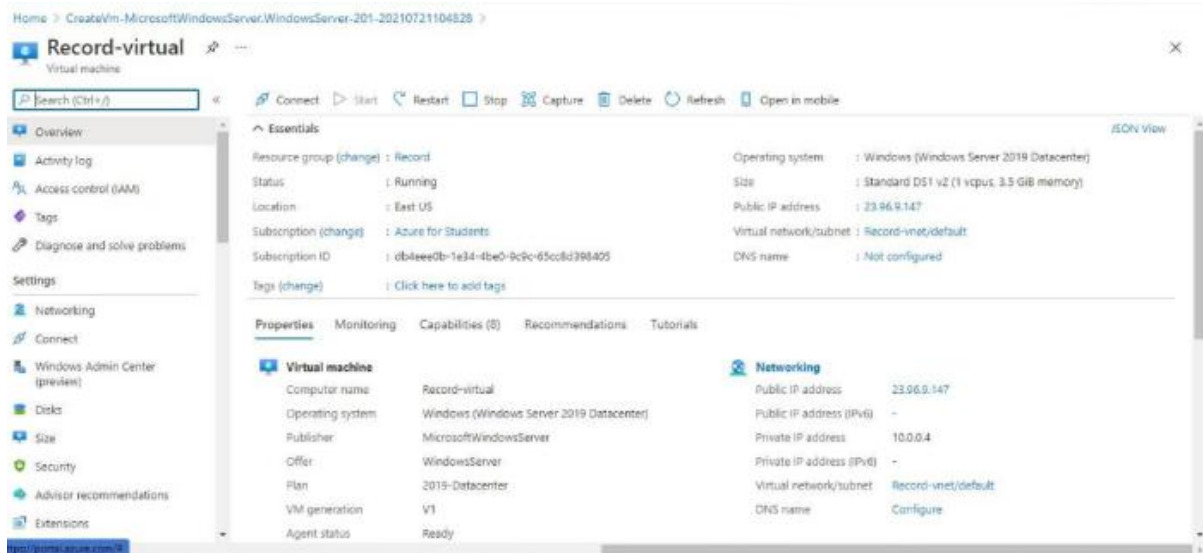
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## RESULT:

Infrastructure as a service (iaas) by creating a virtual machine using a public cloud service provider (azure), configure with required memory and cpu has been demonstrated.