

# **LAB EXPERIMENTS**

**CSA1517**

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

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**EXP 20. Demonstrate Infrastructure as a Service (IaaS) by establishing the remote connection, launch the created VM image and run in your desktop using Azure.**

**AIM:**

To demonstrate Infrastructure as a Service (IaaS) by establishing the remote connection, launch the created VM image and run in your desktop using Azure.

**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 AVIRTUAL NETWORK FOR TO CREATE AVIRTUALMACHINE.

STEP5: NOW CREATE A VIRTUAL MACHINE WITH UR IPADDRESS ANUSERNAME AND

PASSWORD FOR YOUR VIRTUAL MACINE.

STEP6: AND YOUR VIRTUAL MACHINE IS DEPLOYED.

STEP7: NOW CONNECT THE VIRTUAL MACHINE AND DOWNLOAD THE RDP FILETO OPEN YOUR WINDOWS VIRTUAL MACHINE.

STEP8: CREATED ANEW WINDOWS VIRTUAL MACHINE

**IMPLEMENTATION:**

The screenshot shows the Azure portal interface for creating a new resource group. The top navigation bar includes 'Home', 'Resource groups', and 'Create'. The main title is 'Create a resource group'. A green validation message 'Validation passed.' is displayed. Below it, there are tabs for 'Basics', 'Tags', and 'Review + create'. Under 'Basics', the 'Subscription' is set to 'Azure for Students', 'Resource group' is 'Record', and 'Region' is 'East US'. Under 'Tags', there are no tags assigned. At the bottom, there are buttons for 'Create', '< Previous', 'Next >', and 'Download a template for automation'.

Home > Resource groups >

## Resource groups

Default Directory

+ Create Manage view

Filter for any field...

Name ↑

- [?] DefaultResourceGroup-CAU
- [?] NetworkWatcherRG

Page 1 of 1

Review + create < Previous Next : Review + create >

Home >

## 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.

Name ↑	Subscription ↑	Location ↑
[?] DefaultResourceGroup-CAU	Azure for Students	Australia Central
[?] NetworkWatcherRG	Azure for Students	East US
[?] Record	Azure for Students	East US

No grouping List view

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Record-virtual

Virtual machine

Search (Ctrl+F)

Connect Start Restart Stop Capture Delete Refresh Open in mobile

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Settings Networking Windows Admin Center (preview) Disk Size Security Advisor recommendations Extensions

Essentials

Resource group (change) : Record Status : Running Location : East US Subscription (change) : Azure for Students Subscription ID : db4eacdb-1634-4bed-90c0-05c08d398425

Tags (change) : Click here to add tags

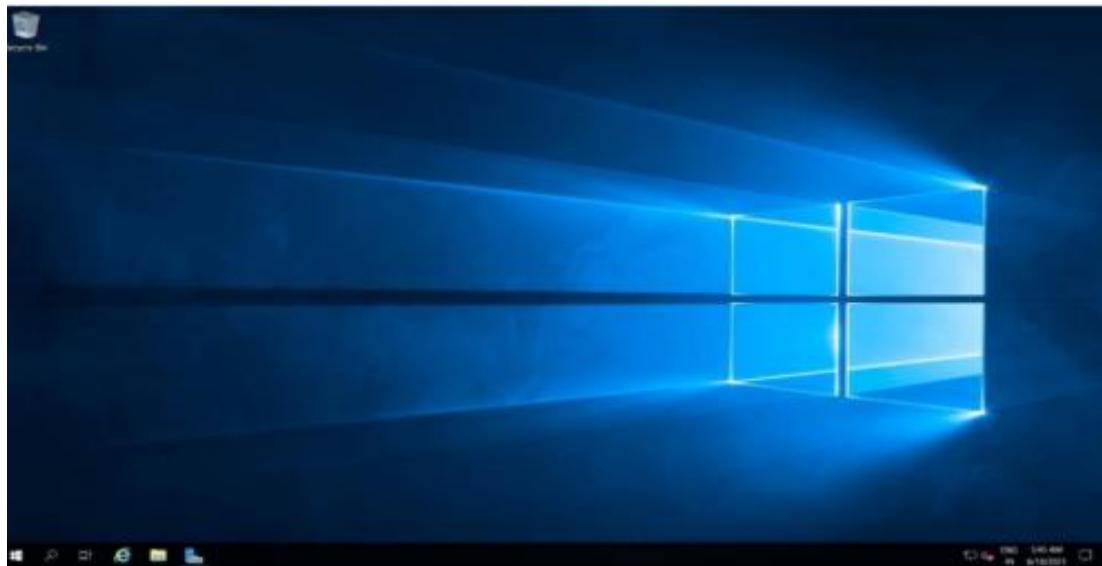
Properties Monitoring Capabilities (0) Recommendations Tutorials

**Virtual machine**

Computer name	Record-virtual	Operating system	Windows (Windows Server 2019 Datacenter)
Operating system	Windows (Windows Server 2019 Datacenter)	Size	Standard D1 v2 (1 vCPU, 3.5 GB memory)
Publisher	MicrosoftWindowsServer	Public IP address	23.93.8.147
Offer	WindowsServer	Virtual network/subnet	Record-vnet/default
Plan	2019-Datacenter	VM size	Standard D1 v2
VM generation	V1	DNS name	Configure
Agent status	Ready		

**Networking**

Public IP address	23.93.8.147
Public IP address (IPv6)	-
Private IP address	10.0.2.4
Private IP address (IPv6)	-
Virtual network/subnet	Record-vnet/default



**Result:**

Infrastructure as a Service (IaaS) by establishing the remote connection, launch the created VM image and run in your desktop using Azure has been demonstrated.