

LAB MANUAL

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

J KARTHIK

192472136

EXP NO 24. CREATE A STORAGE SERVICE USING ANY PUBLIC CLOUD SERVICE PROVIDER (AZURE/GCP/AWS) AND CHECK THE PUBLIC ACCESSIBILITY OF THE STORED FILE TO DEMONSTRATE STORAGE AS A SERVICE.

AIM:

To demonstrate infrastructure as a service(iaas) by creating a virtual machine using a public cloud service provider(azure/gcp/aws) configure with minimum cpu,ram and storage and launch the vm image.

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 MACINE.

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: CREATED A NEW WINDOWS VIRTUAL MACHINE

IMPLEMENTATION:

The screenshot shows the Microsoft Azure Resource groups page. At the top, there are tabs for 'Lab Manual', 'CSA15 - Cloud Lab Manual - N...', 'List of Experiments', and 'Resource groups - Microsoft A...'. The main header includes a search bar, Copilot, and various navigation icons. Below the header, the page title is 'Resource groups' with a sub-header 'Export resource groups using Bicep or Terraform'. It displays a message: 'You are viewing a new version of Browse experience. Click here to access the old experience.' There are filter options: 'Subscription equals all' and 'Location equals all'. The table lists three resource groups:

	Name	Subscription	Location
<input type="checkbox"/>	DefaultRecord	... Azure for Students	East US
<input type="checkbox"/>	Record	... Azure for Students	East US
<input type="checkbox"/>	StudRecords	... Azure for Students	East US

At the bottom, it says 'Showing 1 - 3 of 3. Display count: auto' and has a 'Give feedback' link.

The screenshot shows the 'Create a resource group' page in the 'Basics' step. The URL is 'portal.azure.com/#view/HubsExtension/ResourceGroupCreate.ReactView/_provisioningContext~/%7B"telemetryId"%3A"2972aa2f-98fb-42fd-8f1f-ef5eac40996c"%2C"referenceType"...'. The page title is 'Create a resource group' with a back arrow. It shows the current step: 'Create a resource group > Basics'. There are tabs for 'Basics', 'Tags', and 'Review + create'. The 'Basics' tab is selected. The page contains a description of what a resource group is: '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.' Below the description are three input fields: 'Subscription *' (selected: 'Azure for Students'), 'Resource group name *' (empty), and 'Region *' (selected: '(US) East US'). At the bottom, there are buttons for 'Previous', 'Next', and 'Review + create'.

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portal.azure.com/#view/HubsExtension/ResourceGroupCreate.ReactView/_provisioningContext~/%7B"telemetryId"%3A"2972aa2f-98f8-42fd-8f1f-e5eac40996c"%2C"referenceType"%3A"ResourceGroupCreate"%7D

Microsoft Azure Search resources, services, and docs (G+/)

Copilot

192411086.simats@sav... DEFAULT DIRECTORY (19241086...)

Home > Resource groups >

Create a resource group ...

Basics Tags Review + create

Automation Link

Basics

Subscription	Azure for Students
Resource group name	resources
Region	East US

Tags

None

Previous Next Create

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portal.azure.com/#view/HubsExtension/BrowseResourceGroups.ReactView

Microsoft Azure Search resources, services, and docs (G+/)

Copilot

192411086.simats@sav... DEFAULT DIRECTORY (19241086...)

Home >

Resource groups ...

Export resource groups using Bicep or Terraform

Default Directory (192411086simatsaveetha.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags Group by none

You are viewing a new version of Browse experience. Click here to access the old experience.

Filter for any field... Subscription equals all Location equals all Add filter

Name	Subscription	Location
DefaultRecord	Azure for Students	East US
Record	Azure for Students	East US
StudRecords	Azure for Students	East US

Showing 1 - 3 of 3. Display count: auto

Give feedback

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 Connect Windows Admin Center (preview) Disks Size Security Advisor recommendations Extensions

Resource group (change) : Record Status : Running Location : East US Subscription (change) : Azure for Students Subscription ID : db4eee0b-1e24-4be0-9c9c-65cc8d398405 Tags (change) : Click here to add tags

Operating system : Windows (Windows Server 2019 Datacenter) Size : Standard DS1 v2 (1 vCPU, 3.5 GiB memory) Public IP address : 23.96.9.147 Virtual network/subnet : Record-vnet/default DNS name : Not configured

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name	Record-virtual
Operating system	Windows (Windows Server 2019 Datacenter)
Publisher	MicrosoftWindowsServer
Offer	WindowsServer
Plan	2019-Datacenter
VM generation	V1
Agent status	Ready

Networking

Public IP address	23.96.9.147
Public IP address (IPv6)	-
Private IP address	10.0.0.4
Private IP address (IPv6)	-
Virtual network/subnet	Record-vnet/default
DNS name	Configure

Result:

Infrastructure as a service(iaas) by creating a virtual machine using a public cloud service provider(azure/gcp/aws) configure with minimum cpu,ram and storage and launch the vm image has been demonstrated.