

LAB EXPERIMENTS

CSA1517

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

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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 title is 'Resource groups' with a sub-section 'Export resource groups using Bicep or Terraform'. Below the title, it says 'You are viewing a new version of Browse experience. Click here to access the old experience.' There are filter options: 'Subscription equals all' (selected), 'Location equals all' (selected), and 'Add filter'. The table lists three resource groups:

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

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

The screenshot shows the 'Create a resource group' wizard on the 'Basics' step. The title is 'Create a resource group'. There are three tabs: 'Basics' (selected), 'Tags', and 'Review + create'. Below the tabs, a description of a Resource group is provided: '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.' A 'Learn more' link is also present. The form fields are: 'Subscription *' (selected 'Azure for Students'), 'Resource group name *' (empty input field), and 'Region *' (selected '(US) East US'). At the bottom, there are buttons for 'Previous', 'Next', and 'Review + create' (which is highlighted in blue).

The screenshot shows the 'Create a resource group' wizard in the Microsoft Azure portal. The current step is 'Review + create'. The 'Automation Link' section is collapsed. The 'Basics' section shows the following configuration:

Subscription	Azure for Students
Resource group name	resources
Region	East US

The 'Tags' section shows 'None'.

At the bottom, there are 'Previous', 'Next', and 'Create' buttons.

The screenshot shows the 'Resource groups' overview page in the Microsoft Azure portal. The page title is 'Resource groups' and it includes a note: 'You are viewing a new version of Browse experience. Click here to access the old experience.' The page features a search bar and filter options: 'Filter for any field...', 'Subscription equals all', 'Location equals all', and '+ Add filter'. The main table displays three resource groups:

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

At the bottom, it says 'Showing 1 - 3 of 3. Display count: auto' and '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 GB 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.