

## **EXP -5**

**DATE : 09-02-2023**

### **DEMONSTRATE INFRASTRUCTURE AS A SERVICE(IAAS) BY CREATING A VIRTUAL MACHINE USING A PUBLIC CLOUD SERVICE (AZURE)**

#### **AIM:**

To demonstrate infrastructure as a service (IaaS) by creating a virtual machine using a public cloud service (azure)

#### **PROCEDURE:**

1. Create an account in microsoft azure.
2. Goto resource group and create a resource group.
3. Give necessary things for resource group
4. Create a virtual network for to create a virtual machine .
5. Now create a virtual machine with ur ip address an username and password for your virtual machine.
6. Your virtual machine is deployed.
7. Now connect the virtual machine and download the rdp file to open your windows virtual machine.
8. Created a new windows virtual machine.

# IMPLEMENTATION:

## STEP1:CREATE AN ACCOUNT IN MICROSOFT AZURE.

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

Home > Resource groups >

Resource groups  
Default Directory

+ Create Manage view ...

Filter for any field...

Name ↑

- DefaultResourceGroup-CAU
- NetworkWatcherRG

Create a resource group ...

Validation passed.

Basics Tags Review + create

Basics

Subscription Azure for Students

Resource group Record

Region East US

Tags

None

Page 1 of 1

Create < Previous Next > Download a template for automation

## STEP2: GOTO RESOURCE GROUP AND CREATE A RESOURCE GROUP.

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

Home > Resource groups >

Resource groups  
Default Directory

+ Create Manage view ...

Filter for any field...

Name ↑

- DefaultResourceGroup-CAU
- NetworkWatcherRG

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

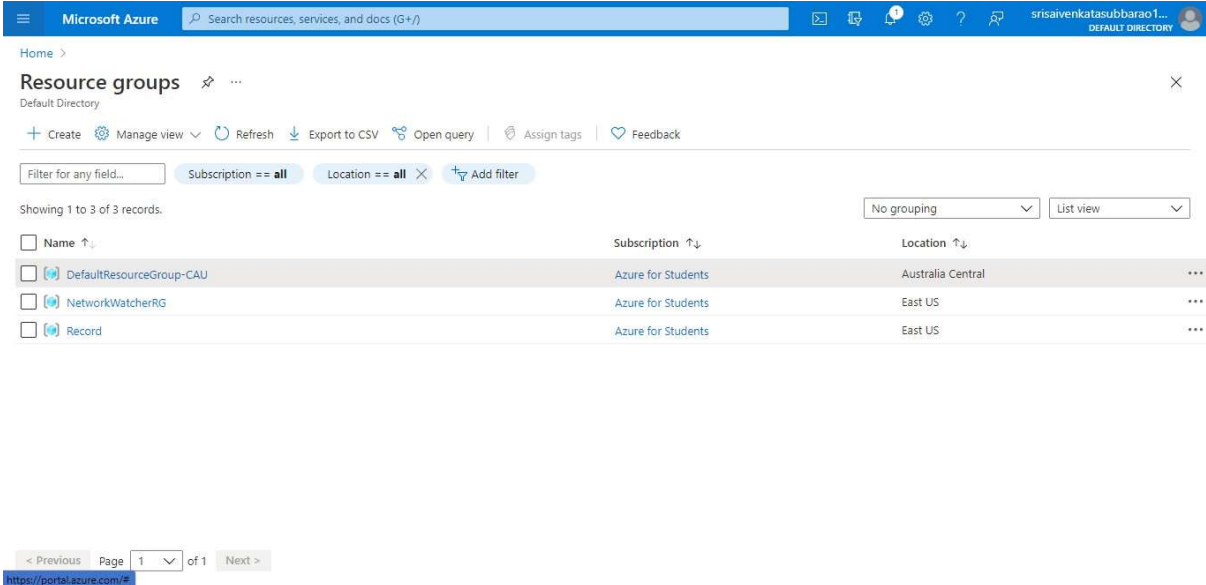
Resource details

Region \* ⓘ (US) East US

Page 1 of 1

Review + create < Previous Next: Tags >

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



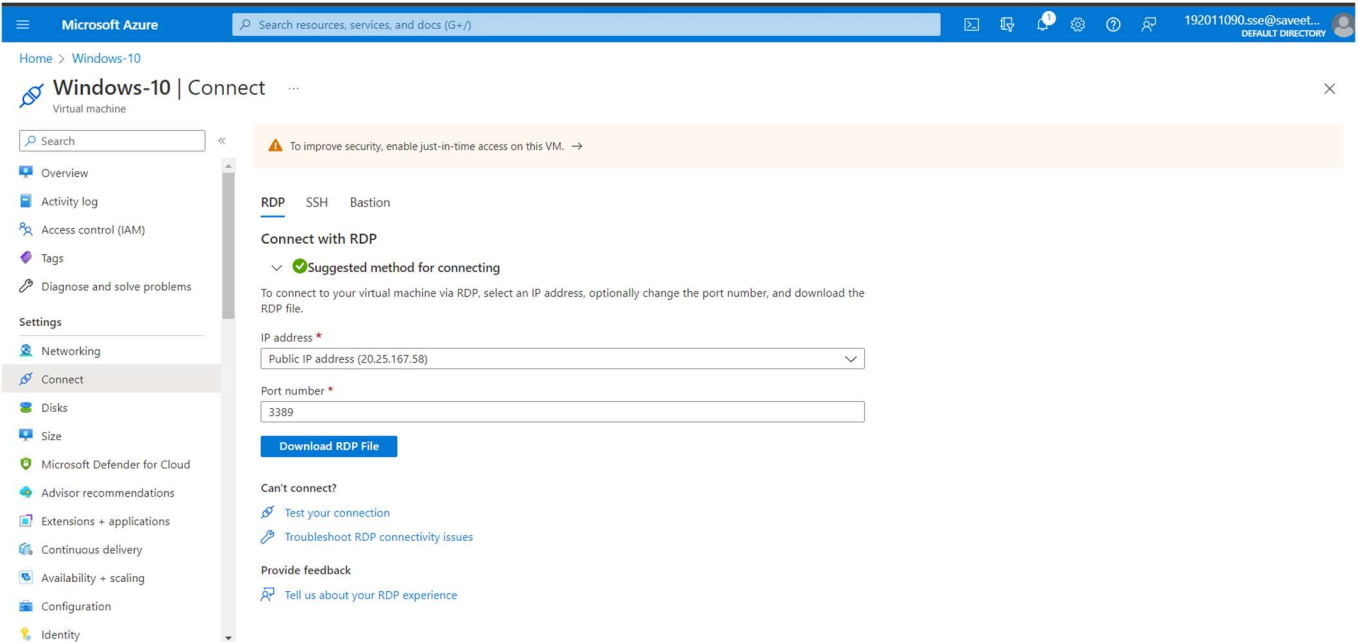
The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information. The main content area is titled "Resource groups" and shows a table of resource groups. The table has columns for Name, Subscription, and Location. The data rows are:

Name	Subscription	Location
DefaultResourceGroup-CAU	Azure for Students	Australia Central
NetworkWatcherRG	Azure for Students	East US
Record	Azure for Students	East US

Below the table, there is a pagination bar showing "Page 1 of 1" and a URL "https://portal.azure.com/#".

## 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.



The screenshot shows the Microsoft Azure portal interface for a Windows-10 virtual machine. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking, Connect, Disks, Size, Microsoft Defender for Cloud, Advisor recommendations, Extensions + applications, Continuous delivery, Availability + scaling, Configuration, and Identity. The main content area is titled "Windows-10 | Connect" and shows a "Connect with RDP" section. It includes a "Download RDP File" button and a "Can't connect?" section with links for "Test your connection" and "Troubleshoot RDP connectivity issues".

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

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information. The main content area displays the details of a virtual machine named "Windows-10".

**Overview**

- Resource group: my-resource-group
- Status: Running
- Location: West US 3
- Subscription: Azure for Students
- Subscription ID: 0a0fa806-6145-436e-b426-e7f420b9cb6c
- Tags: Click here to add tags

**Essentials**

- Operating system: Windows (Windows 10 Pro)
- Size: Standard DS1 v2 (1 vcpu, 3.5 GiB memory)
- Public IP address: 20.25.167.58
- Virtual network/subnet: my-resource-group-vnet/default
- DNS name: Not configured

**Properties**

Property	Value
Computer name	Windows-10
Health state	-
Operating system	Windows (Windows 10 Pro)
Publisher	MicrosoftWindowsDesktop
Offer	Windows-10
Plan	win10-21h2-pro-g2
VM generation	V2

**Networking**

Property	Value
Public IP address	20.25.167.58
Public IP address (IPv6)	-
Private IP address	10.0.0.4
Private IP address (IPv6)	-
Virtual network/subnet	my-resource-group-vnet/default
DNS name	Configure

Today

The screenshot shows a Windows Security dialog box titled "Enter your credentials". The dialog box is overlaid on a desktop background with several open windows, including a "Removal" window and a "This remote connection" window.

**Windows Security**

**Enter your credentials**

These credentials will be used to connect to 20.25.167.58.

Gowtham-K

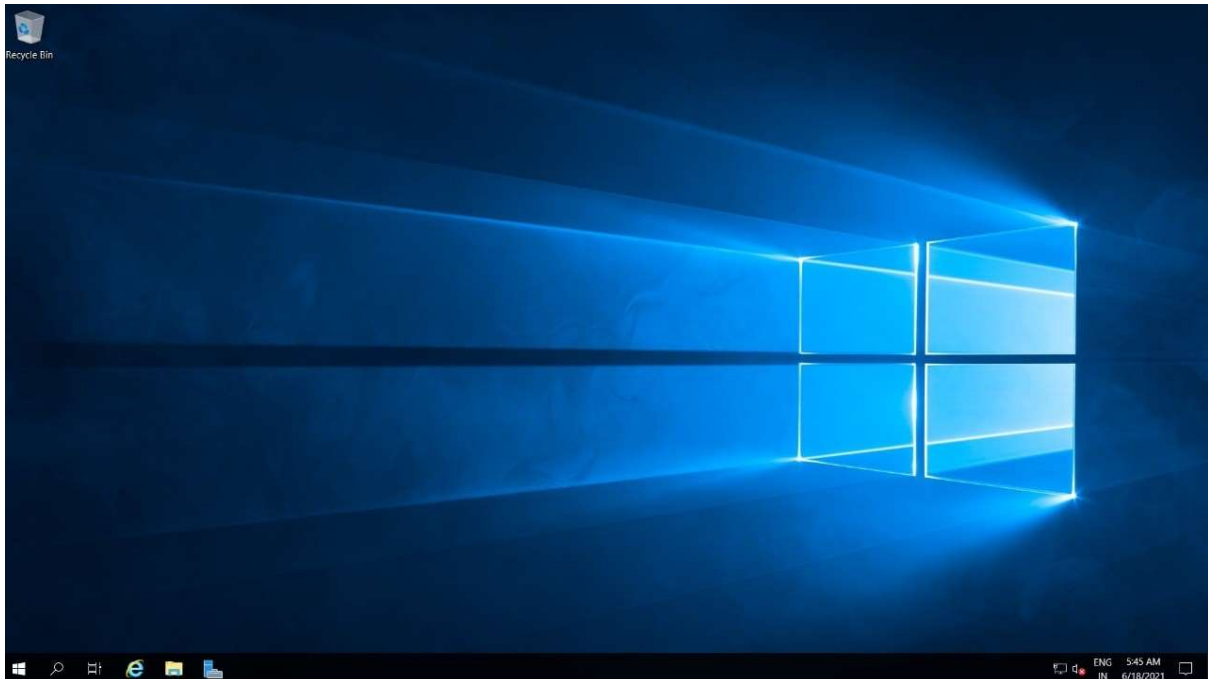
MicrosoftAccount\Gowtham-K

☐ Remember me

[More choices](#)

OK Cancel

## **STEP8: CREATED A NEW WINDOWS VIRTUAL MACHINE.**



## **RESULT:**

Hence infrastructure as a service (IaaS) by creating a virtual machine using a public cloud service (azure) is Demonstrated.