

5.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.

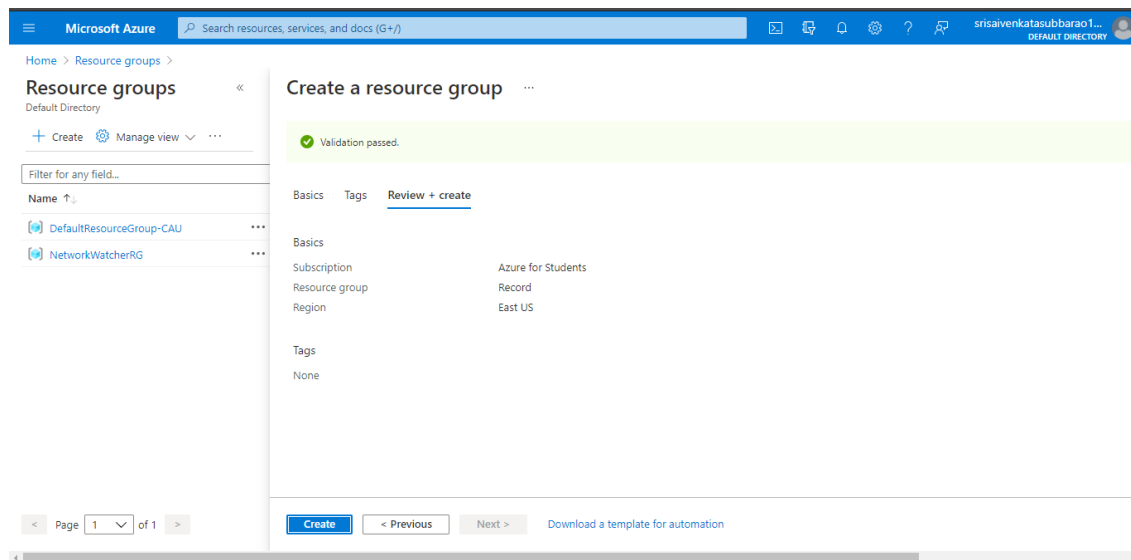
AIM:

Procedure:

Implementation:

STEP1:CREATE AN ACCOUNT IN MICROSOFT AZURE.

STEP2: GOTO RESOURCE GROUP AND CREATE A RESOURCE GROUP.



STEP3: GIVE NECESSARY THINGS FOR RESOURCE GROUP.

Microsoft Azure

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

srisaivenkatasubbarao1...
DEFAULT DIRECTORY

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

Review + create < Previous Next: Tags >

Microsoft Azure

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Basics Tags Review + create

Apply tags to your Azure resources to logically organize them by categories. A tag consists of a key (name) and a value. Tag names are case-insensitive and tag values are case-sensitive. [Learn more](#)

Name ⓘ Value ⓘ Resource

: Resource group

Review + create < Previous Next: Review + create >

https://portal.azure.com/

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

The screenshot shows the Microsoft Azure portal interface. At the top, there's a search bar and navigation icons. Below the header, the 'Resource groups' page is displayed. It includes a toolbar with options like 'Create', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', 'Assign tags', and 'Feedback'. A filter bar shows 'Subscription == all' and 'Location == all'. The main content area displays a table of resource groups:

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

At the bottom, there's a pagination bar showing 'Page 1 of 1' and a URL bar with 'https://portal.azure.com/#'.

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.

The screenshot shows the Microsoft Azure portal interface for the 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210721104828' deployment. The 'Overview' tab is selected, showing a 'Your deployment is complete' message. The deployment details include:

- Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe...
- Subscription: Azure for Students
- Resource group: Record
- Start time: 7/21/2021, 10:52:14 AM
- Correlation ID: a0f40b35-8270-49dc-bcf7-42ec66e5c61

Under 'Next steps', there are recommendations for 'Setup auto-shutdown', 'Monitor VM health, performance and network dependencies', and 'Run a script inside the virtual machine'. A 'Go to resource' button is visible. On the right, there are links for 'Security Center', 'Free Microsoft tutorials', and 'Work with an expert'.

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

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

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210721104828 >

Record-virtual

Virtual machine

Search (Ctrl+/) << 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

Essentials

Resource group (change) : Record

Status : Running

Location : East US

Subscription (change) : Azure for Students

Subscription ID : db4eee0b-1e34-4be0-9c9c-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

JSON View

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

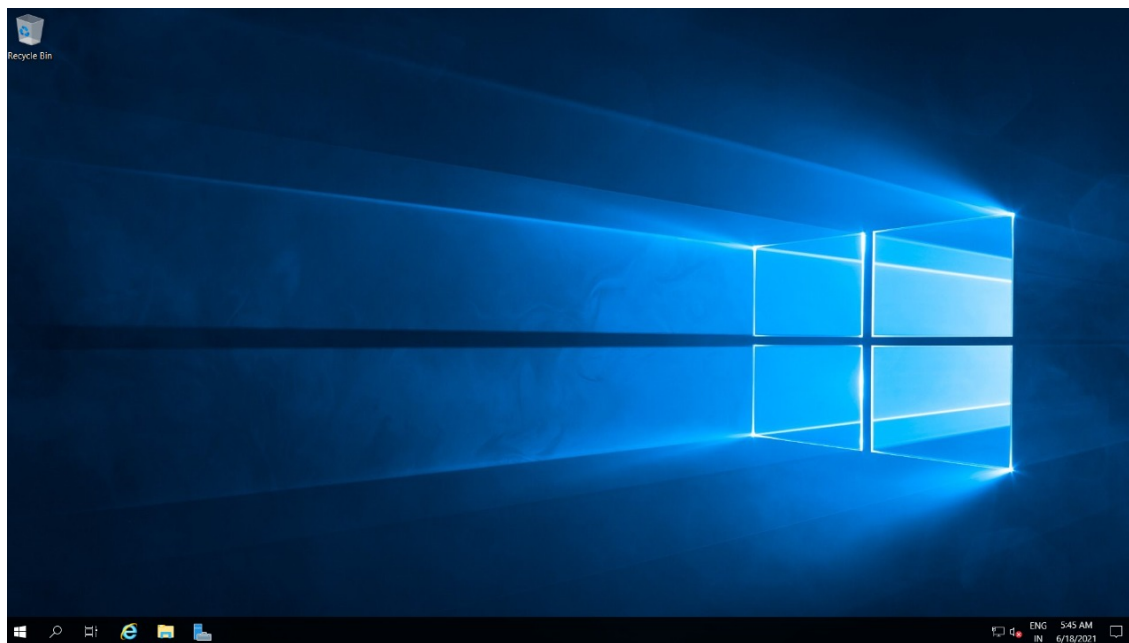
Computer name	Record-virtual
Operating system	Windows (Windows Server 2019 Datacenter)
Publisher	MicrosoftWindowsServer
Offer	WindowsServer
Plan	2019-Datacenter
VM generation	V1
Agent status	Ready

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

https://portal.azure.com/#

STEP8: CREATED A NEW WINDOWS VIRTUAL MACHINE.



RESULT:

Virtual machines

+ Add ⌚ Reservations ...

Filter by name...

- ☐ Name ↑↓
- ☒ Vmweb001 ...

Vmweb001

Virtual machine

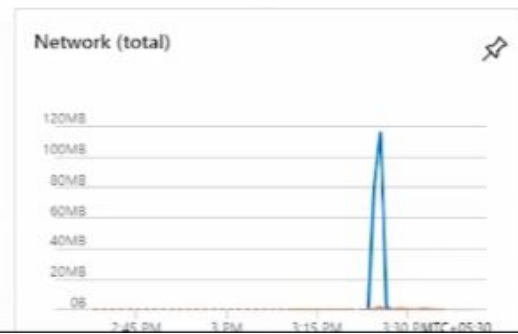
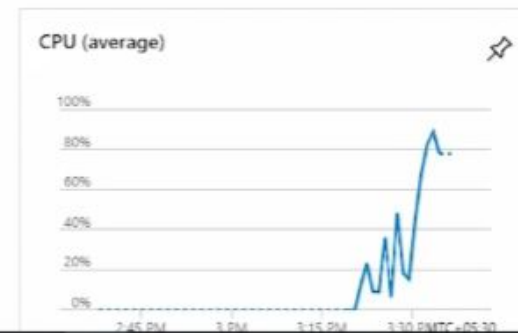
🔍 Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
 - Networking
 - Connect
 - Disks
 - Size
 - Security
 - Extensions
 - Continuous delivery
 - Availability + scaling
 - Configuration
 - Identity
 - Properties
 - Locks

🔗 Connect ▶ Start ↺ Restart □ Stop 📷 Capture 🗑 Delete ↻ Refresh

Resource group (change)	: Payroll1	Azure Spot	: N/A
Status	: Running	Public IP address	: 13.90.131.19 📄
Location	: East US	Private IP address	: 10.0.1.4
Subscription (change)	: Microsoft Azure	Public IP address (IPv6)	: -
Subscription ID	: 501eb85c-f735-448a-82b3-2ff8c124ef16	Private IP address (IPv6)	: -
Computer name	: Vmweb001	Virtual network/subnet	: Payroll1-vnet/default
Operating system	: Windows (Windows Server 2012 R2 Datacenter)	DNS name	: Configure
Size	: Standard B1ms (1 vcpu, 2 GiB memory)	Scale Set	: N/A
Tags (change)	Name : Webserver Owner : XYZ Application Owner : ABC Backup Team : PQR Business Unit : Payroll		

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days





Recycle Bin

 Windows Server 2012 R2

