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ROLL NO - T212075

DIV-B

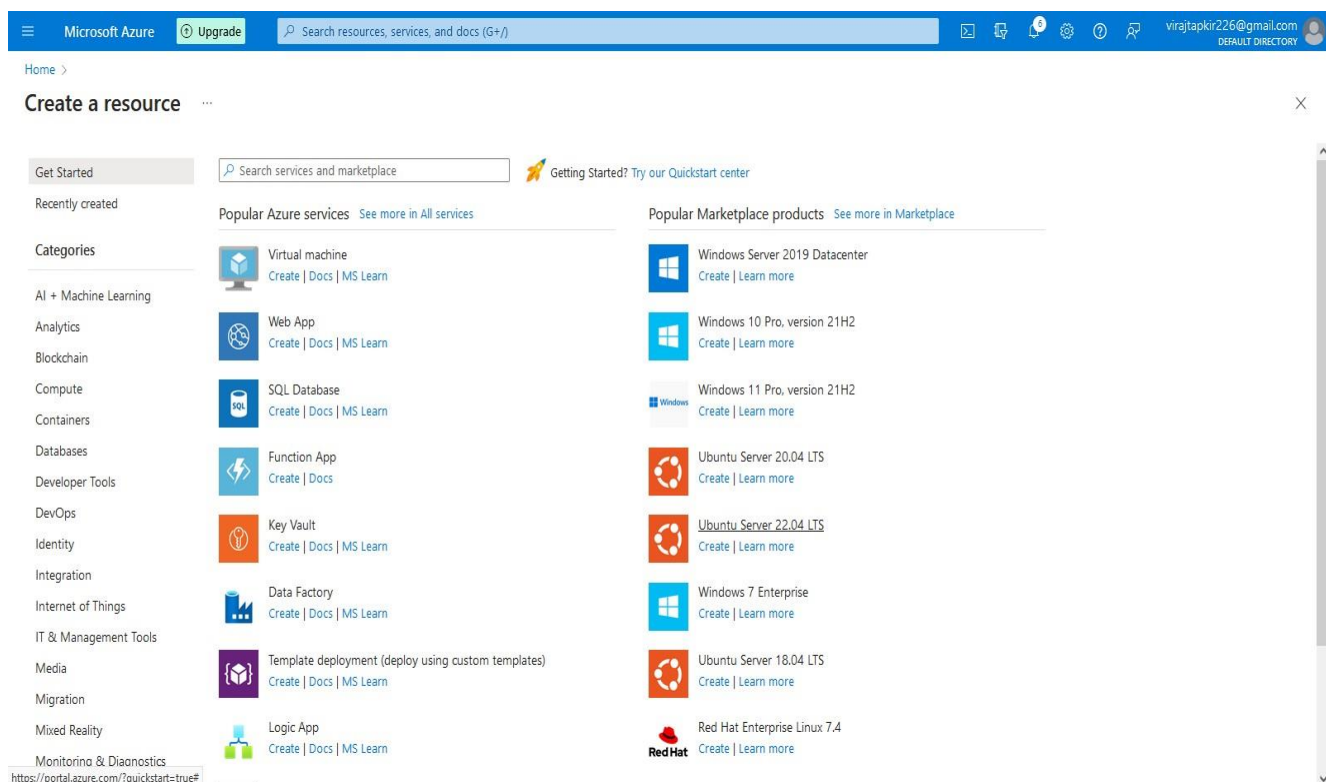
Assignment no.01

Aim: Case study on Microsoft azure to learn about Microsoft Azure is a cloud computing platform and infrastructure, created by Microsoft, for building, deploying and managing applications and services through a global network of Microsoft-managed data centers .

Sign in to Azure Sign in to the Azure portal at <https://portal.azure.com>.

Create virtual machine

1. Choose Create a resource in the upper left-hand corner of the Azure portal.
2. In the search box above the list of Azure Marketplace resources, search for and select Windows Server 2016 Datacenter, then choose Create.
3. In the Basics tab, under Project details, make sure the correct subscription is selected and then choose to Create new resource group. Type myResourceGroup for the name.



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Home > Create a resource >

Create a virtual machine

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

This subscription may not be eligible to deploy VMs of certain sizes in certain regions.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

Free Trial

Resource group *

(New) TEB_group

Create new

Instance details

Virtual machine name *

TEB

Region *

(Asia Pacific) Central India

Availability options

No infrastructure redundancy required

Security type

Standard

Review + create

< Previous

Next : Disks >

Give feedback

4. Under Instance details, type myVM for the Virtual machine name and choose East US for your Location. Leave the other defaults.

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Create a virtual machine

Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.

[See all sizes](#)

Administrator account

Username *

TEB

Password *

••••••••••

Confirm password *

••••••••••

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports *

None

Allow selected ports

Select inbound ports *

RDP (3389)

This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Review + create

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Give feedback

Under Administrator account, provide a username, such as azureuser and a password. The password must be at least 12 characters long and meet the defined complexity requirements

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Create a virtual machine

Validation passed

Microsoft Defender for Cloud	None
System assigned managed identity	Off
Login with Azure AD	Off
Auto-shutdown	Off
Enable hotpatch	Off
Patch orchestration options	OS-orchestrated patching: patches will be installed by OS

Monitoring

Alerts	Off
Boot diagnostics	On
Enable OS guest diagnostics	Off

Advanced

Extensions	None
VM applications	None
Cloud init	No
User data	No
Disk controller type	SCSI
Proximity placement group	None
Capacity reservation group	None

Create < Previous Next > Download a template for automation Give feedback

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Home >

CreateVm-MicrosoftWindowsServer.WindowsServer-201-20230411141742 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview

- Inputs
- Outputs
- Template

Deployment is in progress

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsS... Start time: 4/11/2023, 2:29:00 PM
Subscription: Free Trial Correlation ID: 2643b863-ee93-486c-81a2-bb2e23ec6ad
Resource group: TEb_group

Deployment details

Resource	Type	Status	Operation details
No results.			

Give feedback
Tell us about your experience with deployment

Microsoft Defender for Cloud
Secure your apps and infrastructure
[Go to Microsoft Defender for Cloud >](#)

Free Microsoft tutorials
[Start learning today >](#)

Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
[Find an Azure expert >](#)

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TEB

Virtual machine

Search

ConnectStartRestartStopCaptureDeleteRefreshOpen in mobileFeedbackCLI / PS

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center

Disks

Size

Microsoft Defender for Cloud

Advisor recommendations

Extensions + applications

Continuous delivery

Availability + scaling

Configuration

Identity

Private

Essentials

Resource group (move) : [TEB_group](#)

Status : Running

Location : Central India

Subscription (move) : [Free Trial](#)

Subscription ID : 2b474ed8-9e4e-465f-a8be-88be46171de3

Tags (edit) : [Click here to add tags](#)

Operating system : Windows (Windows Server 2016 Datacenter)

Size : Standard D51 v2 (1 vcpu, 3.5 GiB memory)

Public IP address : [20.204.175.208](#)

Virtual network/subnet : [TEB-vnet/default](#)

DNS name : [Not configured](#)

JSON View

PropertiesMonitoringCapabilities (8)RecommendationsTutorials

Virtual machine

Computer name : TEB

Health state : -

Operating system : Windows (Windows Server 2016 Datacenter)

Publisher : MicrosoftWindowsServer

Offer : WindowsServer

Plan : 2016-datacenter-gensecond

VM generation : V2

VM architecture : x64

Agent status : Ready

Agent version : 2.7.41491.1075

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Networking

Public IP address : [20.204.175.208 \(Network interface teb408 \)](#)

Public IP address (IPv6) : -

Private IP address : 10.0.0.4

Private IP address (IPv6) : -

Virtual network/subnet : [TEB-vnet/default](#)

DNS name : [Configure](#)

Size

Size : Standard D51 v2

vCPUs : 1

RAM : 3.5 GiB

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TEB | Connect

Virtual machine

Search

Overview

Activity log

Access control (IAM)

Tags

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Advisor recommendations

Extensions + applications

Continuous delivery

Availability + scaling

Configuration

Identity

Private

To improve security, enable just-in-time access on this VM. →

Connect with RDP

Suggested method for connecting

Azure has checked the status for the most common prerequisites when connecting using this method.

An inbound network security group rule has been created and your client IP address can access port 3389. [Learn more](#)

The VM's network interface has a Public IP address. [Learn more](#)

The VM is running.

To connect to your virtual machine via RDP, select an IP address, optionally change the port number, and download the RDP file.

IP address *
Public IP address (20.204.175.208)

Port number *
3389

Download RDP File

Can't connect?

Test your connection

Troubleshoot RDP connectivity issues

Provide feedback

Tell us about your RDP experience

TEB.rdp
Completed — 88 bytes
Show all downloads

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

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TEB | Connect

Virtual machine

Search

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

Settings

- Networking
- Connect
- Windows Admin Center
- Disks
- Size
- Microsoft Defender for Cloud
- Advisor recommendations
- Extensions + applications
- Continuous delivery
- Availability + scaling
- Configuration
- Identity
- Properties

To improve security, enable just-in-time access on this VM. →

^ Suggested method for connecting

Azure has checked the status for the most common reasons you can't connect:

- ✓ An inbound network security group rule has port 3389.
- ✓ The VM's network interface has a Public IP address.
- ✓ The VM is running.

To connect to your virtual machine via RDP, select the RDP file.

IP address *

Public IP address (20.204.175.208)

Port number *

3389

Download RDP File

Can't connect?

- Test your connection
- Troubleshoot RDP connectivity issues

Provide feedback

- Tell us about your RDP experience

Remote Desktop Connection

The publisher of this remote connection can't be identified. Do you want to connect anyway?

This remote connection could harm your local or remote computer. Do not connect unless you know where this connection came from or have used it before.

Publisher: Unknown publisher
Type: Remote Desktop Connection
Remote computer: 20.204.175.208

☐ Don't ask me again for connections to this computer

Show Details Connect Cancel

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TEB | Connect

Virtual machine

Search

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- Properties

To improve security, enable just-in-time access on this VM. →

^ Suggested method for connecting

Azure has checked the status for the most common reasons you can't connect:

- ✓ An inbound network security group rule has port 3389.
- ✓ The VM's network interface has a Public IP address.
- ✓ The VM is running.

To connect to your virtual machine via RDP, select the RDP file.

IP address *

Public IP address (20.204.175.208)

Port number *

3389

Download RDP File

Can't connect?

- Test your connection
- Troubleshoot RDP connectivity issues

Provide feedback

- Tell us about your RDP experience

Windows Security

Enter your credentials

These credentials will be used to connect to 20.204.175.208.

TEB

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☐ Remember me

OK Cancel

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Home > CreateVm-MicrosoftWindowsServer-201-20230411143810 | Overview > TEB

TEB | Connect

Virtual machine

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

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Identity

Properties

To improve security, enable just-in-time access on this virtual machine.

Connect with RDP

Suggested method for connecting

Azure has checked the status for the most common issues.

An inbound network security group rule has been configured to allow RDP access on port 3389.

The VM's network interface has a Public IP address.

The VM is running.

To connect to your virtual machine via RDP, select an RDP file.

IP address *

Public IP address (4.188.238.191)

Port number *

3389

Download RDP File

Can't connect?

Test your connection

Troubleshoot RDP connectivity issues

Provide feedback

Tell us about your RDP experience

Remote Desktop Connection

The identity of the remote computer cannot be verified. Do you want to connect anyway?

The remote computer could not be authenticated due to problems with its security certificate. It may be unsafe to proceed.

Certificate name

Name in the certificate from the remote computer: TEB

Certificate errors

The following errors were encountered while validating the remote computer's certificate:

The certificate is not from a trusted certifying authority.

Do you want to connect despite these certificate errors?

☐ Don't ask me again for connections to this computer

View certificate...

Yes

No