

EX.NO:06

REG.NO:210701300

DATE:

## **PUBLIC CLOUD CREATING AN INSTANCE IN MICROSOFT AZURE**

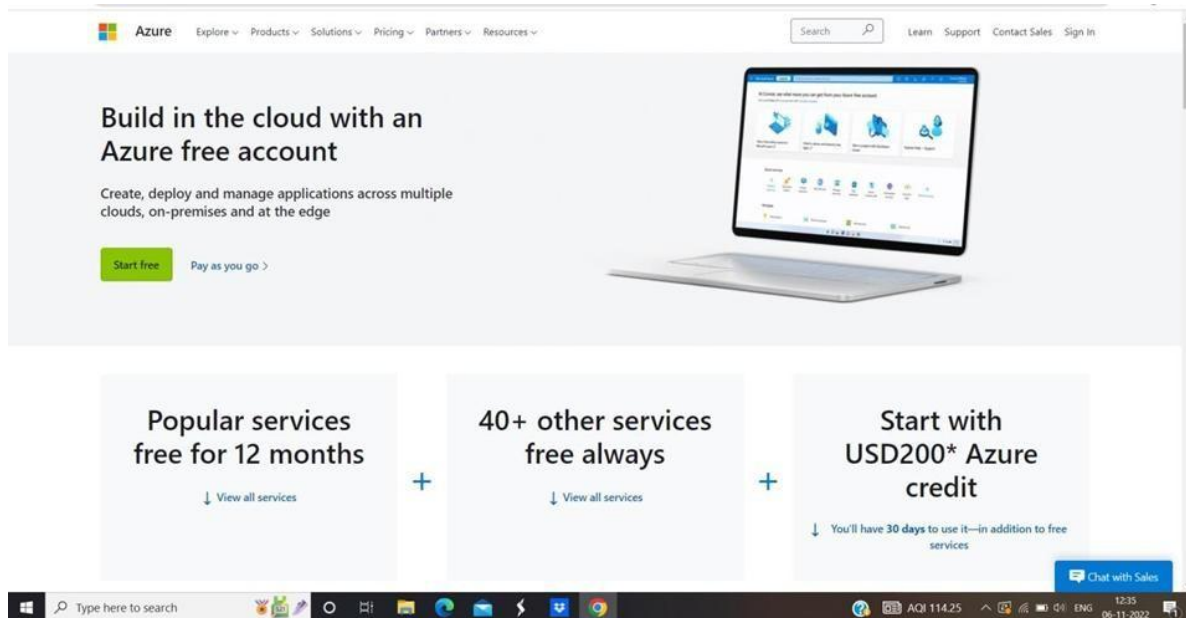
### **AIM:**

Develop a simple application to understand the concept of PAAS using Microsoft Azure.

### **PROCEDURE:**

1. Sign in to the Azure portal
2. Select Azure SQL on the left menu of the Azure portal.
3. Select +Add to open the Select SQL deployment option page.
4. Select Create.

### **OUTPUT:**



DEFULT DIRECTORY

Azure services

Create a resource

Resource groups

SQL databases

All resources

Cost Management...

Quickstart Center

Virtual machines

App Services

Storage accounts

More services

Resources

Recent

Favorite

Name

Type

Last Viewed

No resources have been viewed recently

View all resources

Navigate

Subscriptions

Resource groups

All resources

Dashboard

## Create a resource

Get Started

Recently created

Categories

AI + Machine Learning

Analytics

Blockchain

Compute

Containers

Databases

Developer Tools

DevOps

Identity

Integration

Internet of Things

IT & Management Tools

Media

Migration

Mixed Reality

Search services and marketplace

Getting Started? Try our Quickstart center

Popular Azure services

See more in All services

Virtual machine

Create | Learn more

Azure Kubernetes Service (AKS)

Create | Docs | MS Learn

Azure Cosmos DB

Create | Docs | MS Learn

Function App

Create | Docs

SQL Database

Create | Docs | MS Learn

Storage account

Create | Docs | MS Learn

DevOps Starter

Create | Docs | MS Learn

Web App

Popular Marketplace products

See more in Marketplace

Windows Server 2019 Datacenter

Create | Learn more

Ubuntu Server 20.04 LTS

Create | Learn more

Windows 10 Pro, version 20H2

Create | Learn more

Ubuntu Server 18.04 LTS

Create | Learn more

Free 100

Set up + subscribe | Learn more

Elastic Cloud - Pay as you Go

Set up + subscribe | Learn more

StartStopV2

Create | Learn more

Single VM

Home > Create a resource >

## Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + 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 \*

Azure for Students

Resource group \*

(New) Resource group

Create new

### Instance details

Virtual machine name \*

Region \*

(Asia Pacific) Central India

Availability options

No infrastructure redundancy required

Size

Standard

Home > Create a resource >

## Create a virtual machine

**Essential settings**

Virtual machine name \*

Region \*

Availability options

Security type

Image \*

VM architecture

Run with Azure Spot discount ☐

Size \*

Administrator account

Authentication type

Marketplace images to get started

- Ubuntu Server 20.04 LTS - Gen2
- Ubuntu Server 18.04 LTS - Gen2
- SUSE Enterprise Linux 15 SP3 +Patching - Gen2
- Red Hat Enterprise Linux 8.2 (LVM) - Gen2
- Oracle Linux 8.5 (LVM) - Gen2
- Debian 11 "Bullseye" - Gen2
- CentOS-based - Gen2
- Windows Server 2022 Datacenter: Azure Edition - Gen2
- Windows Server 2019 Datacenter - Gen2

Home > Create a resource > Create a virtual machine >

## Select a VM size

Search by VM size... Display cost: Monthly vCPUs: All RAM (GiB): All Add filter

Showing 547 VM sizes | Subscription: Azure for Students | Region: Central India | Current size: Standard\_D2s\_v3 | Image: Ubuntu Server 18.04 LTS | Learn more about VM sizes | Group by series

VM Size	Type	vCPUs	RAM (GiB)	Data disks	Max IOPS	Temp storage (GiB)	Premium disk	Cost/month
Most used by Azure users								
The most used sizes by users in Azure								
DS1_v2	General purpose	1	3.5	4	3200	7	Supported	Loading...
D2s_v3	General purpose	2	8	4	3200	16	Supported	Loading...
D2as_v4	General purpose	2	8	4	3200	16	Supported	Loading...
B2s	General purpose	2	4	4	1280	8	Supported	Loading...
B1s	General purpose	1	1	2	320	4	Supported	Loading...
B2ms	General purpose	2	8	4	1920	16	Supported	Loading...
B1ls	General purpose	1	0.5	2	320	4	Supported	Loading...
DS2_v2	General purpose	2	7	8	6400	14	Supported	Loading...
B4ms	General purpose	4	16	8	2880	32	Supported	Loading...
D4s_v3	General purpose	4	16	8	6400	32	Supported	Loading...
DS3_v2	General purpose	4	14	16	12800	28	Supported	Loading...
D8s_v3	General purpose	8	32	16	12800	64	Supported	Loading...

**Azure** Contact Sales Free account

Virtual Machines 1 D2 v3 (2 vCPUs, 8 GB RAM) x 730 Hours (Pay as y... Upfront: \$0.00 Monthly: \$152.62

**Virtual Machines**

REGION: West US OPERATING SYSTEM: Windows TYPE: (OS Only) TIER: Standard

CATEGORY: All INSTANCE SERIES: All

Virtual machines 1 x 730 Hours

**Savings Options**

Save up to 72% on pay-as-you-go prices with 1-year or 3-year Reserved Virtual Machine applications that require reserved capacity. Learn more about Reserved VM Instances pricing

**Compute (D2 v3)**

☒ Pay as you go

☐ 1 year reserved (~32% discount)

☐ 3 year reserved (~57% discount)

**OS (Windows)**

☒ License included

☐ Azure Hybrid Benefit

INSTANCE: Select from the options below or type to search

- A0: 1 Cores, 0.75 GB RAM, 20 GB Temporary storage, \$0.020/hour
- A1: 1 Cores, 1.75 GB RAM, 70 GB Temporary storage, \$0.090/hour
- A2: 2 Cores, 3.5 GB RAM, 135 GB Temporary storage, \$0.180/hour
- A3: 4 Cores, 7 GB RAM, 285 GB Temporary storage, \$0.360/hour
- A4: 8 Cores, 14 GB RAM, 605 GB Temporary storage, \$0.720/hour
- A5: 2 Cores, 14 GB RAM, 135 GB Temporary storage, \$0.330/hour
- A6: 4 Cores, 28 GB RAM, 285 GB Temporary storage, \$0.660/hour

\$152.57

[Home](#) >

CreateVm-Canonical.UbuntuServer-18\_04-lts-gen2-20220922215135 | Overview

Deployment

<< Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

We'd love your feedback! →

Deployment is in progress

Deployment name: CreateVm-Canonical.UbuntuServer-18\_04-lts-g...

Subscription: [Azure for Students](#)

Resource group: [cloud-instance-test](#)

Start time: 9/22/2022, 9:57:02 PM

Correlation ID: [c93aee71-a666-4a3c-835b-2d4d059eba8f](#)

Deployment details

Resource	Type	Status	Operation details
No results.			

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 >](#)

[Home](#) >

CreateVm-Canonical.UbuntuServer-18\_04-lts-gen2-20220922215135 | Overview

Deployment

<< Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

We'd love your feedback! →

Deployment is in progress

Deployment name: CreateVm-Canonical.UbuntuServer-18\_04-lts-g...

Subscription: [Azure for Students](#)

Resource group: [cloud-instance-test](#)

Start time: 9/22/2022, 9:57:02 PM

Correlation ID: [c93aee71-a666-4a3c-835b-2d4d059eba8f](#)

Deployment details

Resource	Type	Status	Operation details
cloud-instance-test-vnet	Microsoft.Network/virtualNet...	Created	<a href="#">Operation details</a>
instance1-nsg	Microsoft.Network/networkSe...	OK	<a href="#">Operation details</a>
instance1-ip	Microsoft.Network/publicIP...	OK	<a href="#">Operation details</a>

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 >](#)

instance1

Virtual machine

Search

ConnectStartRestartStopCaptureDeleteRefreshOpen in mobileCLI / PSFeedback

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

Essentials

Resource group (move) : cloud-instance-test

Status : Running

Location : Central India

Subscription (move) : Azure for Students

Subscription ID : f6bb6015-7d4e-4afe-9511-4ac02abde52c

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

Operating system : Linux (ubuntu 18.04)

Size : Standard B1s (1 vcpu, 1 GiB memory)

Public IP address : [20.219.255.142](#)

Virtual network/subnet : [cloud-instance-test-vnet/default](#)

DNS name : [Not configured](#)

Properties

Monitoring

Capabilities (7)

Recommendations

Tutorials

Virtual machine

Computer name : instance1

Health state : -

Operating system : Linux (ubuntu 18.04)

Publisher : Canonical

Offer : UbuntuServer

Plan : 18\_04-lts-gen2

VM generation : V2

Networking

Public IP address : [20.219.255.142](#)

Public IP address (IPv6) : -

Private IP address : 10.0.0.4

Private IP address (IPv6) : -

Virtual network/subnet : [cloud-instance-test-vnet/default](#)

DNS name : [Configure](#)

Azure services

Create a resource

Resource groups

SQL databases

All resources

Cost Management...

Quickstart Center

Virtual machines

App Services

Storage accounts

More services

Resources

Recent

Favorite

Name

Type

Last Viewed

instance1

Virtual machine

a few seconds ago

cloud-instance-test

Resource group

a few seconds ago

See all

Navigate

Subscriptions

Resource groups

All resources

Dashboard

Home > Create a resource >

## Create a virtual machine

Validation passed

Management

Microsoft Defender for Cloud

System assigned managed identity

Login with Azure AD

Auto-shutdown

Backup

Enable hotpatch

Patch orchestration options

Basic (free)

Off

Off

Off

Disabled

Off

Image Default

Monitoring

Boot diagnostics

Enable OS guest diagnostics

On

Off

Advanced

Extensions

VM applications

Cloud init

User data

None

None

No

No

home >

## CreateVm-Canonical.UbuntuServer-18\_04-lts-gen2-20220922215135 | Overview

Deployment

Search << Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

We'd love your feedback! →

✓ Your deployment is complete

Deployment name: CreateVm-Canonical.UbuntuServer-18\_04-lts-g... Start time: 9/22/2022, 9:57:02 PM  
Subscription: Azure for Students Correlation ID: c93aee71-a666-4a3c-835b-2d4d059eba8f

Resource group: cloud-instance-test

Deployment details

Next steps

Setup auto-shutdown Recommended

Monitor VM health, performance and network dependencies Recommended

Run a script inside the virtual machine Recommended

[Go to resource](#) [Create another VM](#)

Cost Management

Get notified to stay within your budget  
prevent unexpected charges on your bill  
[Set up cost alerts >](#)

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 help you design, build, and manage your Azure environment.

## RESULT:

Thus an application instance has been created in Microsoft Azure successfully.