EX. NO: 6
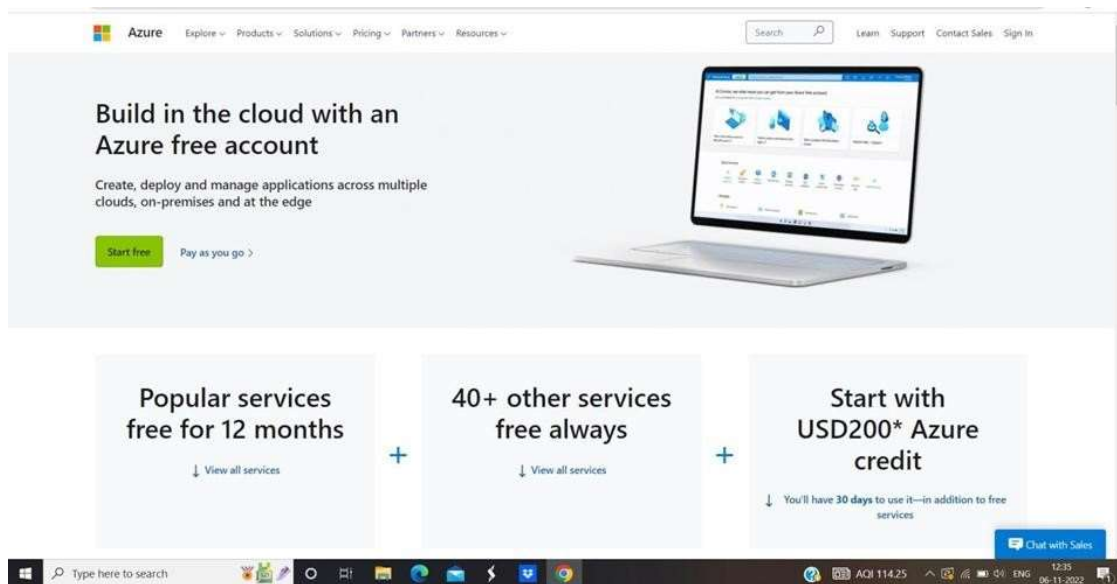
PUBLIC CLOUD

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:

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

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Navigate

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Home >

Create a resource

Get Started

Recently created

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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

ℹ 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

Home > Create a resource >

Create a virtual machine ...

Instance details

Virtual machine name * ⓘ	instance1 ✓
Region * ⓘ	(Asia Pacific) Central India ⌄
Availability options ⓘ	No infrastructure redundancy required ⌄
Security type ⓘ	Standard ⌄
Image * ⓘ	🔵 Ubuntu Server 20.04 LTS - Gen2 ⌄
VM architecture ⓘ	**Marketplace images to get started**
	🔵 Ubuntu Server 20.04 LTS - Gen2
	🔵 Ubuntu Server 18.04 LTS - Gen2
Run with Azure Spot discount ⓘ	🟢 SUSE Enterprise Linux 15 SP3 +Patching - Gen2
Size * ⓘ	🔴 Red Hat Enterprise Linux 8.2 (LVM) - Gen2
	🔵 Oracle Linux 8.5 (LVM) - Gen2
Administrator account	🌀 Debian 11 "Bullseye" - Gen2
Authentication type ⓘ	CentOS-based 7.9 - 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**   ⊹ᐁ 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 accou]

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

CATEGORY:	INSTANCE SERIES:	INSTANCE:
All ⌄	All ⌄	🔍 Select from the options below or type to search ⌄

Virtual machines

[1 ⌄] × [730 ⌄] Hours

- 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

Savings Options

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

Compute (D2 v3)	OS (Windows)
⦿ Pay as you go	⦿ License included
○ 1 year reserved (~32% discount)	○ Azure Hybrid Benefit
○ 3 year reserved (~57% discount)	

= $152.57

Home >

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

Search	«
Overview	
Inputs	
Outputs	
Template	

Delete Cancel Redeploy Download Refresh

We'd love your feedback! →

... Deployment is in progress

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

Resource	Type	Status	Operation details
No results.			

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

Search	«
Overview	
Inputs	
Outputs	
Template	

Delete Cancel Redeploy Download Refresh

We'd love your feedback! →

... Deployment is in progress

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

Resource	Type	Status	Operation details
cloud-instance-test-vnet	Microsoft.Network/virtualNet...	Created	Operation details
instance1-nsg	Microsoft.Network/networkSe...	OK	Operation details
instance1-ip	Microsoft.Network/publicIpA...	OK	Operation details

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

instance1 ⚙ ☆ ⋯
Virtual machine

🔍 Search   «

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

🔌 Connect ∨ ▷ Start ↻ Restart ☐ Stop ▣ Capture 🗑 Delete ↻ Refresh 📱 Open in mobile 🖥 CLI / PS 🗨 Feedback

∧ **Essentials**

Resource group (move) : cloud-instance-test	Operating system : Linux (ubuntu 18.04)
Status : Running	Size : Standard B1s (1 vcpu, 1 GiB memory)
Location : Central India	Public IP address : 20.219.255.142
Subscription (move) : Azure for Students	Virtual network/subnet : cloud-instance-test-vnet/default
Subscription ID : f6bb6015-7d4e-4afe-9511-4ac02abde52c	DNS name : Not configured
Tags (edit) : Click here to add tags	

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

DEFAULT DIRECTOR

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	Basic (free)
System assigned managed identity	Off
Login with Azure AD	Off
Auto-shutdown	Off
Backup	Disabled
Enable hotpatch	Off
Patch orchestration options	Image Default

Monitoring

Boot diagnostics	On
Enable OS guest diagnostics	Off

Advanced

Extensions	None
VM applications	None
Cloud init	No
User data	No

RESULT:

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