

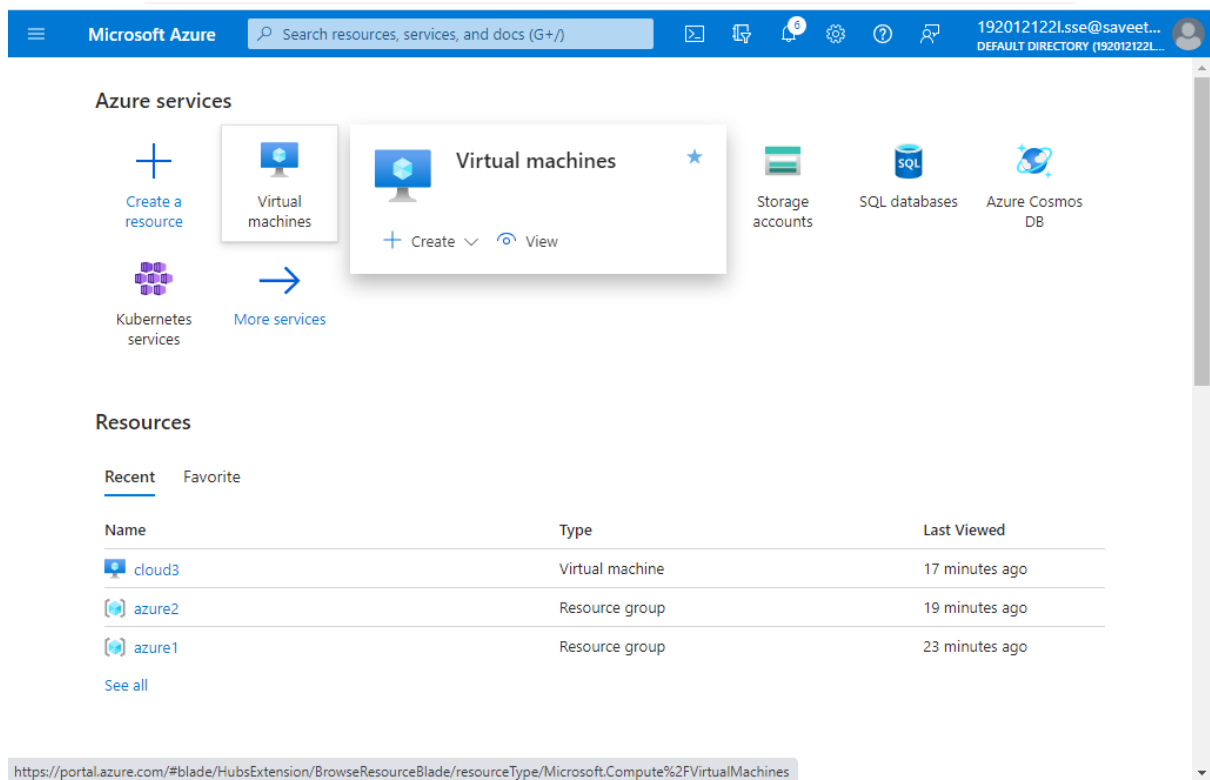
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EXPERIMENT-13:

Demonstrate Infrastructure as a Service (IaaS) by creating a Virtual Machine using a Public Cloud Service Provider (Azure), configure with required memory and CPU.

STEPS:



Microsoft Azure

Search resources, services, and docs (G+)

1920121221.sse@saveet...
DEFAULT DIRECTORY (192012122L...

Home >

Virtual machines

Default Directory (1920121221.sse@saveet...)

+ Create

Switch to classic

Reservations

Manage view

Refresh

Export to CSV

Open query

Assign tags

Filter for any field...

Subscription equals all

Type equals all

Add filter

More (2)

Showing 1 to 1 of 1 records.

No grouping

List view

<input type="checkbox"/>	Name ↑↓	Type ↑↓	Subscription ↑↓	Resource group ↑↓	Location ↑↓	Status ↑↓	Operating s
<input type="checkbox"/>	cloud3	Virtual machine	Azure for Students	azure1	Central India	Stopped (deallocated)	Linux

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Give feedback

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Virtual machines

Default Directory (1920121221.sse@saveet...)

+ Create

Switch to classic

Reservations

Manage view

Refresh

Export to CSV

Open query

Assign tags

Azure virtual machine

Create a virtual machine hosted by Azure

Azure virtual machine with preset configuration

Create a virtual machine with presets based on your workloads

Azure Arc virtual machine

Create a new Azure Arc virtual machine in one of your non-Azure environments

Azure VMware Solution virtual machine

Create a VMware virtual machine hosted by Azure

Type equals all

Add filter

More (2)

No grouping

List view

Subscription ↑↓	Resource group ↑↓	Location ↑↓	Status ↑↓	Operating :
Azure for Students	azure1	Central India	Stopped (deallocated)	Linux

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Microsoft Azure

Search resources, services, and docs (G+)

192012122L.sse@saveet...
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Home > Virtual machines >

Create a virtual machine

×

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 *

azure2

Create new

Instance details

Virtual machine name *

cloud4

Region *

(Asia Pacific) South India

Availability options

No infrastructure redundancy required

Security type

Trusted launch virtual machines

Configure security features

Image *

Ubuntu Server 20.04 LTS - x64 Gen2

See all images | Configure VM generation

Review + create

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Next : Disks >

Give feedback

Microsoft Azure

Search resources, services, and docs (G+)

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DEFAULT DIRECTORY (192012122L...

Home > Virtual machines >

Create a virtual machine

×

Administrator account

See all sizes

Authentication type

SSH public key

☒ Password

Username *

Mrudula1807

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 *

SSH (22)

Review + create


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Next : Disks >


Give feedback

Create a virtual machine ...


OS disk


OS disk type 


Premium SSD (locally-redundant storage) 

Delete with VM 

☒

Key management 

Platform-managed key 

Enable Ultra Disk compatibility 

☐

Ultra disk is not supported with selected security type.

Data disks for cloud4

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.


LUN	Name	Size (GiB)	Disk type	Host caching	Delete with VM
Create and attach a new disk	Attach an existing disk				

Advanced

Review + create

[< Previous](#)

Next : Networking >

 Give feedback

Create a new disk ...

Create a new disk to store applications and data on your VM. Disk pricing varies based on factors including disk size, storage type, and number of transactions. [Learn more](#)

Name *	<input type="text" value="cloud4_DataDisk_0"/>
Source type * ⓘ	<input type="text" value="None (empty disk)"/>
Size * ⓘ	<div>64 GiB Premium SSD LRS Change size</div>
Key management ⓘ	<input type="text" value="Platform-managed key"/>
Enable shared disk	<input type="radio"/> Yes <input checked="" type="radio"/> No
Delete disk with VM	<input type="checkbox"/>

OK

Create a virtual machine ...



☒ Allow selected ports

Select inbound ports *

SSH (22)

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.

Delete public IP and NIC when VM is deleted

☐

Enable accelerated networking

☒

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Place this virtual machine behind an existing load balancing solution?

☐

[Review + create](#)

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[Next : Management >](#)

[Give feedback](#)

Create a virtual machine ...



Azure AD

Login with Azure AD

☐

RBAC role assignment of Virtual Machine Administrator Login or Virtual Machine User Login is required when using Azure AD login. [Learn more](#)

Azure AD login now uses SSH certificate-based authentication. You will need to use an SSH client that supports OpenSSH certificates. You can use Azure CLI or Cloud Shell from the Azure Portal. [Learn more](#)

Auto-shutdown

Enable auto-shutdown

☐

Backup

Enable backup

☐

Guest OS updates

Patch orchestration options

Image default

Some patch orchestration options are not available for this image. [Learn more](#)

[Review + create](#)

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[Next : Monitoring >](#)

[Give feedback](#)

Create a virtual machine ...



Basics Disks Networking Management **Monitoring** Advanced Tags Review + create

Configure monitoring options for your VM.

Alerts

Enable recommended alert rules ⓘ ☐

Diagnostics

Boot diagnostics ⓘ ☒ Enable with managed storage account (recommended)
☐ Enable with custom storage account
☐ Disable

Enable OS guest diagnostics ⓘ ☐

Review + create

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Next : Advanced >

Give feedback

[Home](#) > [Virtual machines](#) >

Create a virtual machine ...



Host

Azure Dedicated Hosts allow you to provision and manage a physical server within our data centers that are dedicated to your Azure subscription. A dedicated host gives you assurance that only VMs from your subscription are on the host, flexibility to choose VMs from your subscription that will be provisioned on the host, and the control of platform maintenance at the level of the host. [Learn more](#)

Host group ⓘ

Capacity reservations

Capacity reservations allow you to reserve capacity for your virtual machine needs. You get the same SLA as normal virtual machines with the security of reserving the capacity ahead of time. [Learn more](#)

Capacity reservation group ⓘ

Proximity placement group

Proximity placement groups allow you to group Azure resources physically closer together in the same region. [Learn more](#)

Proximity placement group ⓘ

Review + create

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Next : Tags >

Give feedback

Create a virtual machine ...



Basics Disks Networking Management Monitoring Advanced **Tags** Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name ⓘ	Value ⓘ	Resource
ubuntu2	15	13 selected
	15	13 selected

Review + create

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Next : Review + create >

Give feedback

Create a virtual machine ...



Validation passed

Tags

ubuntu2	15 (Auto-shutdown schedule)
ubuntu2	15 (Availability set)
ubuntu2	15 (Disk)
ubuntu2	15 (Network interface)
ubuntu2	15 (Network security group)
ubuntu2	15 (Public IP address)
ubuntu2	15 (Recovery Services vault)
ubuntu2	15 (SQL Virtual Machine)
ubuntu2	15 (SSH key)
ubuntu2	15 (Storage account)
ubuntu2	15 (Virtual machine)
ubuntu2	15 (Virtual machine extension)
ubuntu2	15 (Virtual network)

Create

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[Download a template for automation](#)

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Microsoft Azure

Search resources, services, and docs (G+)

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Home >

CreateVm-canonical.0001-com-ubuntu-server-focal-2-20230711011845

Deployment

Search

«

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

✓

Your deployment is complete

Deployment name: CreateVm-c...

Subscription: Azure for Students

Resource group: azure2

Start time: 7/11/202...

Correlation ID: fa463ex

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

Give feedback

Tell us about your experience with deployment

✓

Deployment succeeded

Deployment 'CreateVm-canonical.0001-com-ubuntu-server-focal-2-20230711011845' to resource group 'azure2' was successful.

Go to resource

Pin to dashboard

Cost Management

Get notified to stay within your budget and 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 can help manage your assets on Azure