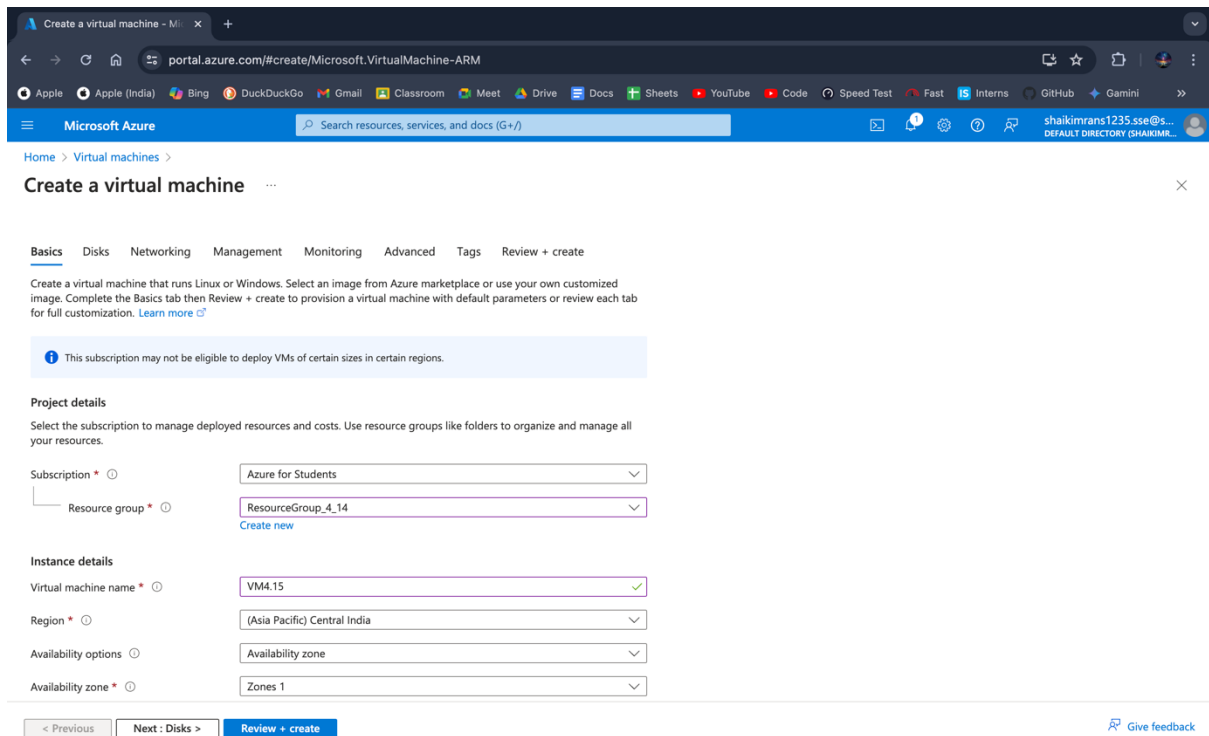


Demonstrate Infrastructure as a Service (IaaS) by creating a Virtual Machine using a Public Cloud Service Provider (Azure), configure with required memory and CPU.



The screenshot shows the 'Create a virtual machine' page in the Azure portal, specifically the 'Basics' tab. The page is titled 'Create a virtual machine' and includes a breadcrumb trail: 'Home > Virtual machines > Create a virtual machine'. Below the title, there are tabs for 'Basics', 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', 'Tags', and 'Review + create'. A note states: '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](#)'. A warning message indicates: 'This subscription may not be eligible to deploy VMs of certain sizes in certain regions.' The 'Project details' section asks to 'Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.' It shows 'Subscription' as 'Azure for Students' and 'Resource group' as 'ResourceGroup_4_14'. The 'Instance details' section includes 'Virtual machine name' (VM4.15), 'Region' ((Asia Pacific) Central India), 'Availability options' (Availability zone), and 'Availability zone' (Zones 1). Navigation buttons at the bottom are '< Previous', 'Next : Disks >', and 'Review + create'. A 'Give feedback' link is also present.

Create a virtual machine - Microsoft Azure

Home > Virtual machines > 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 * ResourceGroup_4_14 [Create new](#)

Instance details

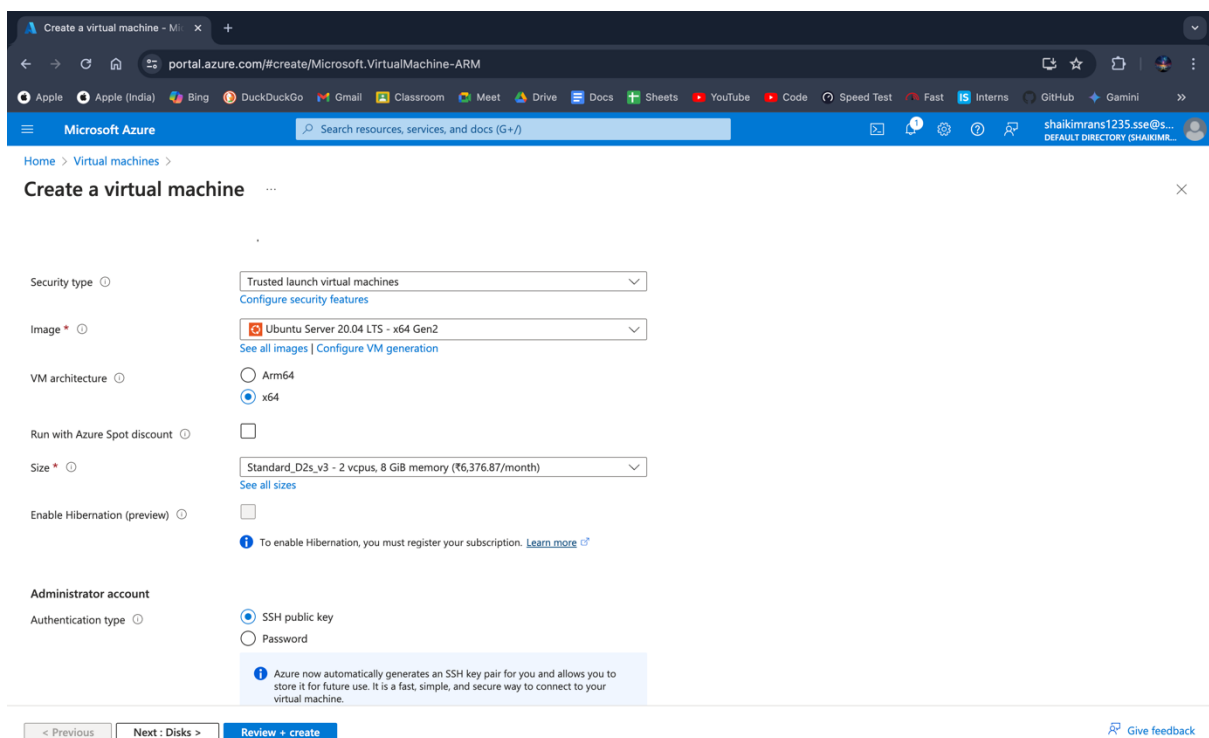
Virtual machine name * VM4.15

Region * (Asia Pacific) Central India

Availability options Availability zone

Availability zone * Zones 1

< Previous Next : Disks > Review + create [Give feedback](#)



The screenshot shows the 'Create a virtual machine' page in the Azure portal, specifically the 'Disks' tab. The page is titled 'Create a virtual machine' and includes a breadcrumb trail: 'Home > Virtual machines > Create a virtual machine'. Below the title, there are tabs for 'Basics', 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', 'Tags', and 'Review + create'. The 'Security type' is set to 'Trusted launch virtual machines'. The 'Image' is 'Ubuntu Server 20.04 LTS - x64 Gen2'. The 'VM architecture' is 'x64'. The 'Run with Azure Spot discount' checkbox is unchecked. The 'Size' is 'Standard_D2s_v3 - 2 vcpus, 8 GiB memory (₹6,376.87/month)'. The 'Enable Hibernation (preview)' checkbox is unchecked. The 'Administrator account' section shows 'Authentication type' as 'SSH public key'. A note states: 'Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.' Navigation buttons at the bottom are '< Previous', 'Next : Disks >', and 'Review + create'. A 'Give feedback' link is also present.

Create a virtual machine - Microsoft Azure

Home > Virtual machines > Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Security type

Trusted launch virtual machines [Configure security features](#)

Image *

Ubuntu Server 20.04 LTS - x64 Gen2 [See all images](#) [Configure VM generation](#)

VM architecture

Arm64

x64

Run with Azure Spot discount

☐

Size *

Standard_D2s_v3 - 2 vcpus, 8 GiB memory (₹6,376.87/month) [See all sizes](#)

Enable Hibernation (preview)

☐

To enable Hibernation, you must register your subscription. [Learn more](#)

Administrator account

Authentication type

SSH public key

Password

Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.

< Previous Next : Disks > Review + create [Give feedback](#)

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

Create a virtual machine - Microsoft Azure

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Home > Virtual machines >

Create a virtual machine

Authentication type

☒ SSH public key

☐ Password

Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.

Username *

azureuser

SSH public key source

Generate new key pair

Key pair name *

VM4.15_key

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)

All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

< Previous Next : Disks > Review + create

Give feedback

Create a new disk - Microsoft Azure

portal.azure.com/#view/Microsoft_Azure_Compute/CreateDataDiskBlade/subscriptionId/1715f29d-75a2-463e-afb2-6df6cb91db89/resourceGroupName/R...

Home > Virtual machines > Create a virtual machine >

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 *

VM4.15_DataDisk_0

Source type *

None (empty disk)

Size *

32 GiB

Premium SSD LRS

[Change size](#)

Key management

Loading...

Enable shared disk

☐ Yes ☒ No

Delete disk with VM

☒

OK

Give feedback

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

Create a virtual machine - Microsoft Azure

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Home > Virtual machines >

Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host ☐

Encryption at host is not registered for the selected subscription. [Learn more about enabling this feature](#)

OS disk

OS disk size

OS disk type

Delete with VM ☒

Key management

Enable Ultra Disk compatibility ☐

Data disks for VM4.15

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

< Previous Next: Networking > Review + create

[Give feedback](#)

Create a virtual machine - Microsoft Azure

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Home > Virtual machines >

Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Encryption at host is not registered for the selected subscription. [Learn more about enabling this feature](#)

OS disk

OS disk size

OS disk type

Delete with VM ☒

Key management

Enable Ultra Disk compatibility ☐

Data disks for VM4.15

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
0	VM4.15_DataDisk_0	32	Premium SSD LRS	Read-only	<input checked="" type="checkbox"/>

[Create and attach a new disk](#) [Attach an existing disk](#)

Advanced

< Previous Next: Networking > Review + create

[Give feedback](#)

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

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal, specifically the 'Networking' tab. The browser address bar shows 'portal.azure.com/#create/Microsoft.VirtualMachine-ARM'. The page title is 'Create a virtual machine'. The breadcrumb navigation is 'Home > Virtual machines >'. The tabs at the top are 'Basics', 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', 'Tags', and 'Review + create'. The 'Networking' tab is active, showing instructions: 'Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more](#)'. Below the instructions, the 'Network interface' section states: 'When creating a virtual machine, a network interface will be created for you.' The configuration fields are: 'Virtual network' (dropdown: '(new) VM4.15-vnet', with a 'Create new' link), 'Subnet' (dropdown: '(new) default (10.0.0.0/24)', with a 'Create new' link), 'Public IP' (dropdown: '(new) VM4.15-ip', with a 'Create new' link), 'NIC network security group' (radio buttons: 'None', 'Basic' (selected), 'Advanced'), 'Public inbound ports' (radio buttons: 'None', 'Allow selected ports' (selected)), and 'Select inbound ports' (dropdown: 'SSH (22)'). At the bottom, there are navigation buttons: '< Previous', 'Next : Management >', and 'Review + create'. A 'Give feedback' link is also present.

This screenshot shows the continuation of the 'Create a virtual machine' wizard in the Microsoft Azure portal, still in the 'Networking' tab. The browser address bar and page title remain the same. The breadcrumb navigation is 'Home > Virtual machines >'. The 'Public inbound ports' section shows 'Allow selected ports' selected. The 'Select inbound ports' dropdown is 'SSH (22)'. Below this, a warning message states: '⚠ 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.' Below the warning, there are two checkboxes: 'Delete public IP and NIC when VM is deleted' (unchecked) and 'Enable accelerated networking' (checked). The 'Load balancing' section has instructions: 'You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)'. The 'Load balancing options' section has radio buttons: 'None' (selected), 'Azure load balancer' (with subtext 'Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.'), and 'Application gateway' (with subtext 'Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.'). At the bottom, the navigation buttons are '< Previous', 'Next : Management >', and 'Review + create'. A 'Give feedback' link is also present.

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

The screenshot shows the 'Create a virtual machine' page in the Azure portal, specifically the 'Management' tab. The page is titled 'Create a virtual machine' and has a breadcrumb trail 'Home > Virtual machines >'. Below the title, there are tabs for 'Basics', 'Disks', 'Networking', 'Management' (selected), 'Monitoring', 'Advanced', 'Tags', and 'Review + create'. The 'Management' section is titled 'Configure management options for your VM.' and includes a section for 'Microsoft Defender for Cloud' with a green checkmark indicating the subscription is protected by the basic plan. Below this, there are two sections: 'Identity' and 'Microsoft Entra ID'. The 'Identity' section has a checkbox for 'Enable system assigned managed identity' which is currently unchecked. A tooltip explains that to enable this, the orchestration mode must be changed to 'Uniform' on the 'Basics' tab. The 'Microsoft Entra ID' section has a checkbox for 'Login with Microsoft Entra ID' which is also unchecked. A tooltip explains that RBAC role assignment is required for this login method. At the bottom of the page, there are navigation buttons: '< Previous', 'Next: Monitoring >', and 'Review + create' (highlighted in blue). A 'Give feedback' link is also present.

Create a virtual machine - Microsoft Azure

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Home > Virtual machines >

Create a virtual machine

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

Configure management options for your VM.

Microsoft Defender for Cloud

Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

✔ Your subscription is protected by Microsoft Defender for Cloud basic plan.

Identity

Enable system assigned managed identity ☐

To enable system-assigned managed identity, change your orchestration mode to Uniform on the Basics tab

Microsoft Entra ID

Login with Microsoft Entra ID ☐

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

Microsoft Entra ID 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](#)

< Previous Next: Monitoring > Review + create Give feedback

This screenshot shows the same 'Create a virtual machine' page in the Azure portal, but with additional configuration options visible. The 'Auto-shutdown' section has a checkbox for 'Enable auto-shutdown' which is checked. The 'Backup' section has a checkbox for 'Enable backup' which is unchecked. The 'Guest OS updates' section has a dropdown for 'Patch orchestration options' set to 'Azure-orchestrated' and a dropdown for 'Reboot setting' set to 'Reboot if required'. A tooltip indicates that some patch orchestration options are not available for this image. The navigation buttons at the bottom are the same as in the previous screenshot: '< Previous', 'Next: Monitoring >', and 'Review + create' (highlighted in blue). A 'Give feedback' link is also present.

Create a virtual machine - Microsoft Azure

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Home > Virtual machines >

Create a virtual machine

identity

To enable system-assigned managed identity, change your orchestration mode to Uniform on the Basics tab

Microsoft Entra ID

Login with Microsoft Entra ID ☐

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

Microsoft Entra ID 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 Azure-orchestrated

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

Reboot setting Reboot if required

< Previous Next: Monitoring > Review + create Give feedback

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

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal, specifically the 'Monitoring' tab. The browser address bar shows 'portal.azure.com/#create/Microsoft.VirtualMachine-ARM'. The page title is 'Create a virtual machine'. The navigation tabs are: Basics, Disks, Networking, Management, **Monitoring**, Advanced, Tags, and Review + create. The 'Monitoring' section is active, showing options for Alerts, Diagnostics, and Health. Under 'Diagnostics', 'Boot diagnostics' is selected with 'Enable with managed storage account (recommended)'. 'Enable OS guest diagnostics' is also selected. 'Enable application health monitoring' is not selected. At the bottom, there are navigation buttons: '< Previous', 'Next : Advanced >', and 'Review + create'. A 'Give feedback' link is also present.

Home > Virtual machines >

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 ☒

Health

Enable application health monitoring ☐

< Previous Next : Advanced > Review + create Give feedback

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal, specifically the 'Advanced' tab. The browser address bar shows 'portal.azure.com/#create/Microsoft.VirtualMachine-ARM'. The page title is 'Create a virtual machine'. The navigation tabs are: Basics, Disks, Networking, Management, Monitoring, **Advanced**, Tags, and Review + create. The 'Advanced' section is active, showing options for Extensions, VM applications, and Custom data and cloud init. Under 'Extensions', there is a link 'Select an extension to install'. Under 'VM applications', there is a link 'Select a VM application to install'. Under 'Custom data and cloud init', there is a text area for 'Custom data'. At the bottom, there are navigation buttons: '< Previous', 'Next : Tags >', and 'Review + create'. A 'Give feedback' link is also present.

Home > Virtual machines >

Create a virtual machine

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

Add additional configuration, agents, scripts or applications via virtual machine extensions or cloud-init.

Extensions

Extensions provide post-deployment configuration and automation.

Extensions

VM applications

VM applications contain application files that are securely and reliably downloaded on your VM after deployment. In addition to the application files, an install and uninstall script are included in the application. You can easily add or remove applications on your VM after create. [Learn more](#)

Custom data and cloud init

Pass a cloud-init script, configuration file, or other data into the virtual machine **while it is being provisioned**. The data will be saved on the VM in a known location. [Learn more about custom data for VMs](#)

Custom data

< Previous Next : Tags > Review + create Give feedback

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

Create a virtual machine - Microsoft Azure

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Home > Virtual machines >

Create a virtual machine

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + 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
aaa	: 10	All resources
bbb	: 10	All resources
cc	: 5	All resources
dd	: 5	13 selected
		13 selected

< Previous

Next : Review + create >

Review + create

Give feedback

Create a virtual machine - Microsoft Azure

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Home > Virtual machines >

Create a virtual machine

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + create

Validation passed

Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

Price

1 X Standard D2s v3
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply
8.7354 INR/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

NameImran Shaik

Preferred e-mail addressshaikimrans1235.sse@saveetha.com

< Previous

Next >

Create

Download a template for automation

Give feedback

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

Create a virtual machine - Microsoft Azure

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Home > Virtual machines >

Create a virtual machine

Validation passed

Basics

Subscription	Azure for Students
Resource group	ResourceGroup_4_14
Virtual machine name	VM4.15
Region	Central India
Availability options	Availability zone
Availability zone	1
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Image	Ubuntu Server 20.04 LTS - Gen2
VM architecture	x64
Size	Standard D2s v3 (2 vcpus, 8 GiB memory)
Authentication type	SSH public key
Username	azureuser
Key pair name	VM4.15_key
Public inbound ports	SSH
Azure Spot	No

< Previous Next > Create

Download a template for automation Give feedback

VM4.15 - Microsoft Azure

portal.azure.com/#@shaikimrans1235saseveetha.onmicrosoft.com/resource/subscriptions/1715f29d-75a2-463e-afb2-6df6cb91db89/resourcegroup...

Microsoft Azure

Home >

VM4.15

Virtual machine

Search

Connect Start Restart Stop Hibernate (preview) Capture Delete Refresh Open in mobile Feedback CLI / PS

Overview

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

Connect

- Connect
- Bastion

Networking

- Network settings
- Load balancing
- Application security groups
- Network manager

Settings

- Disks
- Extensions + applications
- Configuration
- Advisor recommendations

Essentials

Resource group	(move) ResourceGroup_4_14	Operating system	Linux (ubuntu 20.04)
Status	Running	Size	Standard D2s v3 (2 vcpus, 8 GiB memory)
Location	Central India (Zone 1)	Public IP address	98.70.76.132
Subscription	(move) Azure for Students	Virtual network/subnet	VM4.15-vnet/default
Subscription ID	1715f29d-75a2-463e-afb2-6df6cb91db89	DNS name	Not configured
Availability zone	1	Health state	-
Tags	(edit) aaa : 10 bbb : 10 cc : 5 dd : 5		

Properties Monitoring Capabilities (7) Recommendations Tutorials

Virtual machine

Computer name	VM4
Operating system	Linux (ubuntu 20.04)
Image publisher	canonical
Image offer	0001-com-ubuntu-server-focal
Image plan	20_04-lts-gen2
VM generation	V2
VM architecture	x64
Agent status	Ready
Agent version	2.10.0.8

Networking

Public IP address	98.70.76.132 (Network interface vm4.15495_z1)
Public IP address (IPv6)	-
Private IP address	10.0.0.4
Private IP address (IPv6)	-
Virtual network/subnet	VM4.15-vnet/default
DNS name	Configure

Size

Size	Standard D2s v3
------	-----------------