Azure services

| Create a resource | Resource groups | Front Door and CDN profiles | App Services | Web Application... | Subscriptions | Traffic Manager profiles | Static Web Apps | Web PubSub Service Replicas | More services |

Resources

Recent   **Favorite**

| Name | Type |

No resources have been favorited

Favorite resources to quickly navigate to them from the home page.

Select resources to favorite

Navigate

| Subscriptions | Resource groups | All resources | Dashboard |

❖ **Log in to Azure Portal**:

 ▪ Navigate to [Azure Portal](#).

❖ **Create a Resource Group**:

- Go to the "Resource groups" section.

Create a resource group   ⋯

Basics   Tags   Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. Learn more ⧉

Project details

Subscription * ⓘ   Pay-As-You-Go   ⌄

　　⎿ Resource group * ⓘ

Resource details

Region * ⓘ   (US) East US   ⌄

Review + create   < Previous   Next : Tags >

Create a resource group   ⋯

✓ Validation passed.

Basics   Tags   Review + create

Basics

Subscription   Pay-As-You-Go
Resource group   webserver
Region   East US

Tags

None

Create   < Previous   Next >   Download a template for automation

- Click "Add" and fill in the details (e.g., myResourceGroup).

- **Create a Virtual Machine**:

  - Go to the "Virtual Machines" section.
  - Click "Add" and fill in the necessary details:
    - **Subscription**: Select your subscription.
    - **Resource group**: Select `myResourceGroup`.
    - **Virtual machine name**: `myWebVM`.
    - **Region**: Choose a suitable region.
    - **Image**: Select `Ubuntu Server 20.04 LTS`.
    - **Size**: Select an appropriate size (e.g., `Standard_B1s` for cost efficiency).
    - **Authentication type**: SSH public key.
    - **Username**: `azureuser`.
    - **SSH public key**: Paste your SSH public key.

Search resources, services, and docs (G+/)

Copilot

Create a virtual machine   ...

Click here to try out the Azure Copilot for additional recommendations while creating a virtual machine →

Subscription * ⓘ
Pay-As-You-Go

Resource group * ⓘ
webserver
Create new

Instance details

Virtual machine name * ⓘ
Webserver ✓

Region * ⓘ
(US) East US

Availability options ⓘ
Availability zone

Availability zone * ⓘ
Zone 1

🧭 You can now select multiple zones. Selecting multiple zones will create one VM per zone. Learn more ⧉

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_B2s - 2 vcpus, 4 GiB memory (₹2,526.46/month)
See all sizes

Enable Hibernation ⓘ
☐

ⓘ Hibernate does not currently support Trusted launch and Confidential virtual machines for Linux images. 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... virtual machine.

Username * ⓘ
azuser

SSH public key source
Generate new key pair

SSH Key Type
● RSA SSH Format
○ Ed25519 SSH Format

🧭 Ed25519 offers better performance... still widely used particularly for leg...

Snipping Tool   ...   ✕

Screenshot copied to clipboard and saved
Select here to mark up and share.

< Previous   Next : Disks >   Review + create

Create a virtual machine   ···   ✕

> ⚠ The configuration of this virtual machine and its attached disk(s) does not allow for the disk(s) to utilize their full throughput   ✕
> performance. The current virtual machine size supports 23 MBps. The total for disk(s) attached to virtual machine 'Webserver'
> is 60 MBps. You can change the virtual machine size to support additional disk(s) throughput. Learn more ⧉

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 ⓘ | Image default (30 GiB)   ⌄ |

OS disk type * ⓘ | Standard HDD (locally-redundant storage)   ⌄ |

The selected VM size supports premium disks. We recommend Premium SSD for
high IOPS workloads. Virtual machines with Premium SSD disks qualify for the 99.9%
connectivity SLA.

Delete with VM ⓘ   ☑

Key management ⓘ | Platform-managed key   ⌄ |

Enable Ultra Disk compatibility ⓘ   ☐

Data disks for Webserver

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**

< Previous   Next : Networking >   **Review + create**   🗨 Give feedback

https://go.microsoft.com/fwlink/?LinkId=2229841

Create a virtual machine   ...   ✕

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

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 ⧉

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network * ⓘ   [(new) Webserver-vnet   ▽]
                          Create new

Subnet * ⓘ   [(new) default (10.0.0.0/24)   ▽]

Public IP ⓘ   [(new) Webserver-ip   ▽]
                          Create new

NIC network security group ⓘ   ○ None
                                ⦿ Basic
                                ○ Advanced

Public inbound ports * ⓘ   ○ None
                                ⦿ Allow selected ports

Select inbound ports *   [HTTP (80), HTTPS (443), 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 ⓘ   ☐   The selected VM size does not support accelerated networking.

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. Learn more ⧉

Load balancing options ⓘ   ⦿ None
                             ○ Azure load balancer
                               Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.
                             ○ Application gateway
                               Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.

[< Previous]   [Next : Management >]   [**Review + create**]   ℞ Give feedback

- **Configure Networking**:

  - **Virtual network**: Create a new virtual network or select an existing one.
  - **Subnet**: Default.
  - **Public IP**: Create a new public IP.
  - **NIC network security group**: Basic.
  - **Inbound port rules**: Allow SSH (port 22) and HTTP (port 80).

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 Foundational Cloud Security Posture Management Free Plan.

Identity

Enable system assigned managed identity ⓘ ☐

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 using Automatic guest patching ▽ |

ⓘ Some patch orchestration options are not available for this image. Learn more ⧉

Reboot setting ⓘ | Reboot if required ▽ |

< Previous   Next : Monitoring >   **Review + create**   👤 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 ⓘ   ☐

Health

Enable application health monitoring ⓘ   ☐

< Previous   Next : Advanced >   **Review + create**

▦ Snipping Tool   ...   ✕

Screenshot copied to clipboard and saved
Select here to mark up and share.

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 ⓘ   Select an extension to install

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 ⧉

Select a VM application to install

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

ⓘ Custom data on the selected image will be processed by cloud-init.
Learn more about custom data for VMs ⧉

User data

Pass a script, configuration file, or other data that will be accessible to your applications throughout the lifetime of the virtual machine. Don't use user data for storing your secrets or passwords. Learn more about user data for VMs ⧉

Enable user data   ☐

Performance (NVMe)

Enable capabilities to enhance the performance of your resources.

Higher remote disk storage performance   ☐
with NVMe ⓘ

ⓘ The selected size is not supported for NVMe. See supported size families ⧉

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 ⓘ | No host groups found   ⌄ |

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 ⧉

< Previous   Next : Tags >   **Review + create**   ⚏ 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
	:		13 selected ⌄

☑ Select all

☑ Auto-shutdown schedule

☑ Availability set

☑ Disk

☑ Network interface

☑ Network security group

☑ Public IP address

☑ Recovery Services vault

☑ SQL Virtual Machine

☑ SSH key

☑ Storage account

☑ Virtual machine

☑ Virtual machine extension

☑ Virtual network

< Previous   Next : Review + create >   Review + create

Home > Resource groups > webserver > Marketplace >

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.

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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 ⧉

Create a virtual machine

...   ✕

ℹ Running final validation...

ℹ Cost given below is an estimate and not the final price. For all your pricing needs, please use the pricing calculator. ⧉

Price

1 X Standard B2s	Subscription credits apply ⓘ
by Microsoft	**3.4609 INR/hr**
Terms of use | Privacy policy	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.

Name	sasikumar vasu
Preferred e-mail address	sasikumarvasu@outlook.com
Preferred phone number	

⚠ **You have set SSH port(s) open to the internet.** This is only recommended for testing. If you want to change this setting, go back to Basics tab.

Basics

Subscription	Pay-As-You-Go
Resource group	webserver
Virtual machine name	Webserver
Region	East US
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 B2s (2 vcpus, 4 GiB memory)
Enable Hibernation	No
Authentication type	SSH public key
Username	azuser
SSH Key format	RSA

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

Create a virtual machine ...   ✕

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

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by Microsoft
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Name | sasikumar vasu |

Preferred e-mail address | sasikumarvasu@outlook.com |

Preferred phone number | |

⚠ **You have set SSH port(s) open to the internet.** This is only recommended for testing. If you want to change this setting, go back to Basics tab.

Basics

Subscription	Pay-As-You-Go
Resource group	webserver
Virtual machine name	Webserver
Region	East US
Availability options	Availability zone
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Integrity monitoring	No
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VM architecture	x64
Size	Standard B2s (2 vcpus, 4 GiB memor
Enable Hibernation	No
Authentication type	SSH public key
Username	azuser
SSH Key format	RSA

< Previous   Next >   **Create**

Snipping Tool   ...   ✕

Screenshot copied to clipboard and saved
Select here to mark up and share.

Create a virtual machine

· · · · ·

···   ✕

✓ Validation passed

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

ℹ Cost given below is an estimate and not the final price. For all your pricing needs, please use the pricing calculator. ⎘

Price

1 X Standard B2s   Subscription credits apply ℹ
by Microsoft   **3.4609 INR/hr**
Terms of use | Privacy policy   Pricing for other VM sizes

TERMS

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Name

Preferred e-mail address

Preferred phone number

Generate new key pair

ℹ An SSH key pair contains both a public key and a private key. **Azure doesn't store the private key.** After the SSH key resource is created, you won't be able to download the private key again. Learn more ⎘

Download private key and create resource

Return to create a virtual machine

⚠ You have set SSH port(s) oper   ange this setting, go
   back to Basics tab.

Basics

Subscription	Pay-As-You-Go
Resource group	webserver
Virtual machine name	Webserver
Region	East US
Availability options	Availability zone
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Enable Hibernation	No
Authentication type	SSH public key
Username	azuser

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

- **Review and Create**: Review the settings and click "Create".

Set Up the Web Server

1. **Connect to the VM**:
   - Use SSH to connect to the VM: `ssh azureuser@<Public-IP>`
2. **Install Apache Web Server**:
   - Update the package list: `sudo apt update`
   - Install Apache: `sudo apt install apache2 -y`
   - Start the Apache service: `sudo systemctl start apache2`
   - Enable Apache to start on boot: `sudo systemctl enable apache2`

Verify the Installation:

- Open a web browser and navigate to `http://<Public-IP>`. You should see the default Apache welcome page.