

exp 12

step-1: create a vm

Microsoft Azure

Search resources, services, and docs (Ctrl-)

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Create a virtual machine

Changing these options may reset selections you have made. Review all options prior to creating the virtual machine.

Basics

Disks

Networking

Management

Monitoring

Advanced

Tags

Resizer & results

Create a virtual machine that runs Linux or Windows. Select an image from Azure Marketplace or use your own customised image. Complete the Basics tab then Resizer & disks to provision a virtual machine with default parameters or review each tab for full customisation. Learn more >

This subscription may not be eligible to deploy VMs in certain regions.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organise and manage all your resources.

Subscription > < About for Students

Resource group > < About computing

Default name

Instance details

Virtual machine name > < exp12

Region > < East Pacific Central India

Availability options > < No infrastructure redundancy required

Security type > < Trusted launch virtual machines

Image > < Ubuntu Server 22.04 LTS - x64 Gen2

See all images | Configure VM generation

VM architecture > < x64

Run with Azure Spot discount > < No

Size > < Standard_DS2_v4 - 2 vcpus, 8 GB memory (M3/16/5/1month)

See all sizes

Enable Hyper-V (preview) > < No

To enable Hyper-V, you must register your subscription. Learn more >

Administrator account

Authentication type > < SSH public key

None

Username > < administrator

SSH public key source > < Generate new key pair

Key pair name > < exp12-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.

Basics & disks

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Create a virtual machine

Changing these options may reset selections you have made. Review all options prior to creating the virtual machine.

Networking options > < No infrastructure redundancy required

Security type > < Trusted launch virtual machines

Configure security features

Image > < Ubuntu Server 22.04 LTS - x64 Gen2

See all images | Configure VM generation

VM architecture > < x64

Run with Azure Spot discount > < No

Size > < Standard_DS2_v4 - 2 vcpus, 8 GB memory (M3/16/5/1month)

See all sizes

Enable Hyper-V (preview) > < No

To enable Hyper-V, you must register your subscription. Learn more >

Administrator account

Authentication type > < SSH public key

None

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

Username > < administrator

SSH public key source > < Generate new key pair

Key pair name > < exp12-key

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step-2: disk

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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: ☐

Ultra disk is not supported with selected security type.

Data disks for exp12

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	exp12_DataDisk_0	32	Premium SSD LRS	Read-only	<input type="checkbox"/>

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

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step-3: networking

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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:

Subnet:

Public IP:

NIC network security group: ☐ ☒ ☐

Public inbound ports: ☐ ☒

Select inbound ports:

Disks 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](#)

Load balancing options: ☒ ☐ ☐

Azure load balancer
Supports all TCP/UDP network traffic, port forwarding, and outbound flows.

Application gateway
Adds traffic load balancer for HTTP/HTTPS with URL based routing, SSL termination, session persistence, and web application firewall.

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step-4:management

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Create a virtual machine

Basic > Disk > Networking > Management > Monitoring > Advanced > Tags > Review > create

Configure management options for your VM.

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 ☐

Azure AD

Login with Azure AD ☐

NOTE: role assignment of Virtual Machine Administrator Login on Virtual Machine can happen in parallel when using Azure AD login. [Learn more >](#)

Azure AD login uses user ID token based authentication. You will need to use an ID token that supports OpenID Connect. 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

Image default

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

Patch orchestration options ☐

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

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step-5: monitoring

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Create a virtual machine

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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 ☐

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step-6: advanced

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Create a virtual machine

Basic Disk 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: 0 [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 as 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 (VMs)

Enables capabilities to enhance the performance of your resources.

Higher remote disk storage performance with VMs: 0 ☐

The selected disk is not supported for VMs. [See supported disk families >](#)

Host

Azure Dedicated Hosts allow you to provision and manage physical server within our data center that are dedicated to your Azure subscription. A dedicated host gives you assurance that only VMs from your subscription are on the host, enabling 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 >](#)

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step-8 : review and create

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Home >

CreateVm-canonical.0001-com-ubuntu-server-focal-2-20231114100934 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-f... Start time: 11/14/2023, 10:40:11 AM
Subscription: Azure for Students Correlation ID: c30d77a2-8474-4e29-9baf-9904389ba000
Resource group: cloud_computing

Deployment details

Resource	Type	Status	Operation details
No results.			

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