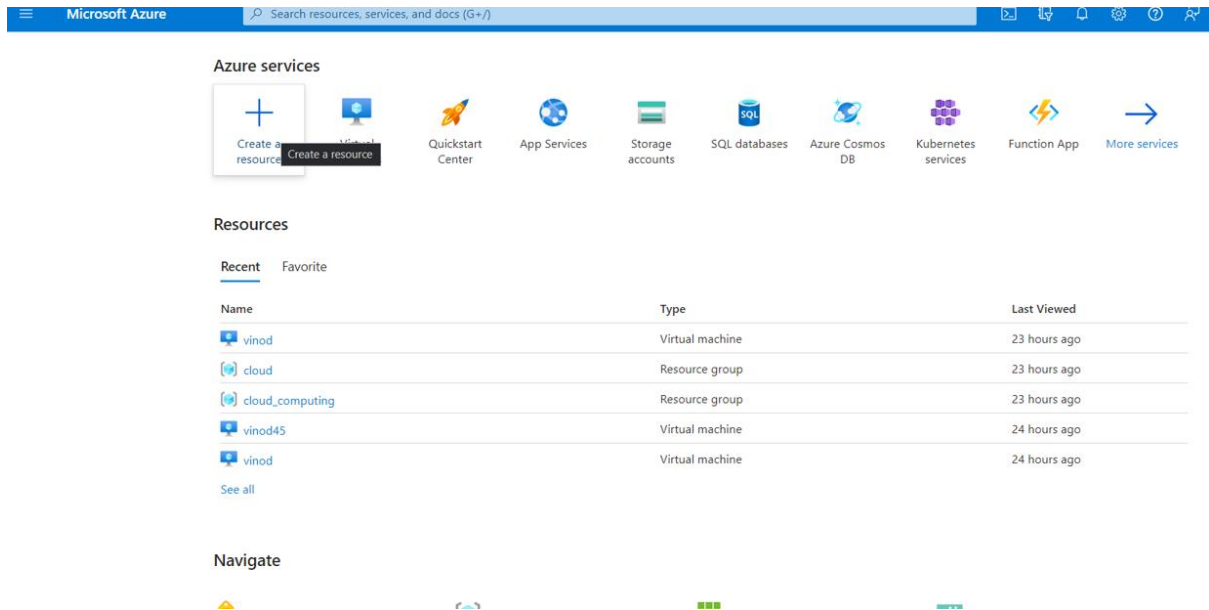


CLOUD COMPUTING

EXPERIMENT 14

Masthan valli

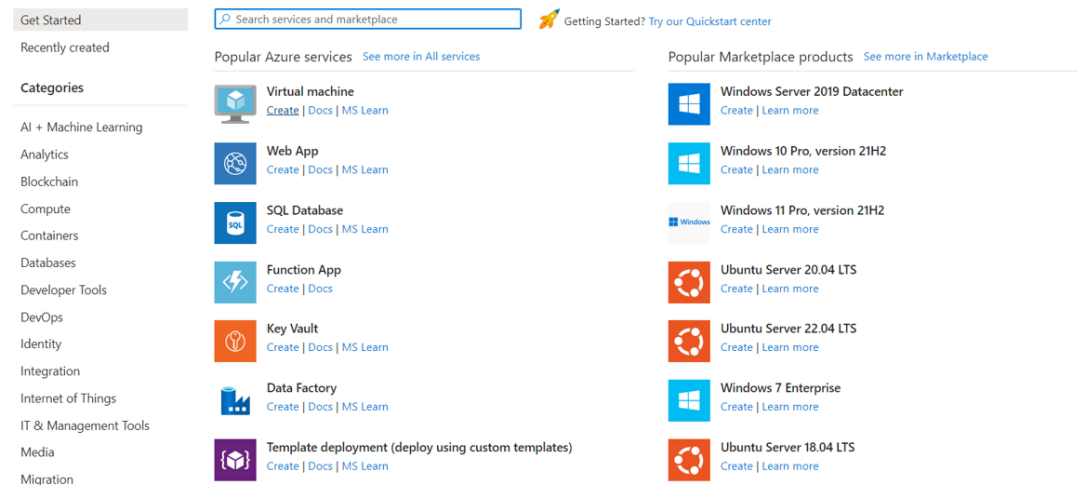
STEP-1



STEP 2

[Home](#) >

Create a resource ...



STEP-3

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](#)

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

Instance details

Virtual machine name *

Region * cloud24

Availability options

Review + create

< Previous

OK Cancel

A resource group is a container that holds related resources for an Azure solution.

Name *

cloud24

STEP-4

Region * (Europe) Switzerland North

Availability options * No infrastructure redundancy required

Security type * Standard

Image * Ubuntu Server 20.04 LTS - x64 Gen2

VM architecture * x64

Run with Azure Spot discount *

Size * Standard_E2s_v3 - 2 vcpus, 16 GiB memory (€10,090.11/month)

Administrator account

Review + create

< Previous

Next : Disks >

STEP-5

Region * (US) East US

Availability options *

Security type *

Image *

VM architecture *

Run with Azure Spot discount *

Size *

Administrator account

Review + create

< Previous

Next : Disks >

Recommended

(US) East US

(US) East US 2

(US) West US 3

(Asia Pacific) Australia East

(Europe) North Europe

(Europe) UK South

(Europe) West Europe

(Africa) South Africa North

(Asia Pacific) Central India

(Asia Pacific) East Asia

STEP-6

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) ▾

 **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.

STEP-7

Public inbound ports * ⓘ

None

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.

Review + create

< Previous

Next > Disks

Give feedback

STEP-8

Create a virtual machine ...

✔ Validation passed

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + create

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

Price

1 X Standard E2s v3
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply ⓘ
9.8953 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.

NamePATHI VINOD

Create< PreviousNext >Download a template for automation

STEP-9

The screenshot shows the 'Your deployment is complete' message in the Azure portal. The deployment name is 'CreateVm-canonical.0001-com-ubuntu-server-f...' and the subscription is 'Azure for Students'. The resource group is 'cloud2.0'. The deployment details table lists the following resources:

Resource	Type	Status	Operation details
vinodchoudary	Microsoft.Compute/virtualMachines	OK	Operation details
vinodchoudary173	Microsoft.Network/networkInterfaces	Created	Operation details
vinodchoudary-ip	Microsoft.Network/publicIPAddresses	OK	Operation details
vinodchoudary-vnet	Microsoft.Network/virtualNetworks	OK	Operation details
vinodchoudary-nsg	Microsoft.Network/networkSecurityGroups	OK	Operation details

Next steps include: Setup auto-shutdown (Recommended), Monitor VM health, performance and network dependencies (Recommended), and Run a script inside the virtual machine (Recommended). The 'Cost Management' section on the right offers to get notified about budget and prevent unexpected charges. The 'Microsoft Defender for Cloud' section offers to secure apps and infrastructure. The 'Free Microsoft tutorials' section offers to start learning today. The 'Work with an expert' section offers to get help from Azure experts.

STEP-10

The screenshot shows the 'Essentials' section of the Azure portal for a virtual machine. The resource group is 'cloud2.0', the status is 'Running', the location is 'East US', the subscription is 'Azure for Students', and the subscription ID is '3b4fb3b-ccc6-4257-8f12-75b8d7b2a1b9'. The operating system is 'Linux (ubuntu 20.04)', the size is 'Standard E2s v3 (2 vcpus, 16 GiB memory)', the public IP address is '74.235.175.2', the virtual network/subnet is 'vinodchoudary-vnet/default', the DNS name is 'Not configured', and the health state is '-'. The 'Tags' section shows 'Click here to add tags'. The 'Properties' section shows the following details:

Property	Value
Computer name	vinodchoudary
Operating system	Linux (ubuntu 20.04)
Publisher	canonical
Offer	0001-com-ubuntu-server-focal
Plan	20_04-lts-gen2
VM generation	V2

The 'Networking' section shows the following details:

Property	Value
Public IP address	74.235.175.2 (Network interface vinodchoudary173)
Public IP address (IPv6)	-
Private IP address	10.2.0.4
Private IP address (IPv6)	-
Virtual network/subnet	vinodchoudary-vnet/default
DNS name	Configure

STEP-11

The screenshot shows the 'Azure services' section of the Azure portal, which includes links to 'Create a resource', 'Virtual machines', 'Quickstart Center', 'App Services', 'Storage accounts', 'SQL databases', 'Azure Cosmos DB', 'Kubernetes services', 'Function App', and 'More services'. The 'Resources' section shows a list of resources, including 'vinodchoudary' (Virtual machine), 'cloud2.0' (Resource group), 'vinod' (Virtual machine), 'cloud' (Resource group), 'cloud_com' (Resource group), 'vinod45' (Virtual machine), and 'vinod' (Virtual machine). A tooltip for 'cloud2.0' is visible, showing the 'View' button. The 'Recent' tab is selected, and the 'Last Viewed' column shows the time since the resource was last viewed.

Name	Type	Last Viewed
vinodchoudary	Virtual machine	a minute ago
cloud2.0	Resource group	9 minutes ago
vinod	Virtual machine	24 hours ago
cloud	Resource group	24 hours ago
cloud_com	Resource group	24 hours ago
vinod45	Virtual machine	a day ago
vinod	Virtual machine	a day ago

STEP-12

The screenshot shows the Azure portal interface for a virtual machine. The left sidebar contains navigation options like Overview, Activity log, Access control (IAM), Tags, and Settings. The main content area displays the 'Properties' tab for the VM 'vinodchoudary'. The 'Virtual machine' section lists details such as Operating system (Linux (ubuntu 20.04)), Publisher (canonical), Offer (0001-com-ubuntu-server-focal), Plan (20_04-lts-gen2), VM generation (V2), VM architecture (x64), Agent status (Ready), Agent version (2.9.0.4), Host group (None), Host (-), Proximity placement group (-), Colocation status (N/A), Capacity reservation group (-), and Disk controller type (SCSI). The 'Networking' section shows the Public IP address (74.235.175.2), Private IP address (10.2.0.4), and Virtual network/subnet (vinodchoudary-vnet/default). The 'Size' section shows the VM size (Standard E2s v3), vCPUs (2), and RAM (16 GiB). The 'Disk' section shows the OS disk (vinodchoudary_disk1_9064116f9bfb4e44b1071d9abfdb6bfe) and Encryption at host (Disabled).

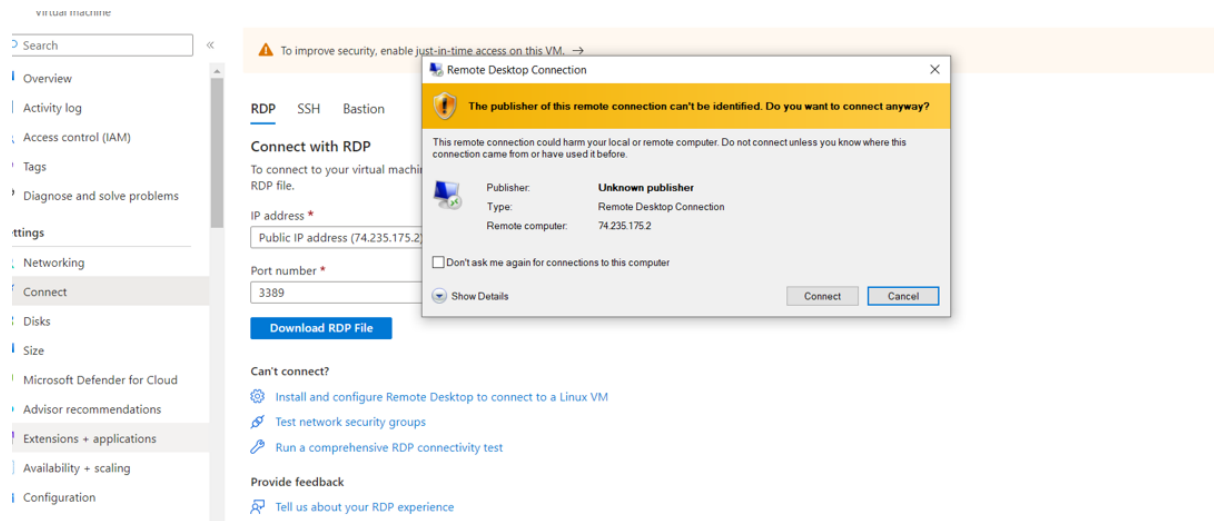
STEP-13

The screenshot shows the Azure portal interface for the virtual machine 'vinodchoudary'. The left sidebar is the same as in Step 12. The main content area displays the 'Essentials' tab. It shows the Resource group (cloud2.0), Status (Running), Location (East US), Subscription (Azure for Students), and Subscription ID (3b4fb3b-ccc6-4257-8f12-75b8d7b2a1b9). The 'Operating system' is Linux (ubuntu 20.04), 'Size' is Standard E2s v3 (2 vcpus, 16 GiB memory), 'Public IP address' is 74.235.175.2, 'Virtual network/subnet' is vinodchoudary-vnet/default, 'DNS name' is Not configured, and 'Health state' is -. Below this, the 'Properties' tab is visible, showing the same details as in Step 12.

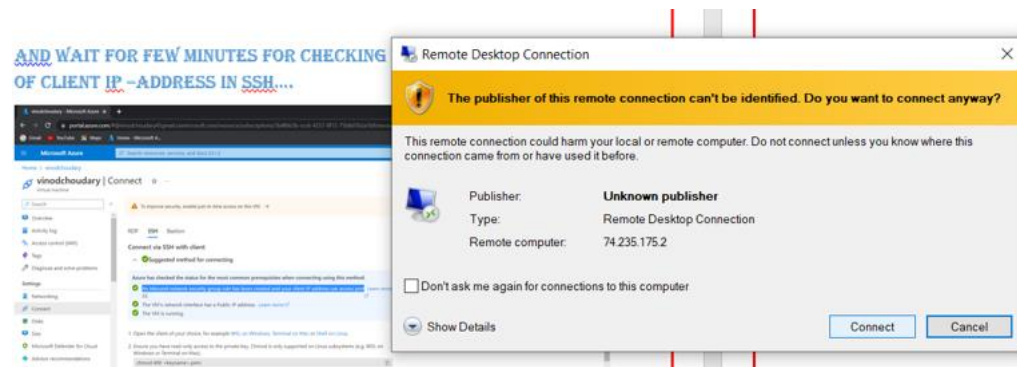
STEP-14

The screenshot shows the Azure portal interface for the virtual machine 'vinodchoudary'. The left sidebar is the same as in Step 12. The main content area displays the 'SSH' connection method. A warning banner at the top states: 'To improve security, enable just-in-time access on this VM. →'. Below this, the 'Connect via SSH with client' section is shown. It includes a 'Suggested method for connecting' and a list of prerequisites: 'An inbound network security group rule has been created and your client IP address can access port 22', 'The VM's network interface has a Public IP address', and 'The VM is running'. The steps for connecting via SSH are listed: 1. Open the client of your choice, for example WSL on Windows, Terminal on Mac or Shell on Linux. 2. Ensure you have read-only access to the private key. Chmod is only supported on Linux subsystems (e.g. WSL on Windows or Terminal on Mac). 3. Provide a path to your SSH private key file. Replace/reset your SSH private key. 4. Run the example command below to connect to your VM. The command shown is: `chmod 400 <keyname>.pem` and the private key path is `~/ssh/<keyname>.pem`.

STEP-15



STEP-16



STEP-17

Remote Desktop Connection



Remote Desktop can't connect to the remote computer for one of these reasons:

- 1) Remote access to the server is not enabled
- 2) The remote computer is turned off
- 3) The remote computer is not available on the network

Make sure the remote computer is turned on and connected to the network, and that remote access is enabled.

OK

Help