

Exp 5 :- Demonstrate Infrastructure as a Service (IaaS) by Creating a Virtual Machine using a Public Cloud Service Provider (Azure/GCP/AWS), configure with minimum CPU, RAM, and Storage and Launch the VM image.

Step 1

Home > Resource groups

Default Directory

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Location equals all Add filter

Showing 1 to 4 of 4 records. No grouping List view

<input type="checkbox"/> Name ↑	Subscription ↑↓	Location ↑↓	
<input type="checkbox"/> CLOUD	Azure for Students	East US	...
<input type="checkbox"/> NetworkWatcherRG	Azure for Students	East US	...
<input type="checkbox"/> record	Azure for Students	East US	...
<input type="checkbox"/> record1	Azure for Students	East US	...

step 2

Home > Virtual networks > Create virtual network

Basics IP Addresses Security Tags Review + create

Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks. VNet is similar to a traditional network that you'd operate in your own data center, but brings with it additional benefits of Azure's infrastructure such as scale, availability, and isolation. [Learn more about virtual network](#)

Project details

Subscription * Azure for Students

Resource group * record1

[Create new](#)

Instance details

Name * virtualnetwork

Region * East US

[Review + create](#) < Previous Next : IP Addresses > [Download a template for automation](#)

Step 3

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

Create virtual network ...

✓ Validation passed

Basics IP Addresses Security Tags Review + create

Basics

Subscription	Azure for Students
Resource group	record1
Name	virtualnetwork
Region	East US

IP addresses

Address space	10.1.0.0/16
Subnet	default (10.1.0.0/24)

Create

< Previous

Next >

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step 4

The screenshot shows the Microsoft Azure portal interface. At the top, there's a search bar and user information. The main header indicates the current path: Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20230810125131 | Overview >. The resource name 'virtualnetwork' is displayed with icons for favorite, star, and more options. Below the header, there's a toolbar with actions like Connect, Start, Restart, Stop, Capture, Delete, Refresh, Open in mobile, Feedback, and CLI/PS. A left-hand navigation pane lists various settings and tools. The main content area is divided into sections: 'Availability + scaling' (showing 1 availability zone), 'Security type' (showing Trusted launch, Secure boot, vTPM, and Integrity monitoring), 'Extensions + applications' (showing no extensions or applications), 'Auto-shutdown' (showing not enabled), and 'Azure Spot' (showing no spot instances).

Microsoft Azure Search resources, services, and docs (G+)

kokkerasivasankar@gm...
DEFAULT DIRECTORY

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20230810125131 | Overview >

virtualnetwork ☆ ☆ ...
Virtual machine

Search

Connect Start Restart Stop Capture Delete Refresh Open in mobile Feedback CLI / PS

Availability + scaling

Availability zone	1
Availability set	-
Scale Set	-

Security type

Security type	Trusted launch
Enable secure boot	Enabled
Enable vTPM	Enabled
Integrity monitoring	Disabled

Extensions + applications

Extensions	-
Applications	-

ephemeral OS disk N/A
Data disks 0

Auto-shutdown

Auto-shutdown	Not enabled
Scheduled shutdown	-

Azure Spot

Azure Spot	-
Azure Spot eviction policy	-

Show desktop

Step 5

Suggested Sites Imported From IE New Tab Movies | Watch Mo... Page not found | Or... Downloads (33) Kajal Aganwal... (59) Simple Shortcu...

Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual machines >

Create a virtual machine

Validation passed

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

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Price

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Subscription credits apply
7.5393 INR/hr
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step 6

Home >

Microsoft.VirtualNetwork-20230810124944 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

Your deployment is complete

Deployment name : Microsoft.VirtualNetwork-2023081012... Start time : 8/10/2023, 12:50:41 PM
Subscription : Azure for Students Correlation ID : ee40ed34-c203-4368-a164-6c362629e...
Resource group : record1

Deployment details

Next steps

Go to resource

Give feedback
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Work with an expert

Step 7

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Create a virtual machine

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Step 8

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with the Microsoft Azure logo and a search bar. Below it, the breadcrumb trail reads 'Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20230810123212 | Overview'. The main content area displays 'Your deployment is complete' with a green checkmark. It provides details about the deployment: 'CreateVm-canonical.0001-com-ubuntu-server-focal-2-20230810123212', 'Subscription: Azure for Students', 'Resource group: CLOUD', 'Start time: 8/10/2023, 12:35:01 PM', and 'Correlation ID: d61b116d-2241-4e2e-8f57-6adc'. Under 'Next steps', there are links for 'Setup auto-shutdown', 'Monitor VM health, performance and network dependencies', and 'Run a script inside the virtual machine', all marked as 'Recommended'. A 'Go to resource' button is visible. On the right, a sidebar contains 'Cost Management', 'Microsoft Defender for Cloud', and 'Free Microsoft tutorials'. A notification banner at the top right states 'Deployment succeeded'.

Step 9

The screenshot shows the Microsoft Azure portal interface. The breadcrumb trail reads 'Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20230810125131 | Overview'. The main content area displays 'Your deployment is complete' with a green checkmark. It provides details about the deployment: 'CreateVm-canonical.0001-com-ubuntu-server-focal-2-20230810125131', 'Subscription: Azure for Students', 'Resource group: record1', 'Start time: 8/10/2023, 12:54:11 PM', and 'Correlation ID: b7597acf-a542-4ef7-a035-5aec'. Under 'Next steps', there are links for 'Setup auto-shutdown', 'Monitor VM health, performance and network dependencies', and 'Run a script inside the virtual machine', all marked as 'Recommended'. A 'Go to resource' button is visible. On the right, a sidebar contains 'Cost Management', 'Microsoft Defender for Cloud', and 'Free Microsoft tutorials'.

Step 10

The screenshot shows the Microsoft Azure portal interface. The breadcrumb trail reads 'Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20230810123212 | Overview > firstazure'. The main content area displays the details of the virtual machine 'firstazure'. It includes a list of actions: 'Connect', 'Start', 'Restart', 'Stop', 'Capture', 'Delete', 'Refresh', 'Open in mobile', 'Feedback', and 'CLI / PS'. The 'Essentials' section shows: 'Resource group (move): CLOUD', 'Status: Running', 'Location: East US (Zone 1)', 'Subscription (move): Azure for Students', 'Subscription ID: d5c0c164-939e-4a76-b730-5eddadb8db4d', 'Availability zone: 1', and 'Tags (edit): Add tags'. The 'Properties' section shows: 'Virtual machine', 'Computer name: firstazure', 'Operating system: Linux (ubuntu 20.04)', and 'Image publisher: canonical'. The 'Networking' section shows: 'Public IP address: 172.174.208.224 (Network interface: firstazure768_z1)', 'Public IP address (IPv6): -', and 'Private IP address: 10.0.0.4'.