

EXPERIMENT-13

Demonstrate Infrastructure as a Service (IaaS) by establishing the remote connection, launch the created VM image and run in your desktop.

Home >

Create a virtual machine

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

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

Subscription *

Resource group * [Create new](#)

Instance details

Virtual machine name * ✓

Region *

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Home >

Create a virtual machine

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

Username and SSH

Username * ✓

SSH public key source

Key pair name * ✓

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 *

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New Tab

Home - Microsoft Azure

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

Microsoft Azure

varshitha

bodipudivarshitha0420...
DEFAULT DIRECTORY (BODIPUDI...

Home >

Create a virtual machine

OS disk

OS disk size ⓘ

32 GiB (P4)

Some images are, by default, smaller than the selected OS disk size.
[Click here to learn how to expand your disk partition size after you create your VM.](#)

OS disk type ⓘ

Premium SSD (locally-redundant storage)

Delete with VM ⓘ

☒

Key management ⓘ

Platform-managed key

Enable Ultra Disk compatibility ⓘ

☐

Ultra disk is not supported with selected security type.

Data disks for rishitha

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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 ⓘ

maggi-vnet

[Create new](#)

Subnet ⓘ

default (10.0.0.0/24)

[Manage subnet configuration](#)

Public IP ⓘ

(new) rishitha-ip

[Create new](#)

NIC network security group ⓘ

☐ None

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Microsoft Azure varshitha

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Create a virtual machine

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

Identity

Enable system assigned managed identity ☐

Azure AD

Login with Azure AD ☐

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

Azure AD 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

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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 ☐

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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

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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
table	: 5	All resources
chair	: 10	13 selected
		13 selected

Review + create

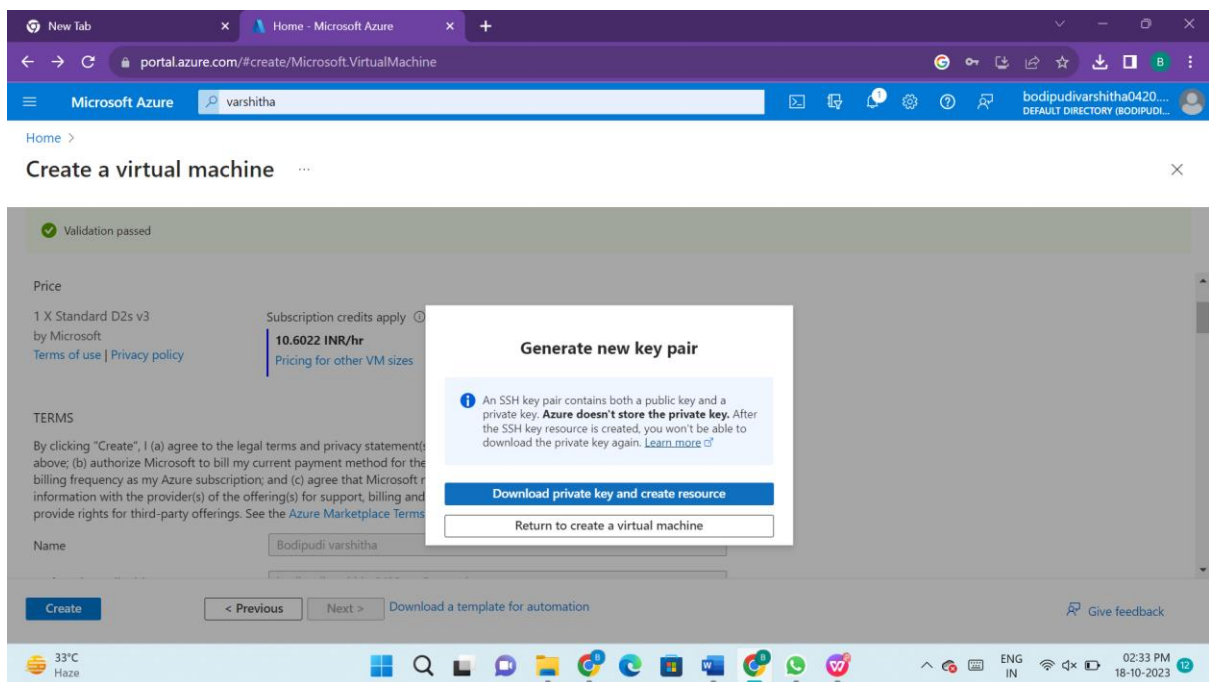
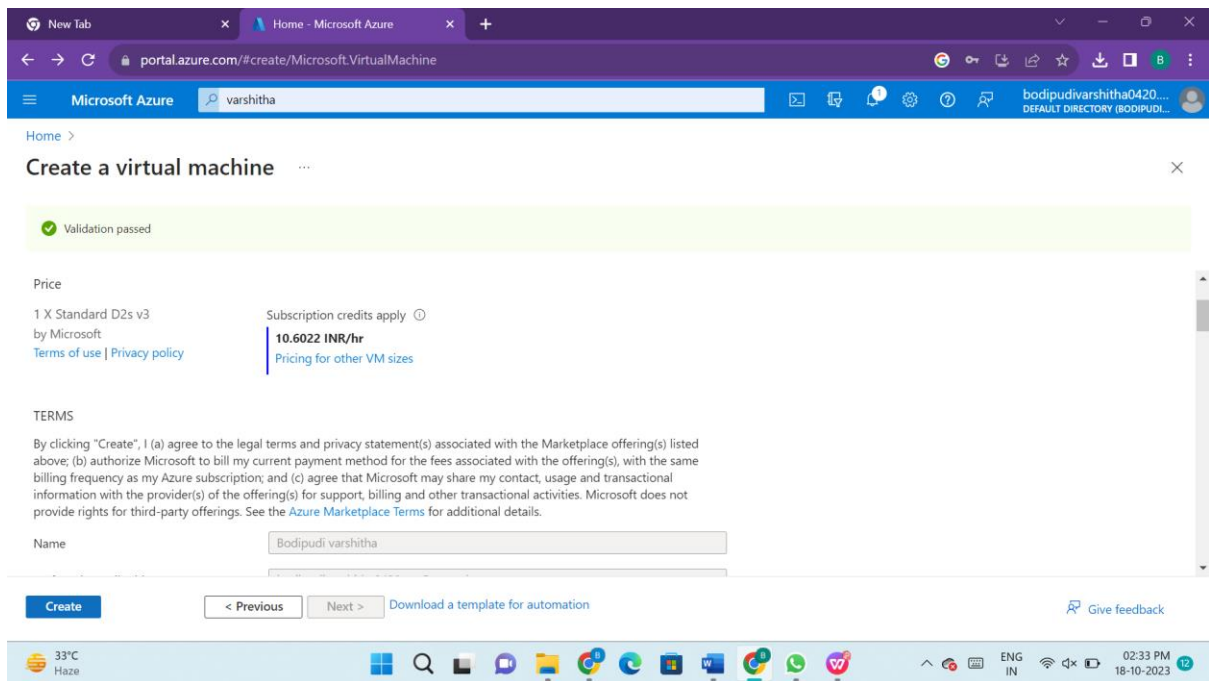
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New Tab x CreateVm-canonical.0001-com x +

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F5b32cedd-7c94-4ad3-baef-cc1...

Microsoft Azure varshitha

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20231018142443 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name: CreateVm-canonical.0001-com-ubunt... Start time: 18/10/2023, 14:33:24
Subscription: Azure for Students Correlation ID: 1f019414-dcf6-4e50-bbbc
Resource group: varshitha

Deployment details

Next steps

Setup auto-shutdown Recommended
Monitor VM health, performance and network dependencies Recommended
Run a script inside the virtual machine Recommended

Go to resource Create another VM

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Tell us about your experience with deployment

Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >

Microsoft Defender for Cloud
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Go to Microsoft Defender for Cloud >

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portal.azure.com/#@bodipudivarshitha0420ssesav.onmicrosoft.com/resource/subscriptions/5b32cedd-7c94-4ad3-baef-cc1a0ad27d6...

Microsoft Azure varshitha

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20231018142443 | Overview >

rishitha Virtual machine

Search

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

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Disks

Size

Microsoft Defender for Cloud

Advisor recommendations

Extensions + applications

Essentials

Resource group (move) varshitha

Status Running

Location South India

Subscription (move) Azure for Students

Subscription ID 5b32cedd-7c94-4ad3-baef-cc1a0ad27d6b

Tags (edit)

table : 5 chair : 10

Operating system Linux (ubuntu 20.04)

Size Standard D2s v3 (2 vcpus, 8 GiB memory)

Public IP address 20.235.144.232

Virtual network/subnet maggi-vnet/default

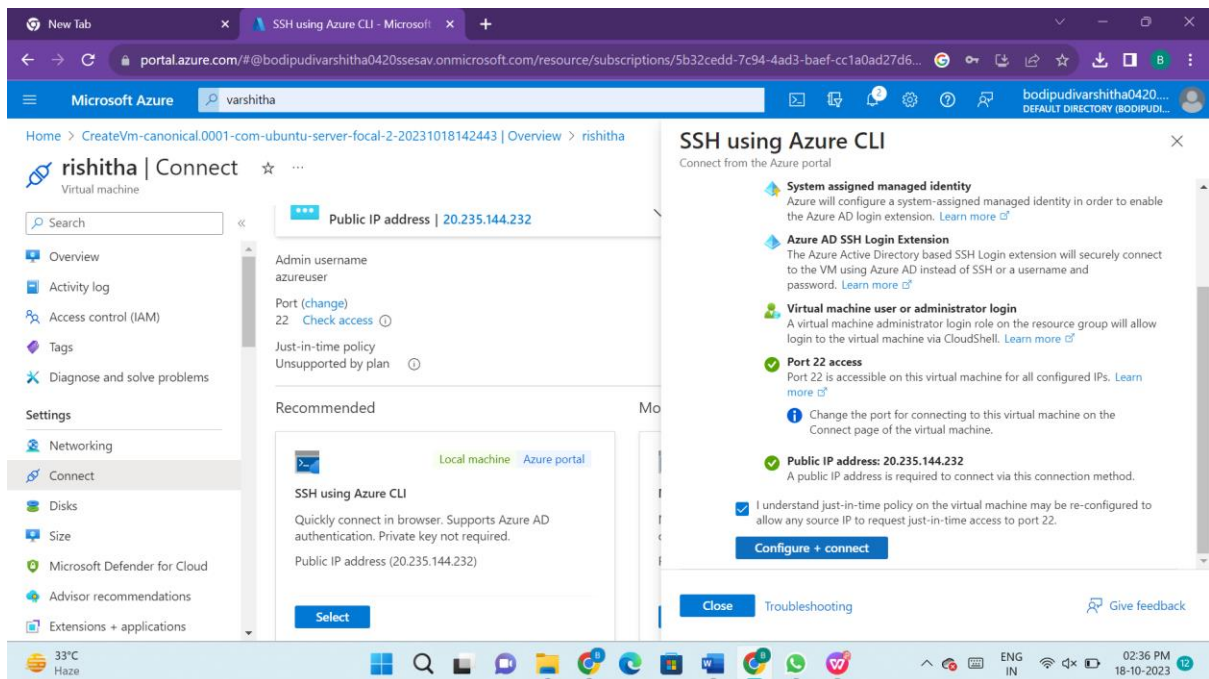
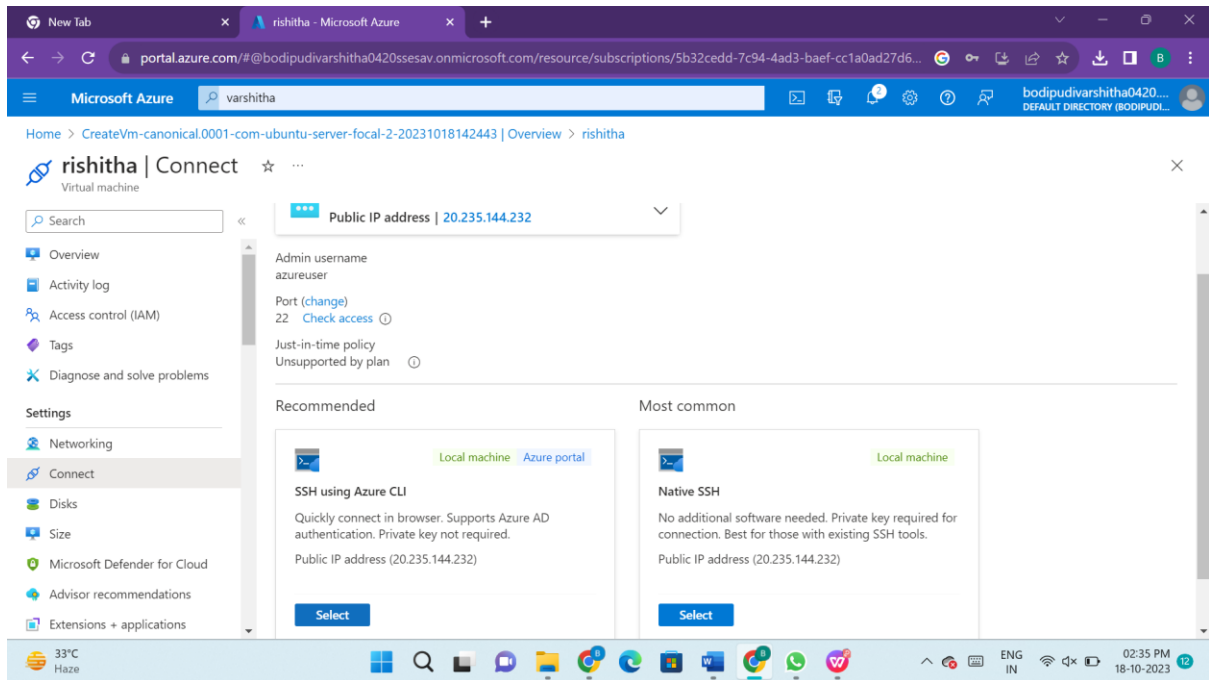
DNS name Not configured

Health state -

JSON View

Properties Monitoring Capabilities (7) Recommendations Tutorials

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Microsoft Azure portal interface showing the SSH configuration for a virtual machine named "rishitha".

SSH using Azure CLI

Connect from the Azure portal

- ✓ Prerequisites configured
- ✓ System assigned managed identity
Azure will configure a system-assigned managed identity in order to enable the Azure AD login extension. [Learn more](#)
- ✓ Azure AD SSH Login Extension

Public IP address | 20.235.144.232

Admin username: azureuser
Port (change): 22 [Check access](#)
Just-in-time policy

Bash

```
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
bodipudivarshitha0420.sse@saveetha.com@rishitha:~$
```

Windows taskbar at the bottom shows the time as 02:37 PM on 18-10-2023.