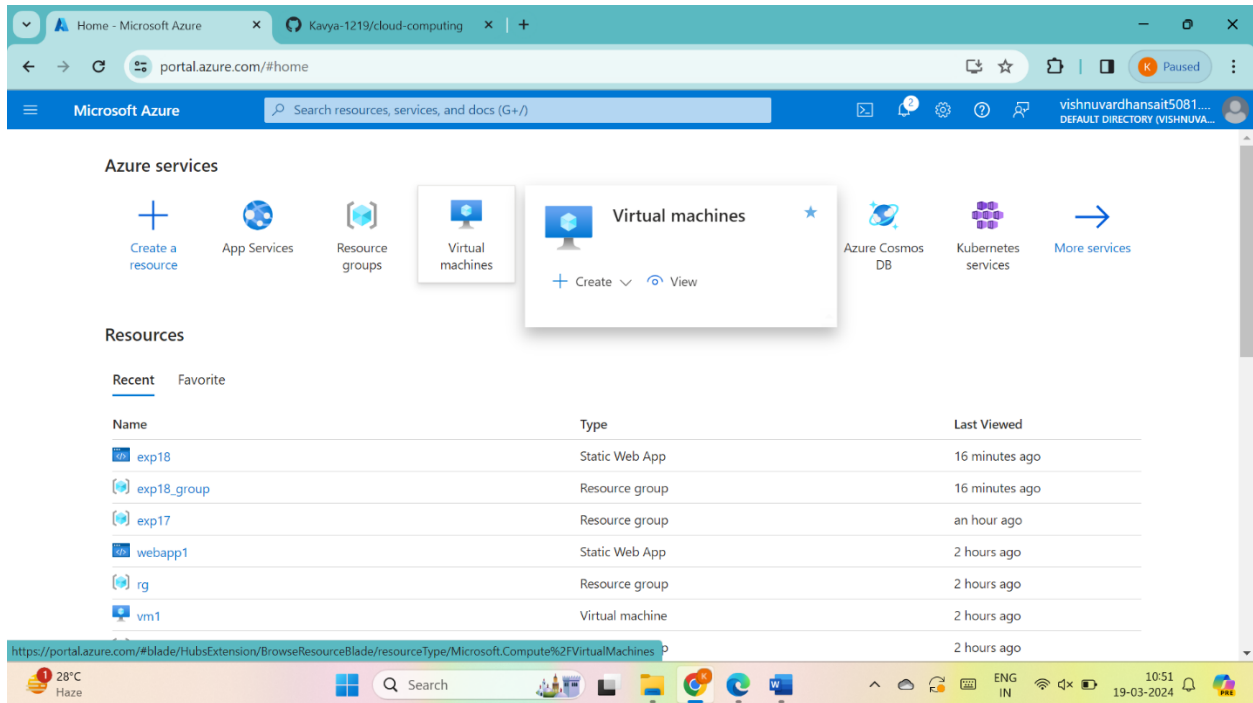


EXP:19:

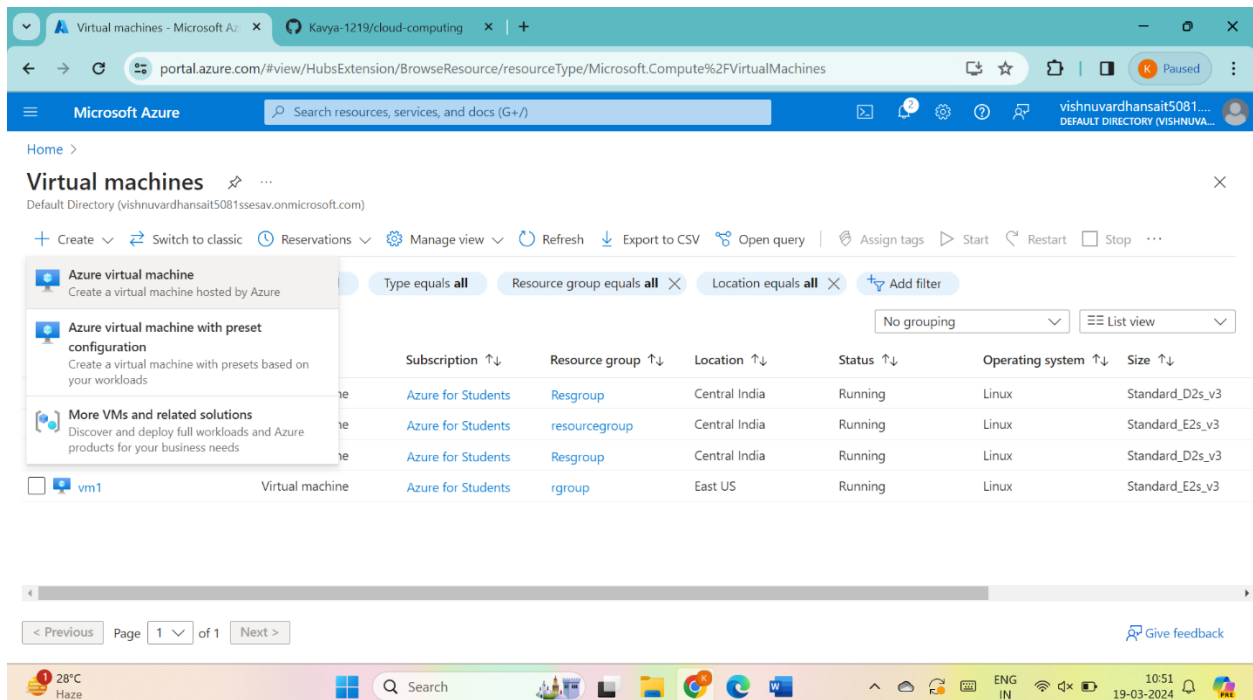
Aim: To Demonstrate Infrastructure as a Service (IaaS) by creating a Virtual Machine using a Public Cloud Service Provider (Azure), configure with required memory and CPU.

Implementation:

STEP:1:: open azure and create account Go to resource groups



THEN GO THE CREATE THEN AZURE VIRTUAL MACHINES



Give name to VM and give next : disks>

The screenshot shows the 'Create a virtual machine' page in the Microsoft Azure portal. The 'Instance details' section is active, showing the following configuration:

- Subscription: Azure for Students
- Resource group: Resgroup
- Virtual machine name: exp19
- Region: (Asia Pacific) Central India
- Availability options: Availability zone
- Availability zone: Zones 1

At the bottom of the form, there are navigation buttons: '< Previous', 'Next : Disks >', and 'Review + create'. A 'Give feedback' link is also present.

give next : networking>

The screenshot shows the 'Create a virtual machine' page in the Microsoft Azure portal, specifically the 'OS disk' section. The configuration is as follows:

- OS disk size: Image default (30 GiB)
- OS disk type: Premium SSD (locally-redundant storage)
- Delete with VM: ☒

There is a message regarding 'Encryption at host' which is not registered for the selected subscription. The 'Next : Networking >' button is highlighted, indicating the next step in the process.

give next : management>

The screenshot shows the 'Create a virtual machine' page in the Microsoft Azure portal, specifically the 'Management' tab. The page is titled 'Create a virtual machine' and includes a search bar and a user profile. The 'Management' tab is selected, showing options for configuring network security groups, deleting public IP and NIC, enabling accelerated networking, and load balancing. The 'Load balancing options' section shows 'None' selected. The 'Next: Management >' button is highlighted.

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

Microsoft Azure

Home > Virtual machines >

Create a virtual machine

Configure network security group: [VIEW EXPLANATION](#)
[Create new](#)

Delete 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: ☒ 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

SENSEX -0.74%

10:58 19-03-2024

give next : monitoring>

The screenshot shows the 'Create a virtual machine' page in the Microsoft Azure portal, specifically the 'Monitoring' tab. The page is titled 'Create a virtual machine' and includes a search bar and a user profile. The 'Monitoring' tab is selected, showing options for Microsoft Defender for Cloud and Identity. The 'Identity' section shows 'Enable system assigned managed identity' as an option. The 'Next: Monitoring >' button is highlighted.

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

Microsoft Azure

Home > Virtual machines >

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 Microsoft Defender for Cloud basic plan.

Identity
Enable system assigned managed identity: ☐
To enable system-assigned managed identity, change your orchestration mode to Uniform on the Basics tab

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

go.microsoft.com/fwlink/?LinkId=2027915

SENSEX -0.74%

10:59 19-03-2024

give next : advanced>

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal, specifically the 'Monitoring' tab. The browser address bar shows 'portal.azure.com/#create/Microsoft.VirtualMachine-ARM'. The navigation tabs include Basics, Disks, Networking, Management, Monitoring (selected), Advanced, Tags, and Review + create. The 'Monitoring' section is titled 'Configure monitoring options for your VM.' and contains three sub-sections: 'Alerts' with an 'Enable recommended alert rules' checkbox; 'Diagnostics' with 'Boot diagnostics' options (Enable with managed storage account (recommended), Enable with custom storage account, or Disable) and an 'Enable OS guest diagnostics' checkbox; and 'Health'. At the bottom, there are navigation buttons: '< Previous', 'Next : Advanced >', and 'Review + create'. A 'Give feedback' link is also present.

give next :tags >

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal, specifically the 'Advanced' tab. The browser address bar shows 'portal.azure.com/#create/Microsoft.VirtualMachine-ARM'. The navigation tabs include Basics, Disks, Networking, Management, Monitoring, Advanced (selected), Tags, and Review + create. The 'Advanced' section is titled 'Add additional configuration, agents, scripts or applications via virtual machine extensions or cloud-init.' and contains three sub-sections: 'Extensions' with a 'Select an extension to install' link; 'VM applications' with a description and a 'Select a VM application to install' link; and 'Custom data and cloud init'. At the bottom, there are navigation buttons: '< Previous', 'Next : Tags >', and 'Review + create'. A 'Give feedback' link is also present.

Fill details, give next : review + create>

The screenshot shows the 'Create a virtual machine' page in the Microsoft Azure portal, specifically the 'Tags' tab. The browser address bar shows 'portal.azure.com/#create/Microsoft.VirtualMachine-ARM'. The page has a blue header with the Microsoft Azure logo and a search bar. Below the header, there's a breadcrumb 'Home > Virtual machines >'. The main title is 'Create a virtual machine'. A horizontal tab bar includes 'Basics', 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', 'Tags' (selected), and 'Review + create'. A paragraph explains that tags are name/value pairs for categorizing resources and consolidated billing, with a link to 'Learn more about tags'. A note states that tags will be automatically updated if resource settings change. Below this is a table for adding tags:

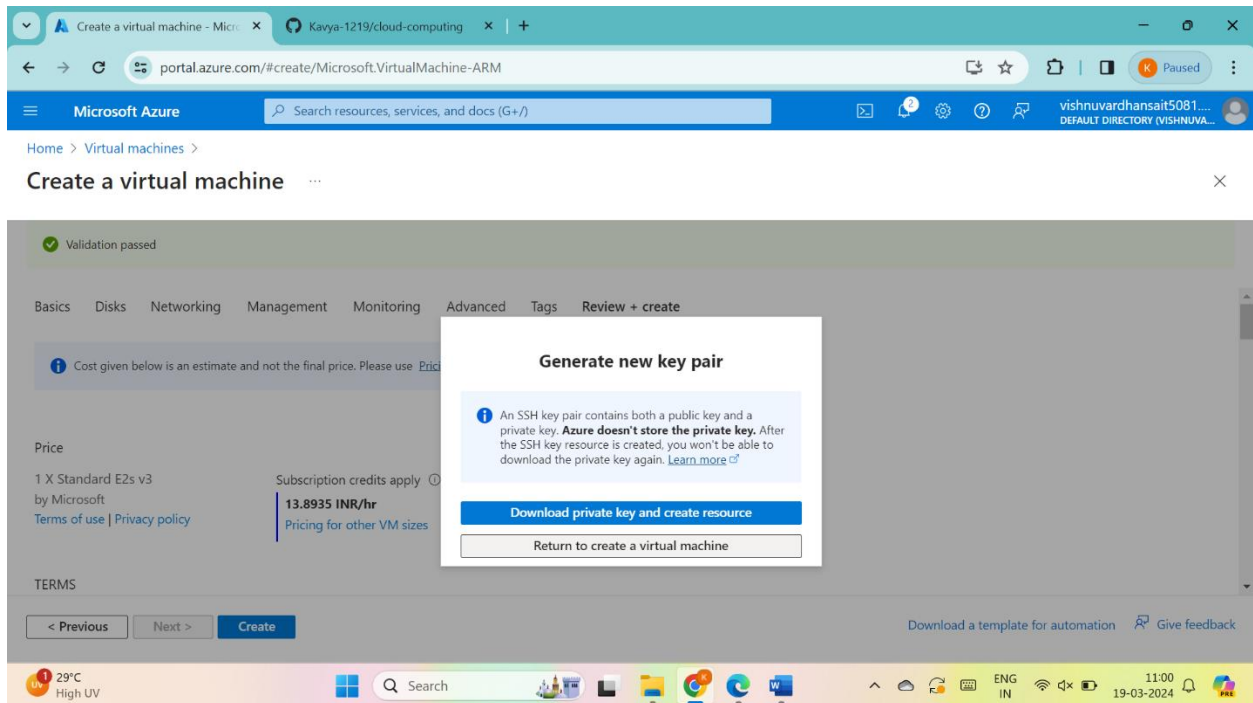
Name	Value	Resource
App	10	13 selected
		13 selected

At the bottom, there are navigation buttons: '< Previous', 'Next : Review + create >', and 'Review + create'. A 'Give feedback' link is also present. The Windows taskbar at the bottom shows the date as 19-03-2024 and time as 10:59.

Now go to create

The screenshot shows the 'Create a virtual machine' page in the Microsoft Azure portal, specifically the 'Review + create' tab. The browser address bar shows 'portal.azure.com/#create/Microsoft.VirtualMachine-ARM'. The page has a blue header with the Microsoft Azure logo and a search bar. Below the header, there's a breadcrumb 'Home > Virtual machines >'. The main title is 'Create a virtual machine'. A horizontal tab bar includes 'Basics', 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', 'Tags', and 'Review + create' (selected). A green banner at the top indicates 'Validation passed'. A blue information box states: 'Cost given below is an estimate and not the final price. Please use Pricing calculator for all your pricing needs.' Below this, the 'Price' section shows '1 X Standard E2s v3 by Microsoft' and 'Subscription credits apply'. The price is listed as '13.8935 INR/hr'. Links for 'Terms of use' and 'Privacy policy' are provided. A 'Pricing for other VM sizes' link is also present. The 'TERMS' section is partially visible. At the bottom, there are navigation buttons: '< Previous', 'Next >', and 'Create'. A 'Download a template for automation' link and a 'Give feedback' link are also present. The Windows taskbar at the bottom shows the date as 19-03-2024 and time as 10:59.

Go to download private key and create resource



RESULT : THUS ,THE PROGRAM HAS BEEN EXCEUTED SUCCESSFULLY.

