

## EXPERIMENT:20

**Aim:** To Demonstrate Platform as a Service (PaaS) create and configure a new VM Image in any Public Cloud Service Provider

### Implementation:

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

**Azure services**

Create a resource | App Services | Resource groups | **Virtual machines** | Azure Cosmos DB | Kubernetes services | More services

**Resources**

Recent | Favorite

Name	Type	Last Viewed
exp18	Static Web App	16 minutes ago
exp18_group	Resource group	16 minutes ago
exp17	Resource group	an hour ago
webapp1	Static Web App	2 hours ago
rg	Resource group	2 hours ago
vm1	Virtual machine	2 hours ago

**THEN GO TO THE CREATE THEN AZURE VIRTUAL MACHINES**

**Virtual machines**

Default Directory (vishnuvardhansait5081ssesav.onmicrosoft.com)

+ Create | Switch to classic | Reservations | Manage view | Refresh | Export to CSV | Open query | Assign tags | Start | Restart | Stop

Type equals all | Resource group equals all | Location equals all | Add filter

No grouping | List view

Subscription	Resource group	Location	Status	Operating system	Size
Azure for Students	Resgroup	Central India	Running	Linux	Standard_D2s_v3
Azure for Students	resourcegroup	Central India	Running	Linux	Standard_E2s_v3
Azure for Students	Resgroup	Central India	Running	Linux	Standard_D2s_v3
Azure for Students	rgroup	East US	Running	Linux	Standard_E2s_v3

< Previous | Page 1 of 1 | Next >

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 'VM disk encryption' section. The page includes the following information:

- A note: '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**
- A description: '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**: A checkbox is present, but it is disabled with a message: 'Encryption at host is not registered for the selected subscription. [Learn more about enabling this feature](#)'
- OS disk**
- OS disk size**: Image default (30 GiB)
- OS disk type**: Premium SSD (locally-redundant storage)
- Delete with VM**: Checked

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

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 at the top. 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 'Review + create' button is visible at the bottom right. The browser's address bar shows 'portal.azure.com/#create/Microsoft.VirtualMachine-ARM'. The taskbar at the bottom shows the Windows Start button, search bar, and various application icons.

Microsoft Azure

Search resources, services, and docs (G+/I)

Home > Virtual machines >

### Create a virtual machine

Configure network security group: [VIEW EXPERTS](#) [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

[Give feedback](#)

SENSEX -0.74%

Search

ENG IN 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 at the top. The 'Monitoring' tab is selected, showing options for Microsoft Defender for Cloud, identity, and monitoring. The 'Microsoft Defender for Cloud' section shows a green checkmark indicating that the subscription is protected by the Microsoft Defender for Cloud basic plan. The 'Identity' section shows the 'Enable system assigned managed identity' checkbox. The 'Review + create' button is visible at the bottom right. The browser's address bar shows 'portal.azure.com/#create/Microsoft.VirtualMachine-ARM'. The taskbar at the bottom shows the Windows Start button, search bar, and various application icons.

Microsoft Azure

Search resources, services, and docs (G+/I)

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

[Give feedback](#)

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

SENSEX -0.74%

Search

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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 page title is 'Create a virtual machine'. 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 sections: 'Alerts' with 'Enable recommended alert rules' (checkbox), 'Diagnostics' with 'Boot diagnostics' (radio buttons for 'Enable with managed storage account (recommended)', 'Enable with custom storage account', and 'Disable'), and 'Enable OS guest diagnostics' (checkbox). The 'Health' section is empty. At the bottom, there are buttons for '< 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 page title is 'Create a virtual machine'. 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 sections: 'Extensions' with 'Extensions provide post-deployment configuration and automation.' and a link 'Select an extension to install', 'VM applications' with a description and a link 'Select a VM application to install', and 'Custom data and cloud init'. At the bottom, there are buttons for '< 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'. Below this, a note states that tags will be automatically updated if resource settings change. A table for adding tags is visible with columns 'Name', 'Value', and 'Resource'. The first row has 'App' in the Name column, '10' in the Value column, and '13 selected' in the Resource column. The second row is empty. At the bottom, there are navigation buttons: '< Previous', 'Next : Review + create >', and 'Review + create'. A 'Give feedback' link is also present.

Name	Value	Resource
App	10	13 selected
		13 selected

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'. Below this, a blue box contains a message: 'Cost given below is an estimate and not the final price. Please use Pricing calculator for all your pricing needs.' The 'Price' section shows '1 X Standard E2s v3 by Microsoft' and 'Subscription credits apply'. The price is listed as '13.8935 INR/hr'. There are links for 'Terms of use' and 'Privacy policy', and a link for 'Pricing for other VM sizes'. 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.

Price

1 X Standard E2s v3  
by Microsoft

Subscription credits apply

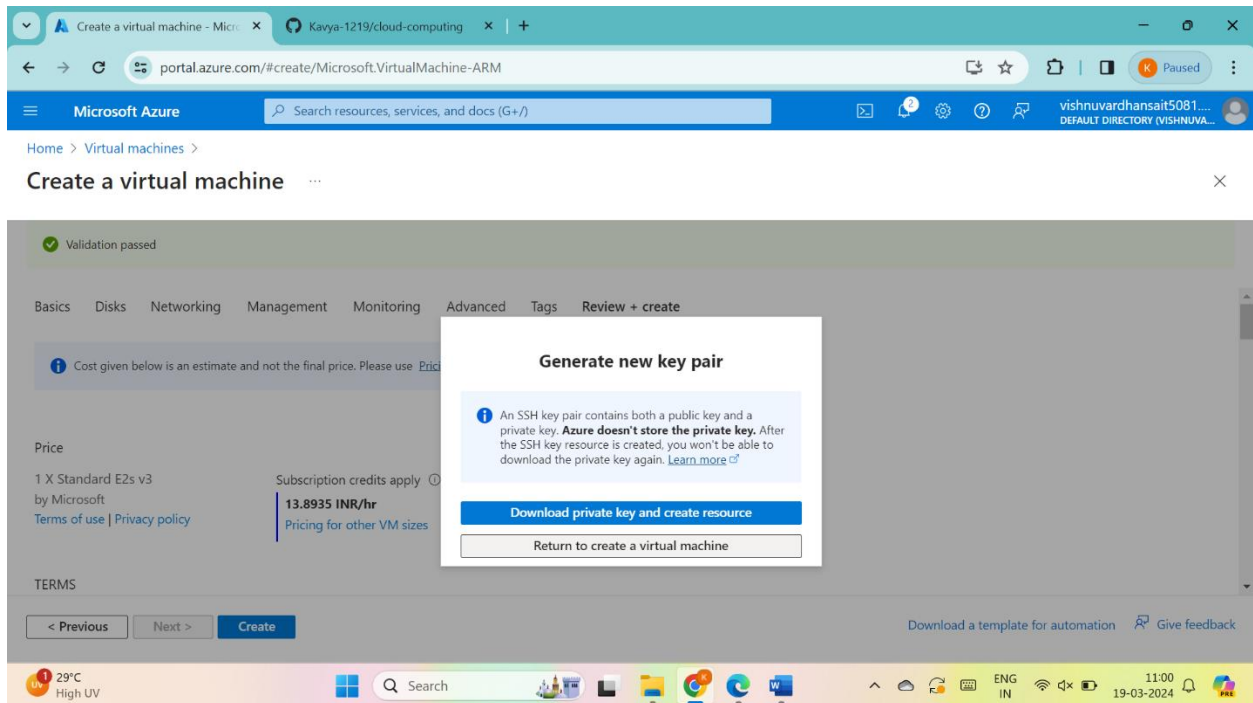
13.8935 INR/hr

Terms of use | Privacy policy

Pricing for other VM sizes

TERMS

Go to download private key and create resource



RESULT : THUS ,THE PROGRAM HAS BEEN EXCEUTED SUCCESSFULLY.

