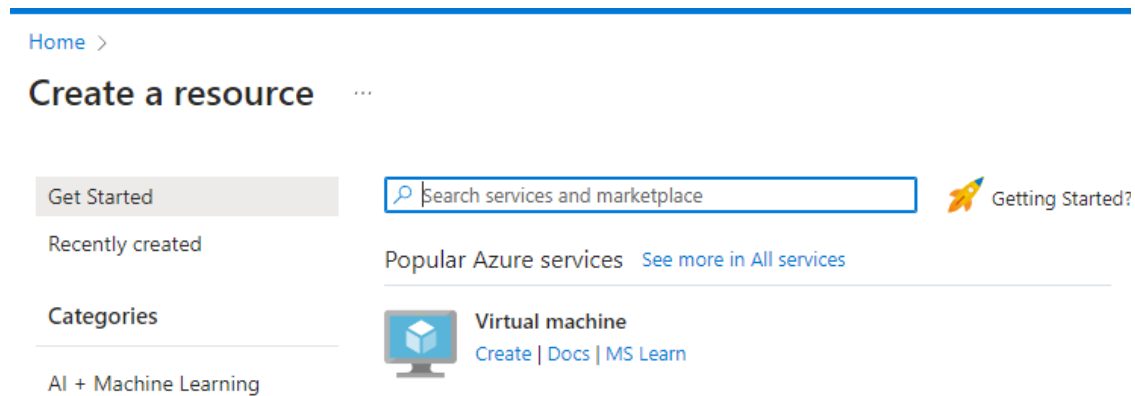
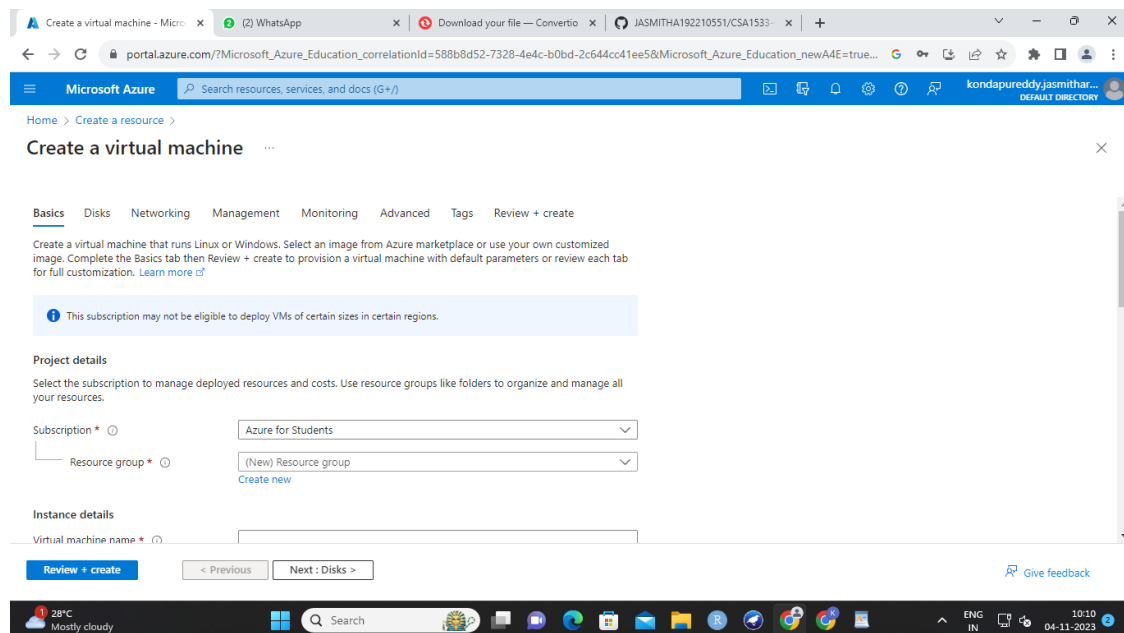


Demonstrate Infrastructure as a Service (IaaS) by creating a Virtual Machine using a Public Cloud Service Provider (Azure), configure with required memory and CPU.

STEP 1 :click on create resource and type for vm



step 2 : able to see all 8 tabs available in virtual machine



step 3 :

enter any name and write azure name

Microsoft Azure portal interface showing the "Create a virtual machine" wizard. The page is divided into sections for Project details, Instance details, and Inbound port rules.

Project details:

- Subscription: Azure for Students
- Resource group: jst

Instance details:

- Virtual machine name: reddy
- Region: Asia Pacific South India
- Availability options: No infrastructure redundancy required
- Security type: Trusted launch virtual machines
- Image: Ubuntu Server 20.04 LTS - x64 Gen2
- VM architecture: x64
- Run with Azure Spot discount: ☐
- Size: Standard_DS2_v3 - 2 vcpus, 8 GB memory (₹7,739.57/month)

Administrator account:

- Authentication type: ☒ SSH public key
- Username: azureuser
- SSH public key source: Generate new key pair
- Key pair name: reddy_key

Inbound port rules:

- Public inbound ports: ☒ Allow selected ports
- Select inbound ports: SSH (22)

The bottom of the page shows the "Review + create" button and the "Next: Disks" button.

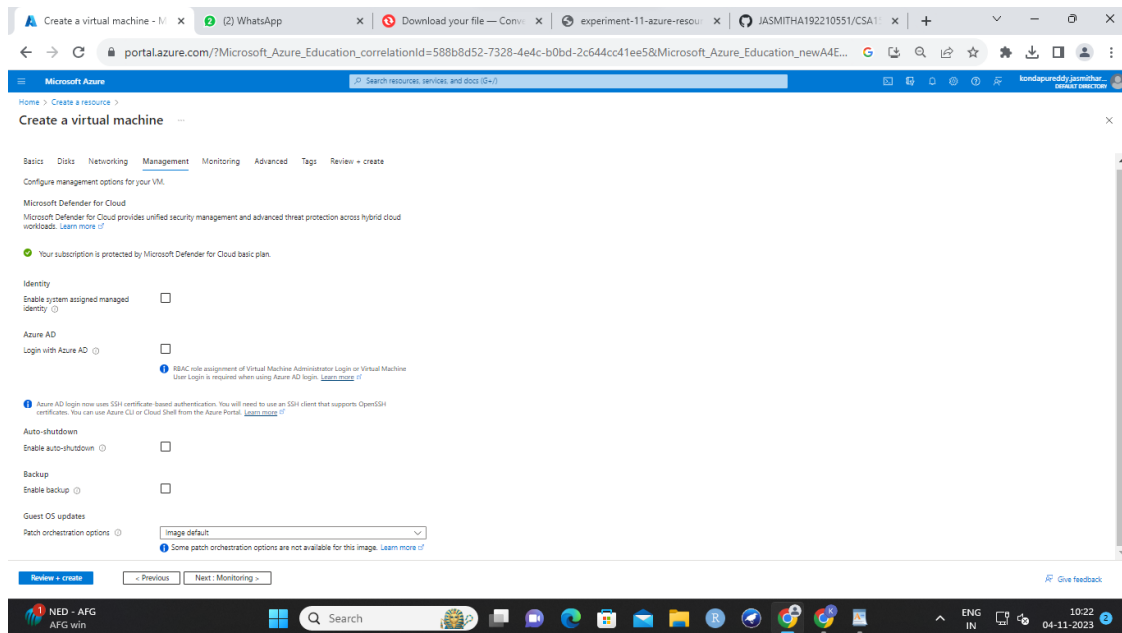
step 4 : enter data in disk

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal, specifically the 'Networking' step. The page is titled 'Create a virtual machine' and has tabs for 'Basics', 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', 'Tags', and 'Review + create'. The 'Networking' tab is selected. The page content includes a description of network connectivity and a form to configure the network interface. The form fields are: 'Virtual network' (set to '(new) reddy-net'), 'Subnet' (set to '(new) default (10.0.0/24)'), 'Public IP' (set to '(new) reddy-ip'), 'NIC network security group' (set to 'None'), 'Public inbound ports' (set to 'Allow selected ports'), and 'Select inbound ports' (set to 'SSH (22)'). There is a warning message: '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.' The 'Review + create' button is at the bottom left, and the 'Next: Management >' button is at the bottom right. The Windows taskbar at the bottom shows the date as 04-11-2023 and the time as 10:21.

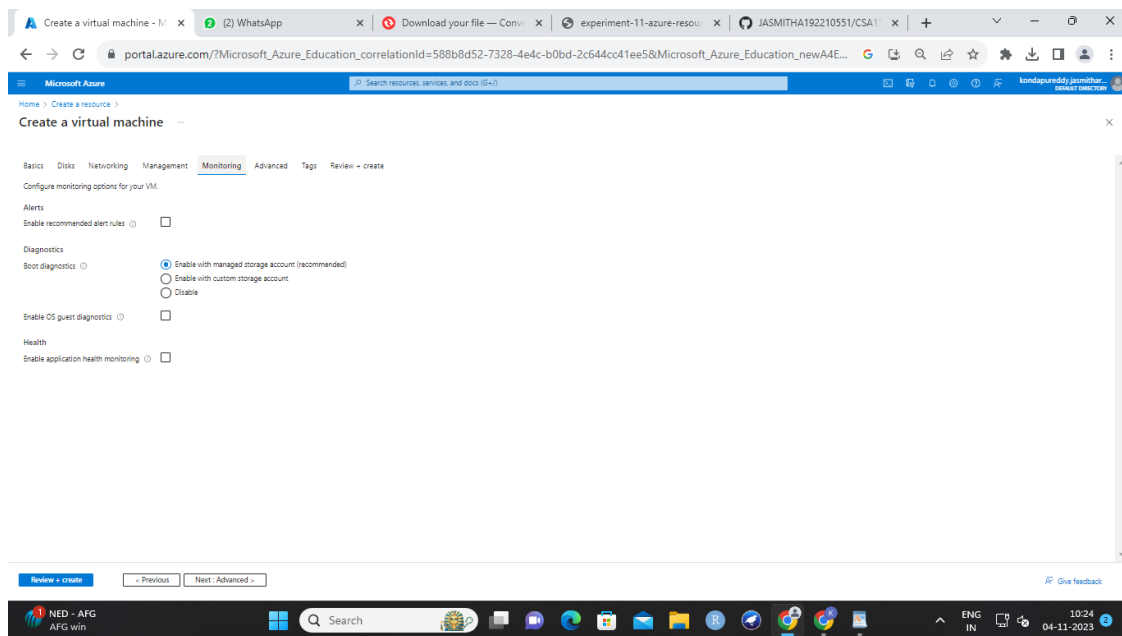
step 5 : go for networking

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal, specifically the 'Management and default' step. The page is titled 'Create a virtual machine' and has tabs for 'Basics', 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', 'Tags', and 'Review + create'. The 'Management' tab is selected. The page content includes a description of the virtual machine and a form to configure the management and default settings. The form fields are: 'Virtual machine name' (set to 'reddy-vm'), 'Resource group' (set to 'reddy-rg'), 'Location' (set to 'East US'), 'Virtual machine size' (set to 'Standard_DS1_v2'), 'OS disk' (set to 'Image default (30 GiB)'), 'OS disk type' (set to 'Premium SSD (locally-redundant storage)'), 'Delete with VM' (checked), 'Key management' (set to 'Platform-managed key'), 'Enable Ultra Disk compatibility' (unchecked), 'Data disks for redundancy' (set to 'None'), 'LUN' (set to '0'), 'Name' (set to 'reddy_DataDisk_0'), 'Size (GiB)' (set to '32'), 'Disk type' (set to 'Premium SSD LRS'), 'Host caching' (set to 'Read-only'), and 'Delete with VM' (checked). There is a warning message: '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.' The 'Review + create' button is at the bottom left, and the 'Next: Management >' button is at the bottom right. The Windows taskbar at the bottom shows the date as 04-11-2023 and the time as 10:21.

step 6 : then management and default



step 7 : default monitoring



step 8 : default advanced

Microsoft Azure portal interface showing the "Create a virtual machine" wizard. The "Extensions" tab is active, displaying options to add additional configuration, agents, scripts, or applications via virtual machine extensions or cloud-init. The "Custom data and cloud-init" section is visible, indicating that custom data on the selected image will be processed by cloud-init. The "User data" section is also visible, noting that a script, configuration file, or other data that will be accessible to your applications throughout the lifetime of the virtual machine. The "Review + create" button is highlighted.

step 9 : enter data in tags

Microsoft Azure portal interface showing the "Create a virtual machine" wizard. The "Tags" tab is active, displaying a table for adding tags. The table has columns for Name, Value, and Resource. The "ghn" tag is highlighted, showing a value of "789" and a resource of "13 selected".

Name	Value	Resource
abc	123	All resources
def	456	All resources
ghn	789	13 selected
		13 selected

step 10 : review

Microsoft Azure portal: Create a virtual machine

Validation passed

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

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

Price: 1 X Standard D2s v3 by Microsoft. Subscription credits apply. 10,602 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.

Name: jasmitha narender
 Preferred e-mail address: kondapureddy.jasmitha051.001@aveetha.com
 Preferred phone number:

You have set SSH port(s) open to the Internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.

Basics | Create | Previous | Next | Download a template for automation | Give feedback

step 11 : result

Microsoft Azure portal: Virtual machine overview for 'reddy'

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

Essentials

Resource group (move):	jas	Operating system:	Linux
Status:	Creating	Size:	Standard D2s v3 (2 vcpus, 8 GiB memory)
Location:	South India	Public IP address:	20.219.124.246
Subscription (move):	Azure for Students	Virtual network/subnet:	reddy-vnet/default
Subscription ID:	6603fa9c-2beb-432a-af66-92316e23428b	DNS name:	Not configured
Tags (edit):	abc : 123, def : 456, ghi : 789	Health state:	-

Properties | Monitoring | Capabilities (7) | Recommendations | Tutorials

Virtual machine		Networking	
Computer name	reddy	Public IP address	20.219.124.246 (Network interface reddy894)
Operating system	Linux	Public IP address (IPv6)	-
Image publisher	canonical	Private IP address	10.0.0.4
Image offer	0001-com-ubuntu-server-focal	Private IP address (IPv6)	-

