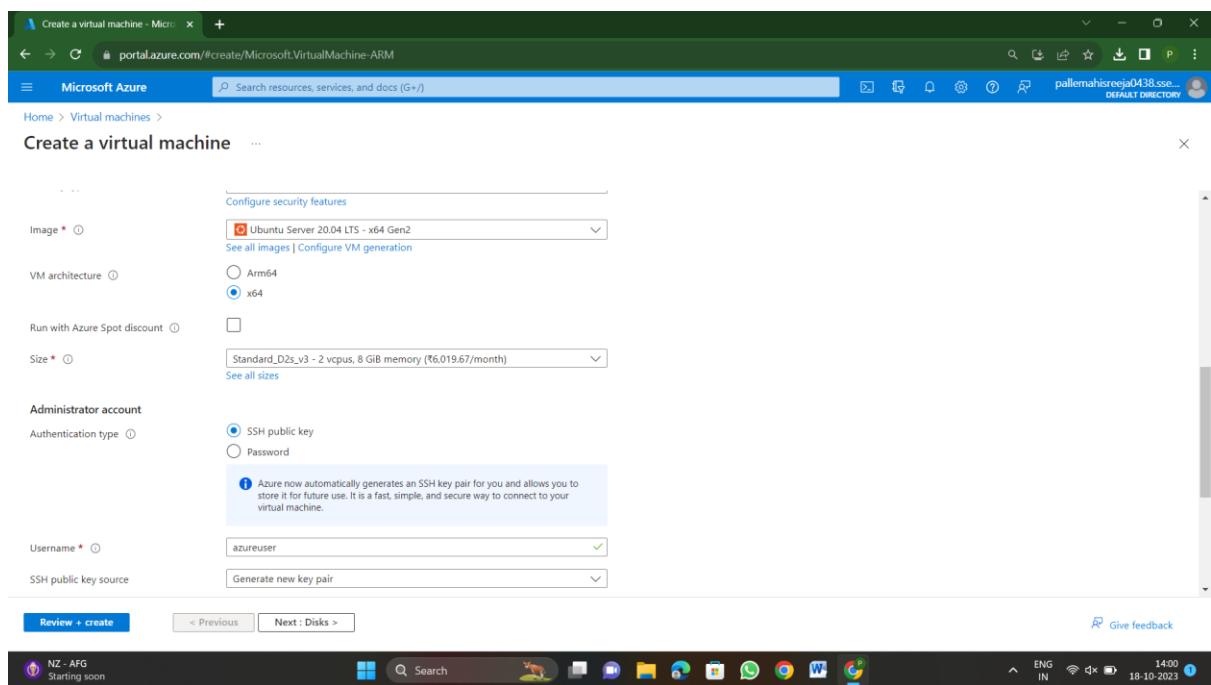
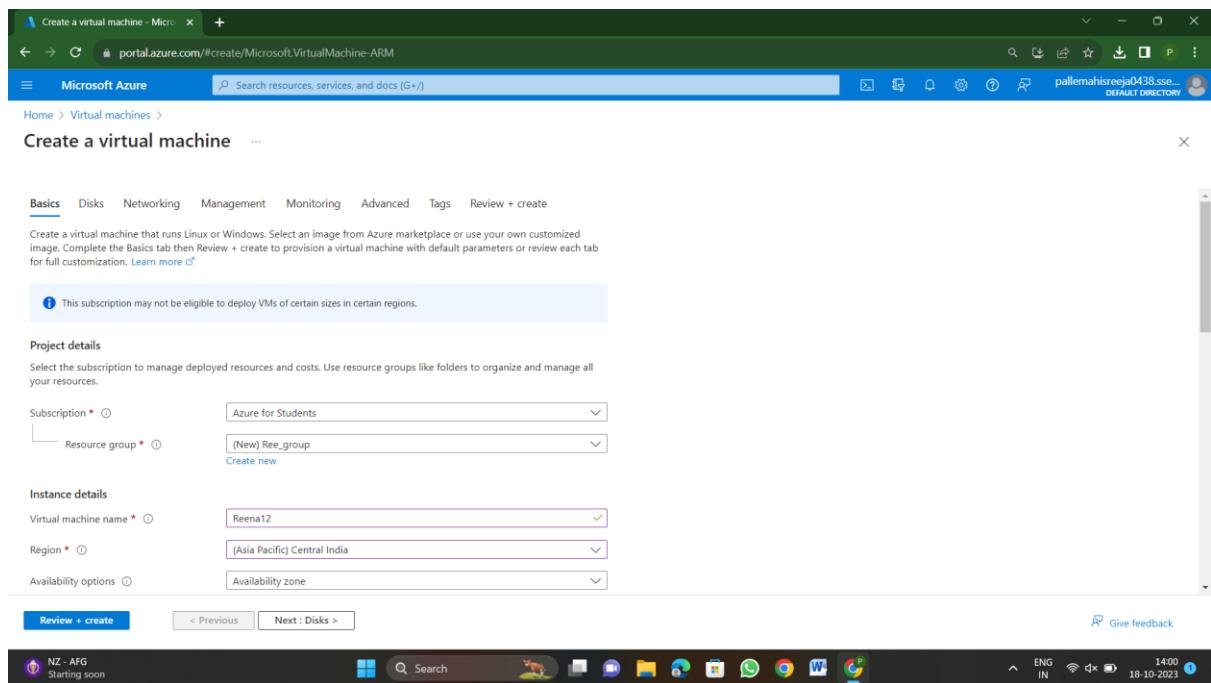


**EXP NO:-14-Demonstrate Infrastructure as a Service (IaaS) by establishing the remote connection, launch the created VM image and run in your desktop.**

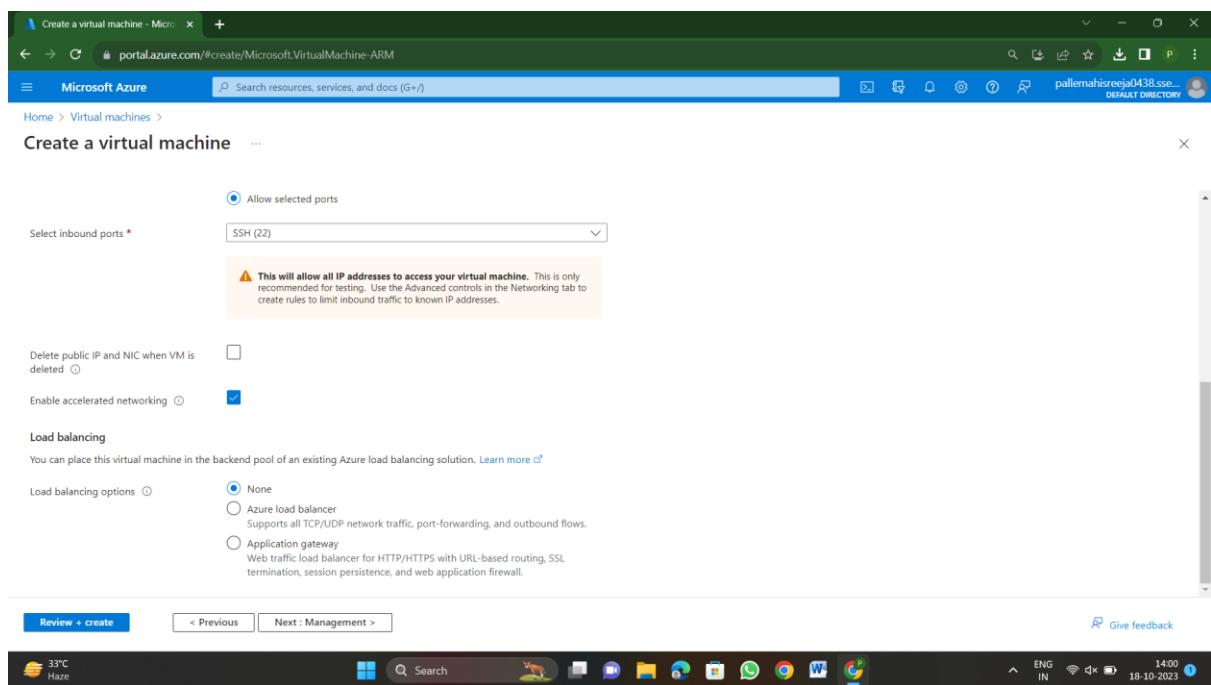
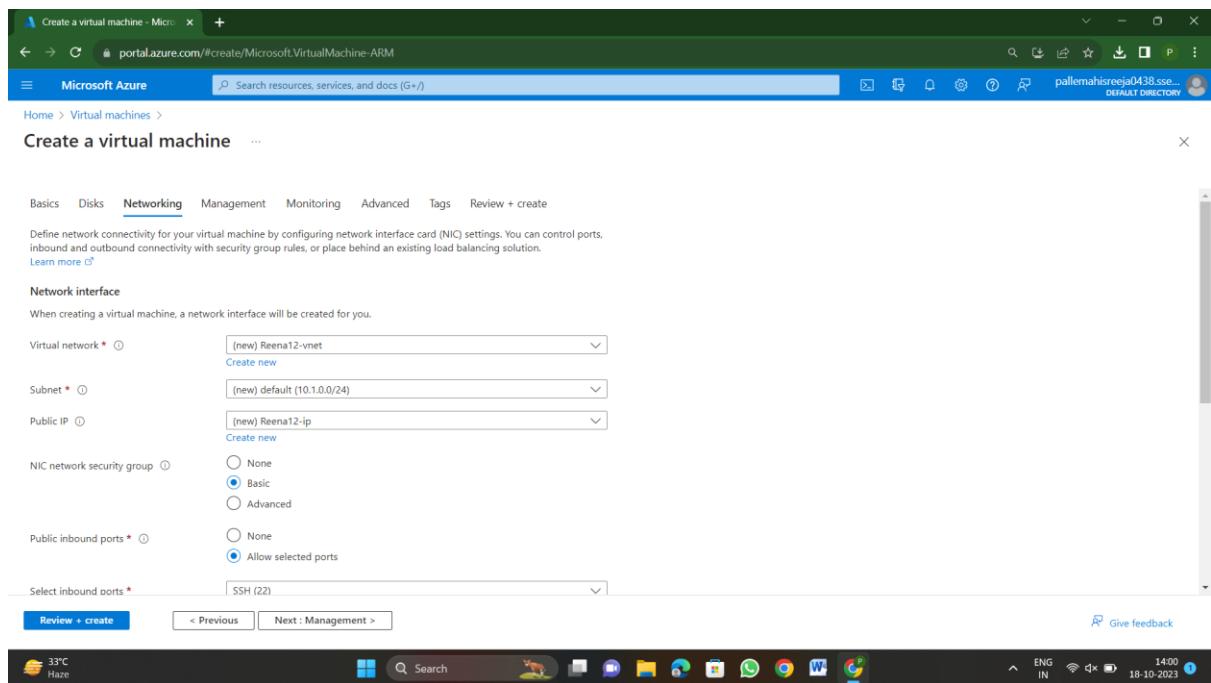
The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes 'Virtual machines - Microsoft Azure' and the URL 'portal.azure.com/#view/HubsExtension/BrowseResource/resourceType/Microsoft.Compute%2FVirtualMachines'. The main content area is titled 'Virtual machines' and displays a message: 'No virtual machines to display'. It provides instructions to 'Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.' A prominent blue 'Create' button is visible. Below the message, there are links to 'Learn more about Windows virtual machines' and 'Learn more about Linux virtual machines'. The bottom of the screen shows a taskbar with various icons and system status information.

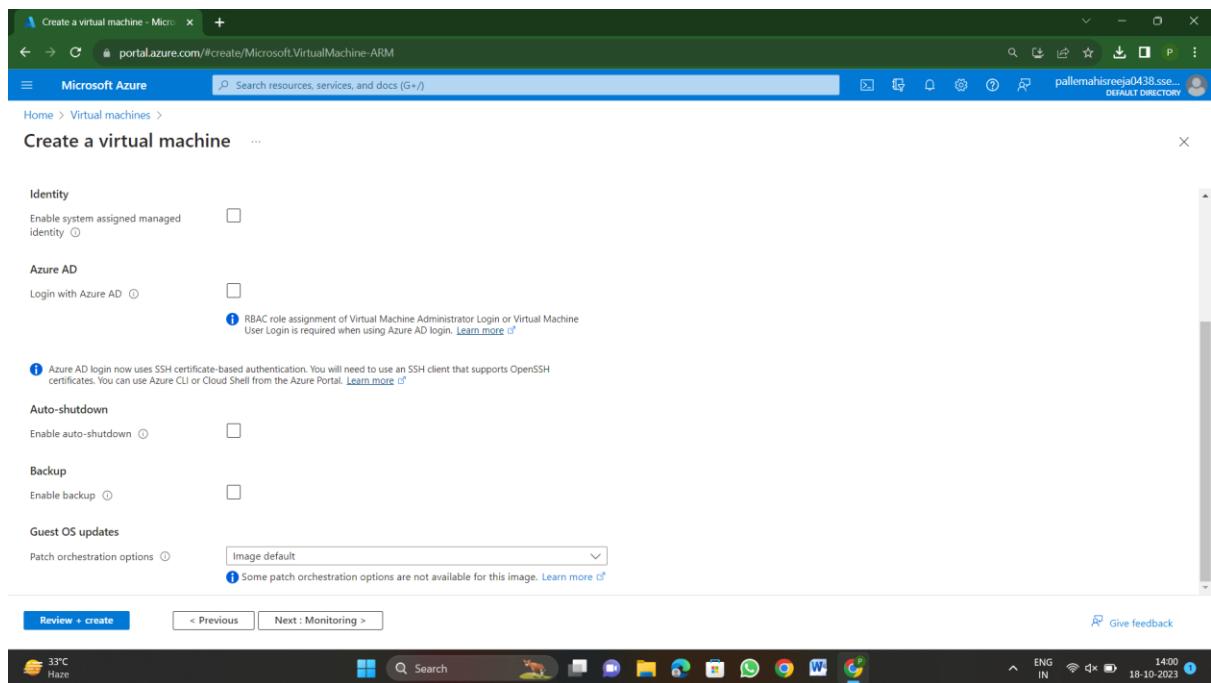
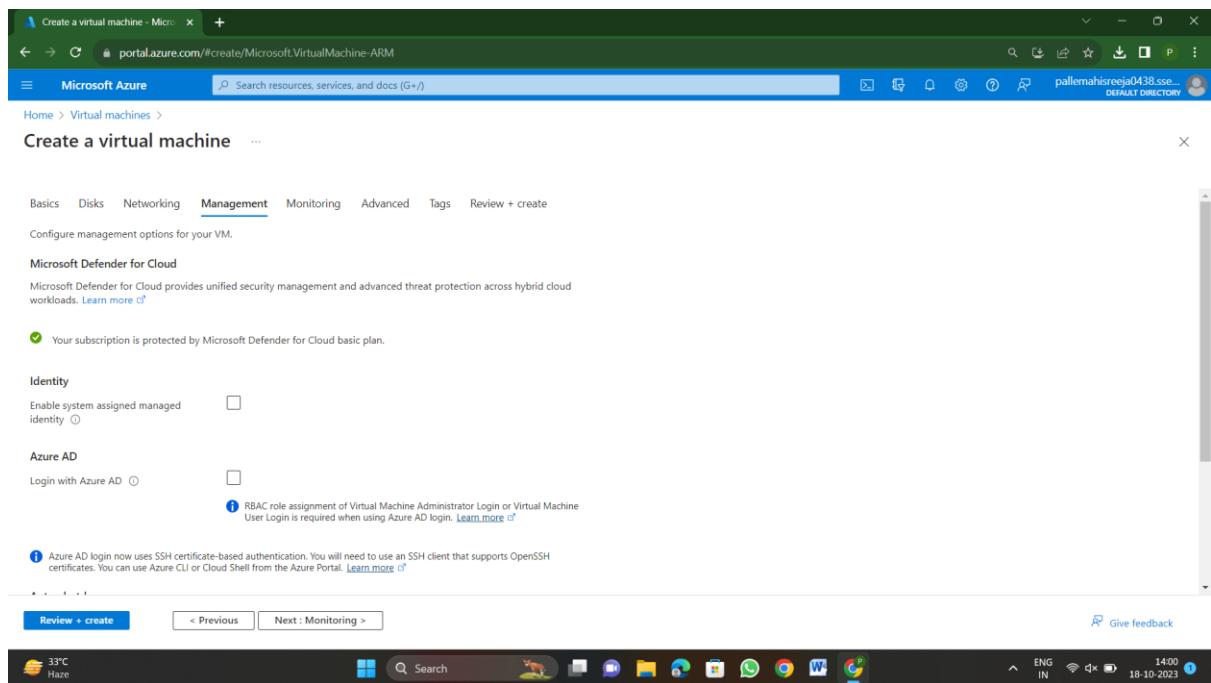
The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The current step is 'Basics'. The title bar says 'Create a virtual machine - Microsoft Azure'. The main content area is titled 'Create a virtual machine' and displays a message: 'Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. Learn more'. Below this, there is a note: 'This subscription may not be eligible to deploy VMs of certain sizes in certain regions.' The 'Project details' section allows selecting a subscription ('Azure for Students') and a resource group ('(New) Resource group'). The 'Instance details' section includes fields for 'Virtual machine name' (empty), 'Region' (empty), and 'Availability options' (set to 'No infrastructure redundancy required'). At the bottom, there are buttons for 'Review + create' and 'Next : Disks >'. The bottom of the screen shows a taskbar with various icons and system status information.

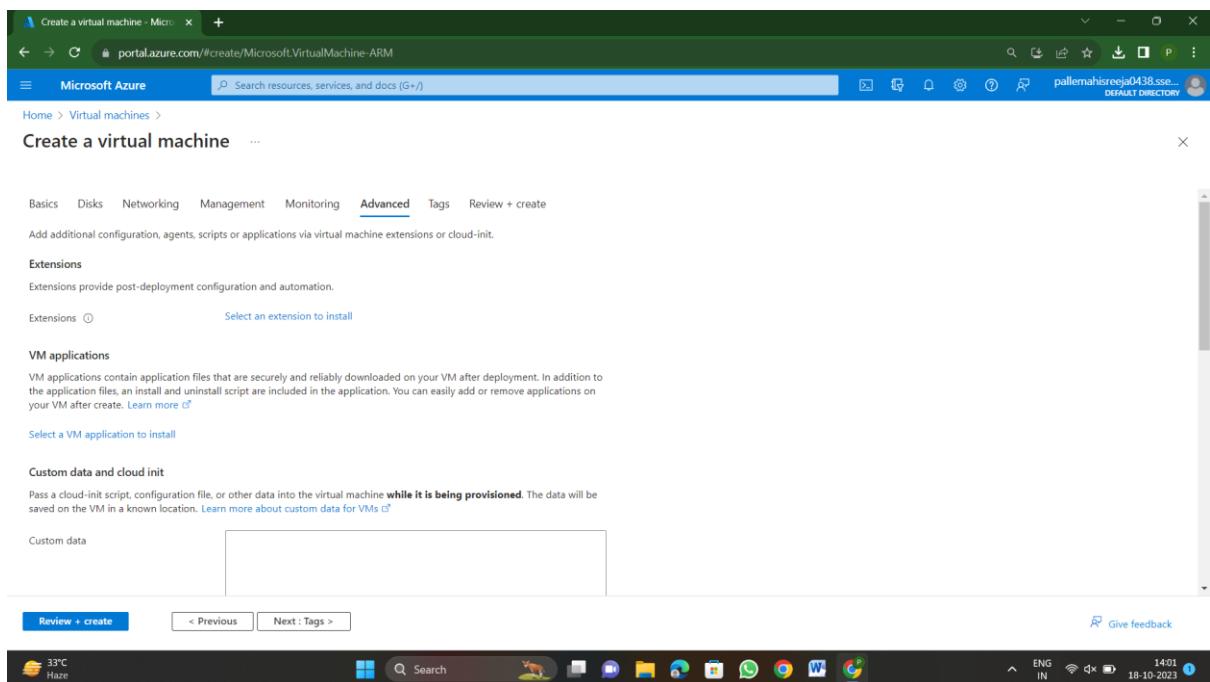
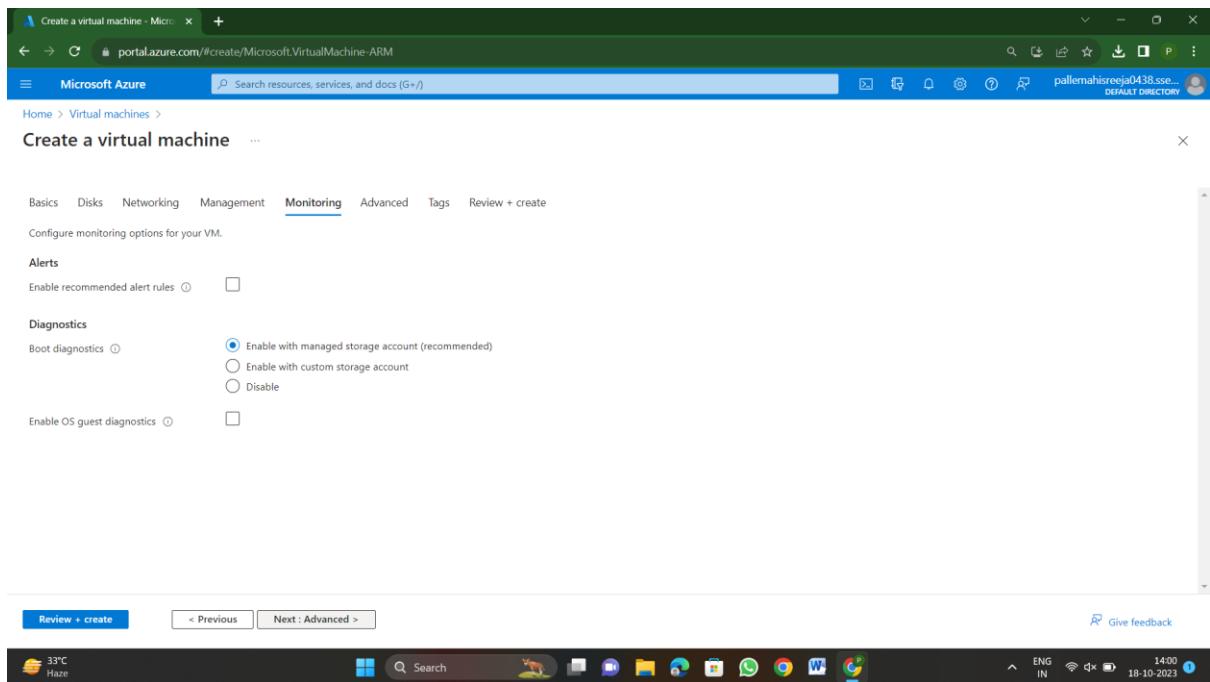


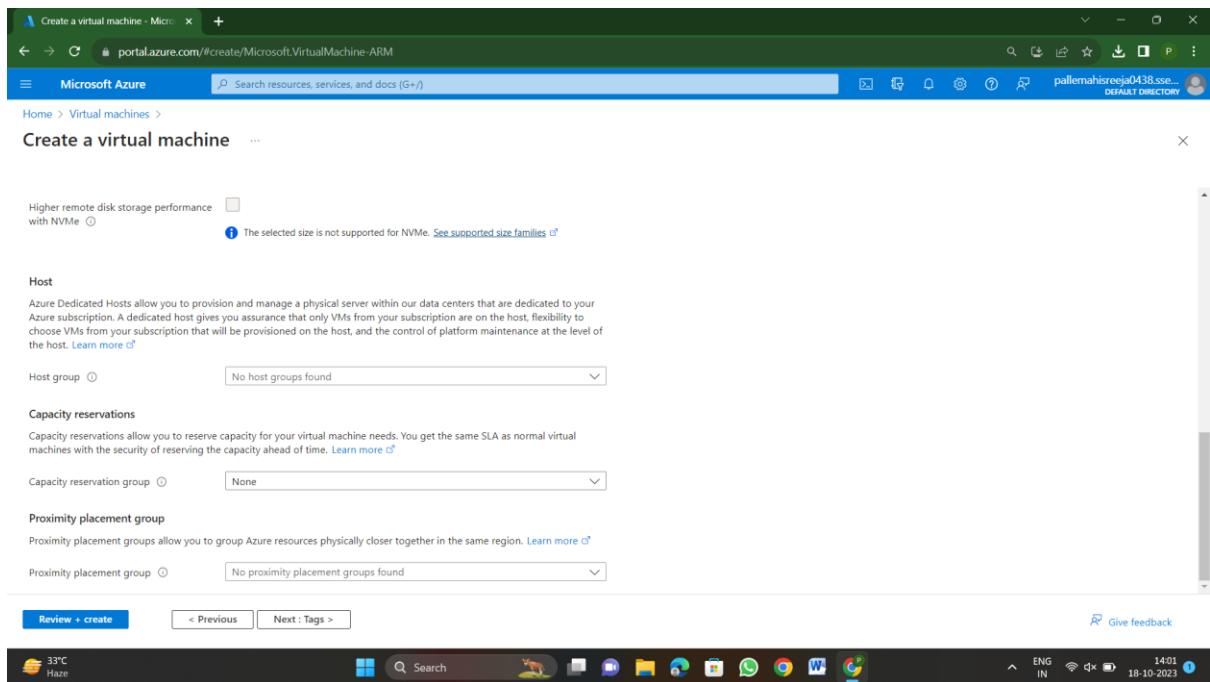
The screenshot shows the Microsoft Azure portal interface for creating a new virtual machine. The top navigation bar includes 'Microsoft Azure', a search bar, and user information. The main page title is 'Create a virtual machine'. The current step is 'Disks', indicated by a blue underline. A note states: 'Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks.' Below this, under 'VM disk encryption', it says: '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.' There is a checkbox for 'Encryption at host' which is unchecked. A tooltip message reads: 'Encryption at host is not registered for the selected subscription. Learn more about enabling this feature.' The 'OS disk' section shows 'OS disk size' set to '32 GiB (P4)' with a checkmark. A note below says: '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.' Under 'OS disk type', 'Premium SSD (locally-redundant storage)' is selected. A 'Delete with VM' checkbox is checked. At the bottom are 'Review + create' and 'Next : Networking >' buttons, along with a 'Give feedback' link.

This screenshot continues the 'Create a virtual machine' wizard on the 'Disks' step. The 'Key management' section is now expanded, showing 'Platform-managed key' selected. A note below states: 'Ultra disk is not supported with selected security type.' The 'Data disks for Reena1' section is visible, with a note: 'You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.' Below this is a table for managing data disks, with columns: LUN, Name, Size (GiB), Disk type, Host caching, and Delete with VM. Buttons for 'Create and attach a new disk' and 'Attach an existing disk' are present. At the bottom are 'Review + create', 'Previous', 'Next : Networking >', and 'Give feedback' buttons, along with the familiar Windows taskbar.









Higher remote disk storage performance  with NVMe ⓘ The selected size is not supported for NVMe. See supported size families ⓘ

**Host**  
Azure Dedicated Hosts allow you to provision and manage a physical server within our data centers that are dedicated to your Azure subscription. A dedicated host gives you assurance that only VMs from your subscription are on the host, flexibility to choose VMs from your subscription that will be provisioned on the host, and the control of platform maintenance at the level of the host. [Learn more ⓘ](#)

Host group ⓘ  No host groups found ✓

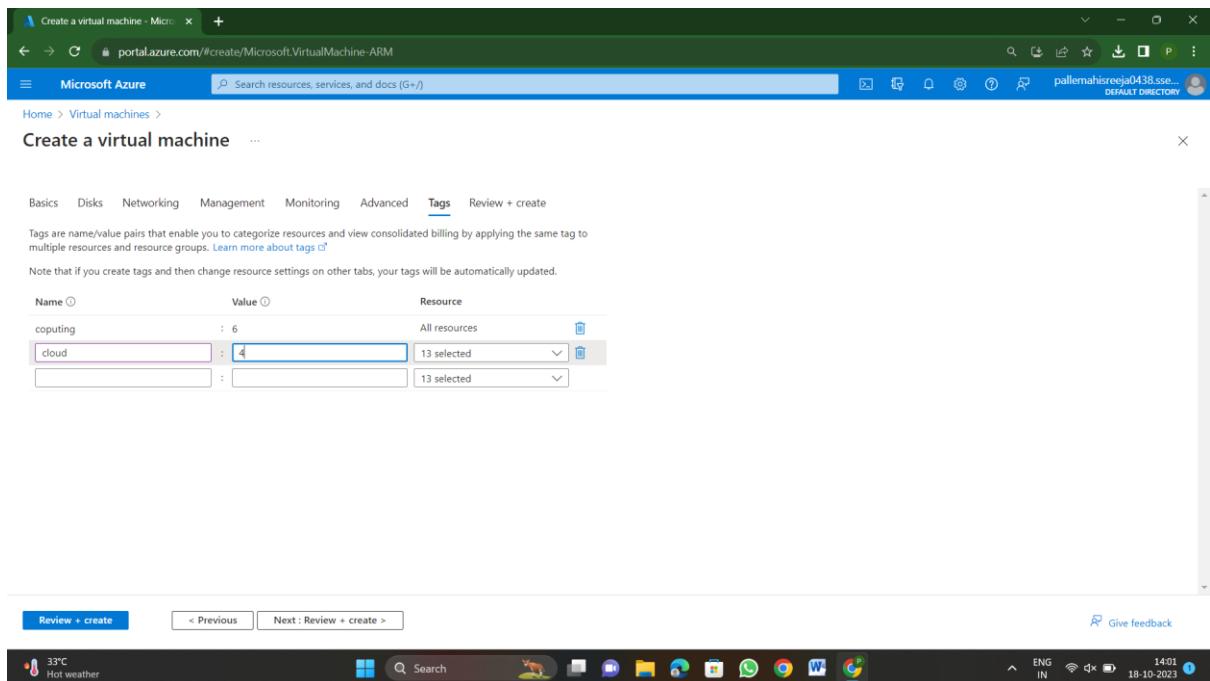
**Capacity reservations**  
Capacity reservations allow you to reserve capacity for your virtual machine needs. You get the same SLA as normal virtual machines with the security of reserving the capacity ahead of time. [Learn more ⓘ](#)

Capacity reservation group ⓘ  None ✓

**Proximity placement group**  
Proximity placement groups allow you to group Azure resources physically closer together in the same region. [Learn more ⓘ](#)

Proximity placement group ⓘ  No proximity placement groups found ✓

**Review + create** < Previous Next : Tags > Give feedback



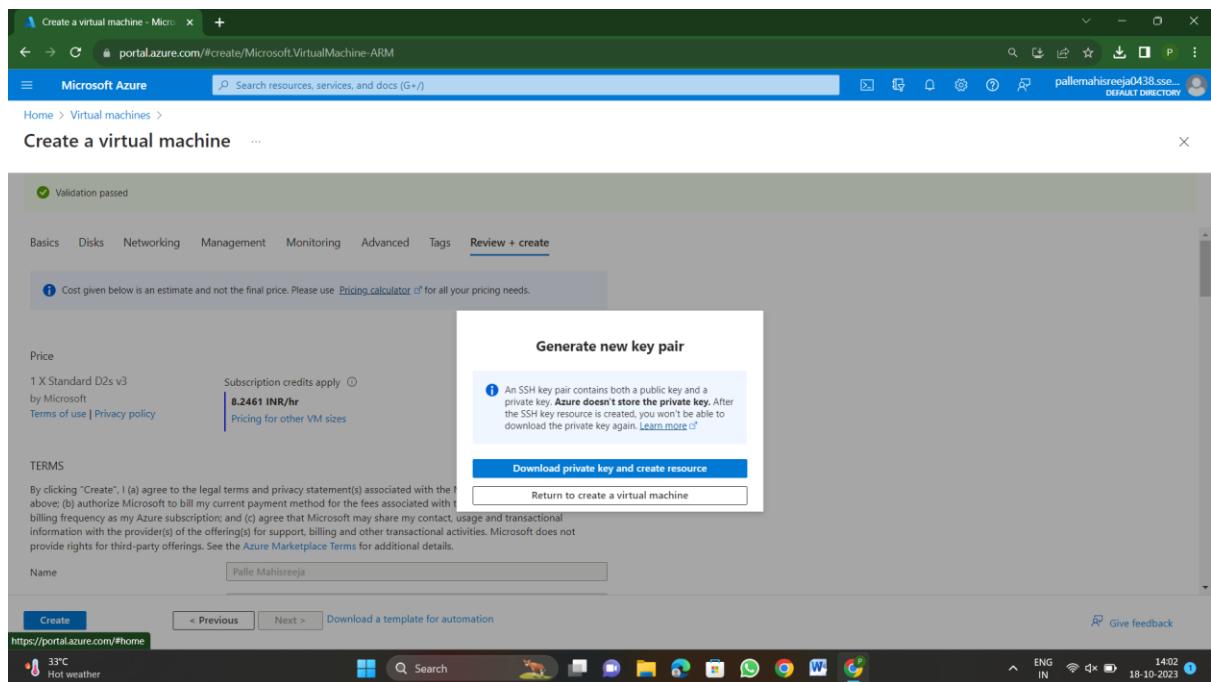
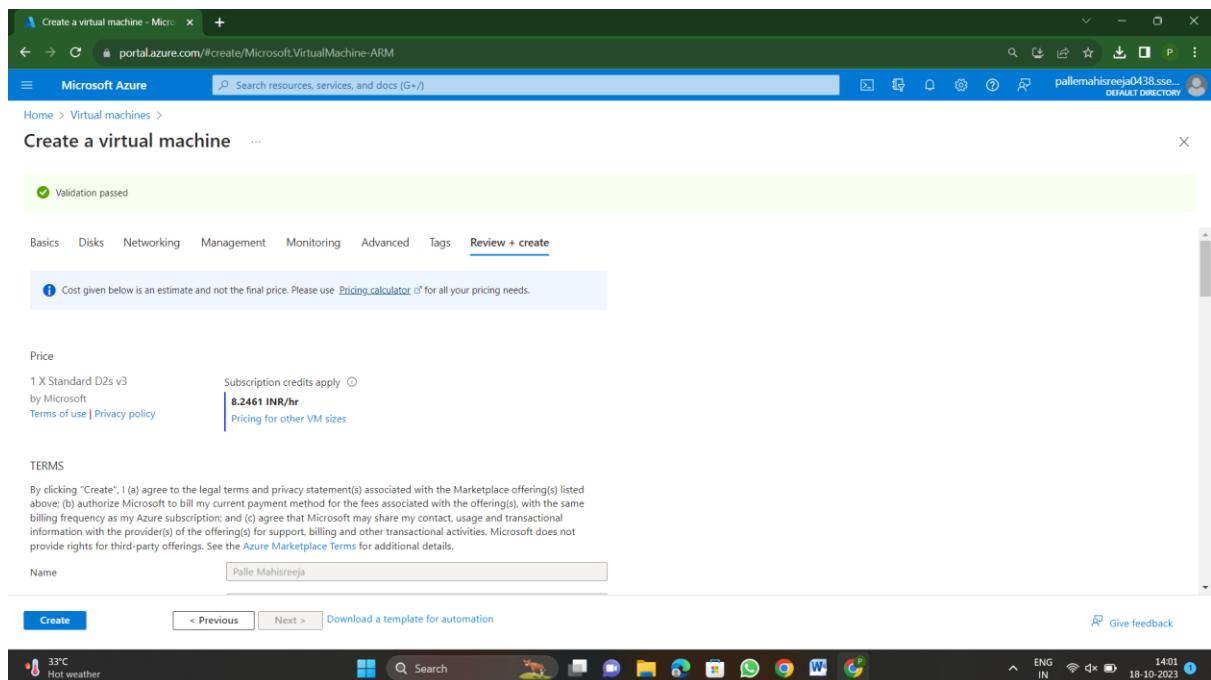
Basics Disks Networking Management Monitoring Advanced Tags Review + create

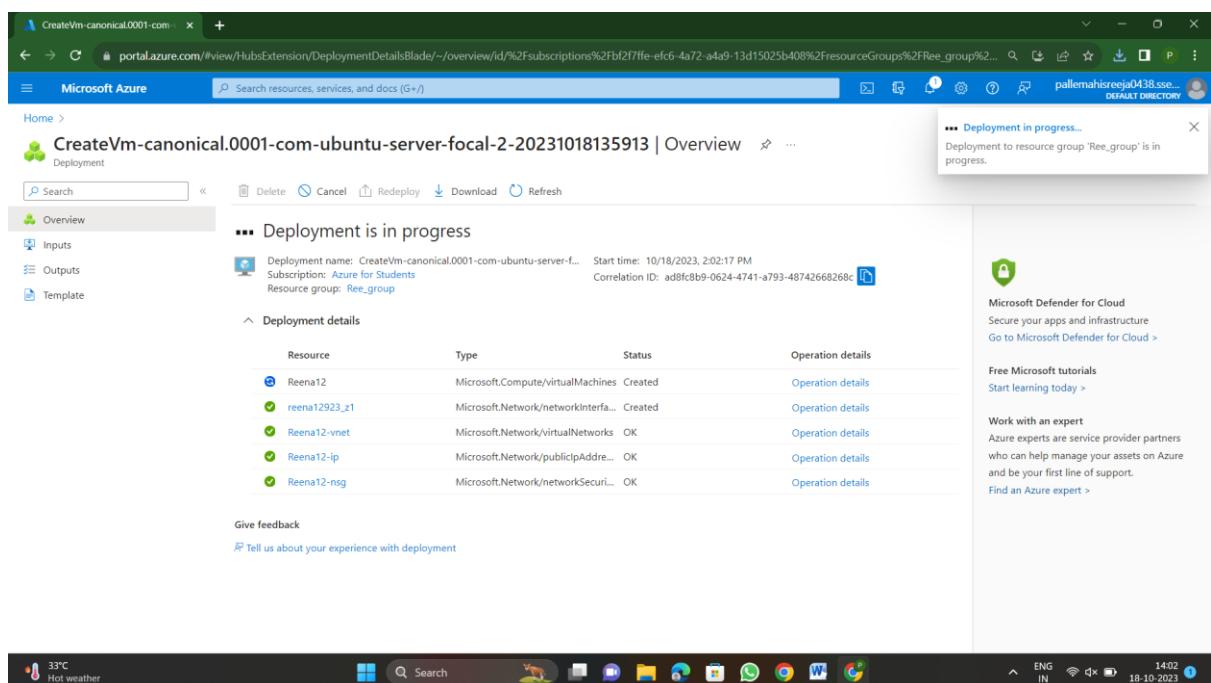
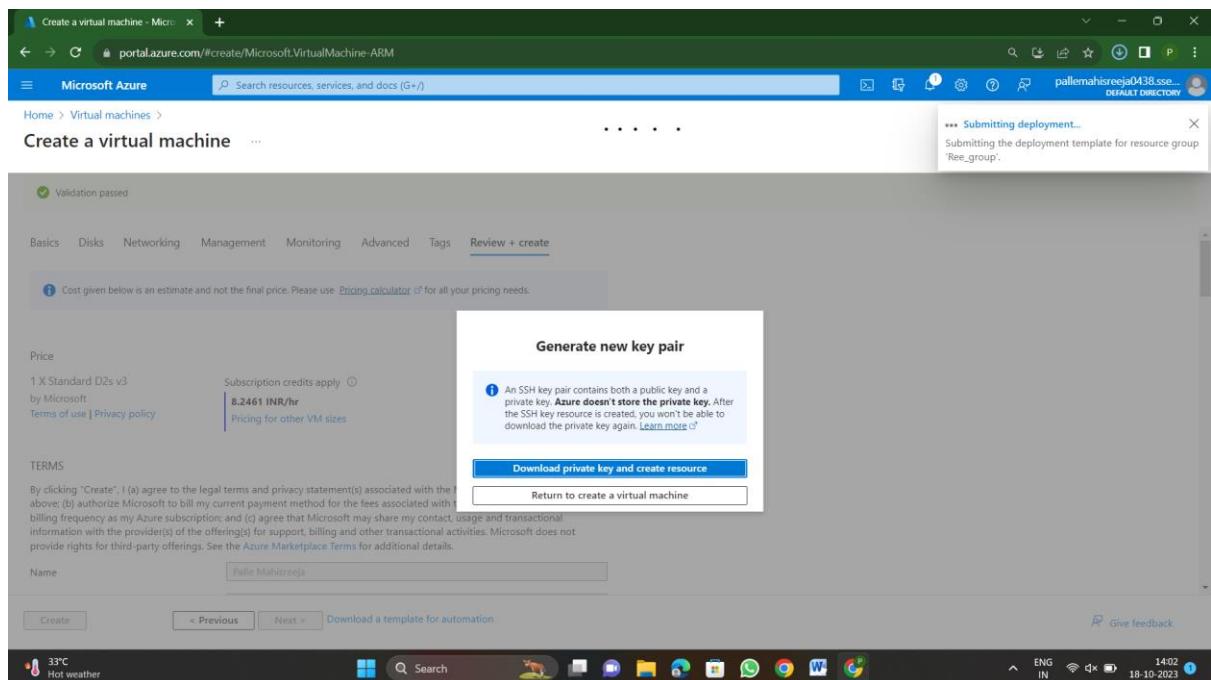
Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags ⓘ](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name ⓘ	Value ⓘ	Resource
couting	: 6	All resources
cloud	: 4	13 selected
	:	13 selected

**Review + create** < Previous Next : Review + create > Give feedback





The screenshot shows the Microsoft Azure portal interface. The main title bar reads "CreateVm-canonical.0001-com-ubuntu-server-focal-2-20231018135913 | Overview". The left sidebar has sections for Overview, Inputs, Outputs, and Template. The main content area displays a green checkmark indicating "Your deployment is complete". It shows deployment details: name "CreateVm-canonical.0001-com-ubuntu-server-f...", start time "10/18/2023, 2:02:17 PM", subscription "Azure for Students", and resource group "Ree\_group". Below this are sections for Deployment details, Next steps, and a "Go to resource" button. On the right side, there are promotional cards for Cost Management, Microsoft Defender for Cloud, Free Microsoft tutorials, and Work with an expert.

The screenshot shows the Microsoft Azure portal interface for a virtual machine named "Reena12". The title bar reads "Reena12 - Microsoft Azure". The left sidebar includes sections for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Networking, Connect, Disks, Size, Microsoft Defender for Cloud, Advisor recommendations, Extensions + applications, Availability + scaling, Configuration, Identity, Properties), and Locale. The main content area shows the "Essentials" tab with detailed information about the VM, such as Resource group (Ree\_group), Status (Running), Location (Central India (Zone 1)), Subscription (Azure for Students), Subscription ID (bf2f7ffe-efc6-4a72-a4a9-13d15025b408), Availability zone (1), and Tags (computing: 6, cloud: 4). The "Properties" tab is selected, displaying tabs for Virtual machine, Networking, Monitoring, Capabilities (7), Recommendations, and Tutorials. Under the Virtual machine tab, details like Computer name (Reena12), Operating system (Linux (ubuntu 20.04)), and Image publisher (canonical) are shown. Under the Networking tab, network interface details like Public IP address (20.197.43.94) and Private IP address (10.1.0.4) are listed. The bottom status bar shows the date (18-10-2023) and time (14:03).

The screenshot shows the Microsoft Azure portal interface. The main title bar reads "Reena12 - Microsoft Azure". The address bar shows the URL "portal.azure.com/#/pallemahisreeja0438sseavee.microsoft.com/resource/subscriptions/bf2f7ffe-efc6-4a72-a4a9-13d15025b408/resourcegroups/Ree\_group/providers/Microsoft...". The top navigation bar includes icons for back, forward, search, and user information. Below the navigation bar, the page title is "Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20231018135913 | Overview > Reena12".  
The left sidebar contains the following navigation items:

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
  - Networking
  - Connect
  - Disk
  - Size
  - Microsoft Defender for Cloud
  - Advisor recommendations
  - Extensions + applications
  - Availability + scaling
  - Configuration
  - Identity
  - Properties
- Location: 33°C Hot weather

  
The main content area displays the "Essentials" section for the virtual machine "Reena12". It includes the following details:

Resource group (move)	: <a href="#">Ree_group</a>
Status	: Running
Location	: Central India (Zone 1)
Subscription (move)	: <a href="#">Azure for Students</a>
Subscription ID	: bf2f7ffe-efc6-4a72-a4a9-13d15025b408
Availability zone	: 1
Tags (edit)	: coputing : 6 cloud : 4

  
The "Properties" tab is selected, showing the following configuration:

Virtual machine	Networking
Computer name	Reena12
Operating system	Linux (ubuntu 20.04)
Image publisher	canonical
Image offer	0001-com-ubuntu-server-focal
Image plan	20_04-lts-gen2
VM generation	V2
VM architecture	x64
Public IP address	20.197.43.94 ( Network interface reena12923_z1 )
Public IP address (IPv6)	-
Private IP address	10.1.0.4
Private IP address (IPv6)	-
Virtual network/subnet	Reena12-vnet/default
DNS name	Configure

  
At the bottom, there is a Windows taskbar with various pinned icons and system status indicators.

The screenshot shows the Microsoft Azure portal interface, similar to the previous one but with a different focus. The main title bar reads "Reena12 - Microsoft Azure". The address bar shows the same URL as the previous screenshot. The top navigation bar is identical.  
The left sidebar contains the same navigation items as the previous screenshot.  
The main content area displays the "Connect" section for the virtual machine "Reena12". It includes the following details:

Connecting using	
Public IP address   20.197.43.94	
Admin username	: azureuser
Port (change)	: 22 <a href="#">Check access</a>
Just-in-time policy	: Unsupported by plan

  
The "Recommended" and "Most common" sections show two connection methods:

- SSH using Azure CLI**: Quickly connect in browser. Supports Azure AD authentication. Private key not required. Public IP address (20.197.43.94). [Select](#)
- Native SSH**: No additional software needed. Private key required for connection. Best for those with existing SSH tools. Public IP address (20.197.43.94). [Select](#)

  
At the bottom, there is a Windows taskbar with various pinned icons and system status indicators.

The screenshot shows the Azure portal interface. On the left, the 'Reena12 | Connect' blade is open, displaying connection options like 'SSH using Azure CLI' and 'Native SSH'. On the right, a modal window titled 'SSH using Azure CLI' provides detailed instructions and prerequisites for connecting via the Azure CLI. It includes sections for 'Ready for configuration', 'Port 22 access', and 'Public IP address: 20.197.43.94'. A note at the bottom states: 'I understand just-in-time policy on the virtual machine may be re-configured to allow any source IP to request just-in-time access to port 22.'

This screenshot is identical to the one above, showing the Azure portal interface with the 'Reena12 | Connect' blade open and the 'SSH using Azure CLI' help page displayed in a modal window. The content and layout are the same, providing step-by-step instructions for connecting to the virtual machine using the Azure CLI.

