

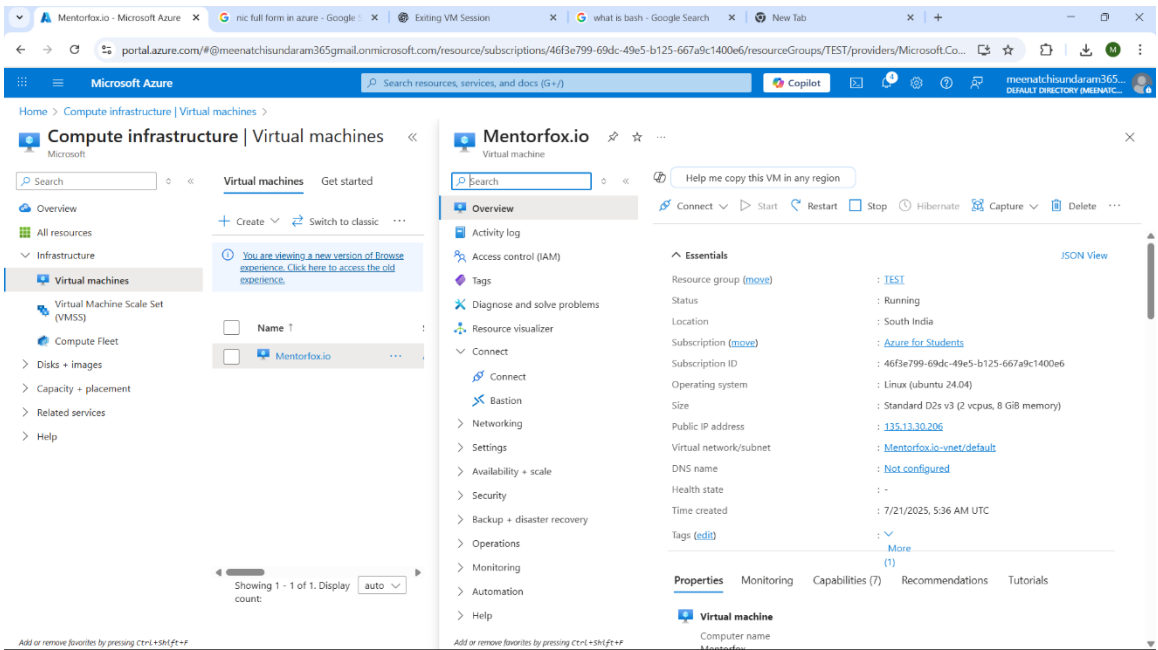
# POC DOCUMENTATION

**Task : Creating an Azure Virtual Machine based on the MENTORFOX.IO Requirement**

## STEP : 1

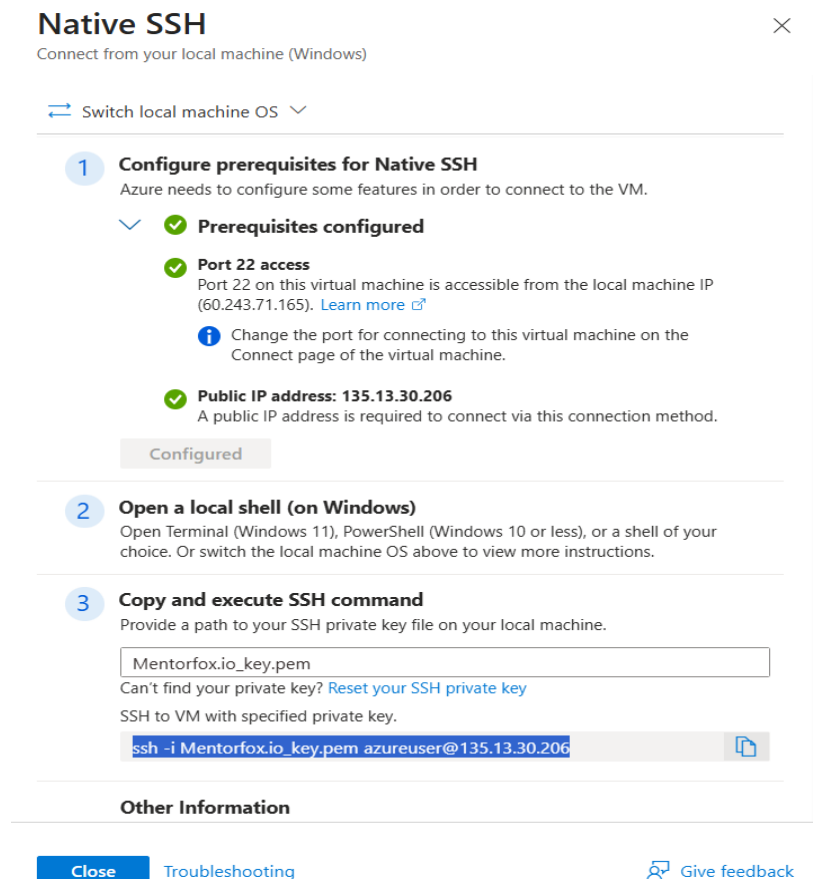
✂ VM Configuration Details :

Setting	Value
**Resource Group**	TEST
**Virtual Machine Name**	Mentorfox.io
**Region**	South India
**Subscription**	Azure for Students
**Operating System**	Linux (Ubuntu 24.04)
**Size**	Standard D2s v3 (2 vCPUs, 8 GiB memory)
**Public IP Address**	135.13.30.206
**Virtual Network**	Mentorfox.io-vnet
**Admin Access**	SSH Public Key (default during creation)
**Created At**	7/21/2025, 5:36 AM UTC



## STEP : 2

Accessed the Azure Virtual Machine (Mentorfox.io) securely using **SSH key-based authentication** through Windows PowerShell



Created a directory named office\_details on the Azure Virtual Machine and added a text file named worker\_details.txt within it. The file contains structured employee information formatted according to organizational standards."

```
azureuser@Mentorfox: ~  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
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.  
  
azureuser@Mentorfox:~$ pwd  
/home/azureuser  
azureuser@Mentorfox:~$ mkdir officefile  
azureuser@Mentorfox:~$ ls  
officefile  
azureuser@Mentorfox:~$ vim workers-details.txt  
azureuser@Mentorfox:~$ ls  
officefile  workers-details.txt  
azureuser@Mentorfox:~$ |
```

## METHOD 2 :

"Connected to the Azure Virtual Machine using Azure PowerShell, enabling secure and command-line-based remote management of cloud resources."

### SSH using Azure CLI

Connect from the Azure portal



Connect from your local machine

#### 1 Configure prerequisites for SSH using Azure CLI

Azure needs to configure some features in order to connect to the VM.

##### ✓ Ready for configuration



##### System assigned managed identity

Azure will configure a system-assigned managed identity in order to enable the Microsoft Entra ID login extension. [Learn more](#)



##### Microsoft Entra ID SSH Login Extension

The Microsoft Entra ID based SSH Login extension will securely connect to the VM using Microsoft Entra ID instead of SSH or a username and password. [Learn more](#)



##### Virtual machine user or administrator login

A virtual machine administrator login role on the resource group will allow login to the virtual machine via CloudShell. [Learn more](#)



##### Port 22 access

Port 22 is accessible on this virtual machine for all configured IPs. [Learn more](#)



Change the port for connecting to this virtual machine on the Connect page of the virtual machine.



##### Public IP address: 135.13.30.206

A public IP address is required to connect via this connection method.



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.

**Configure + connect**

Close

Troubleshooting



Give feedback

Switch to Bash Restart Manage files New session Editor Web preview Settings Help

— ↗ ✕

```
Requesting a Cloud Shell.Succeeded.  
Connecting terminal...
```

```
Welcome to Azure Cloud Shell
```

```
Type "az" to use Azure CLI
```

```
Type "help" to learn about Cloud Shell
```

```
Your Cloud Shell session will be ephemeral so no files or system changes will persist beyond your current session.
```

```
MOTD: SqlServer has been updated to Version 22!
```

```
VERBOSE: Authenticating to Azure ...
```

```
VERBOSE: Building your Azure drive ...
```