

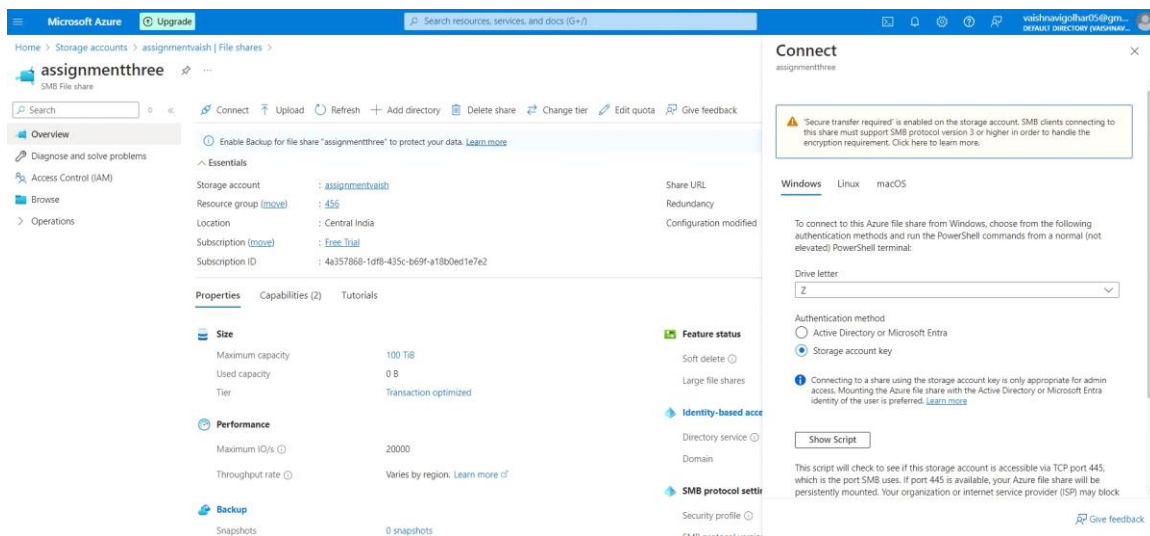
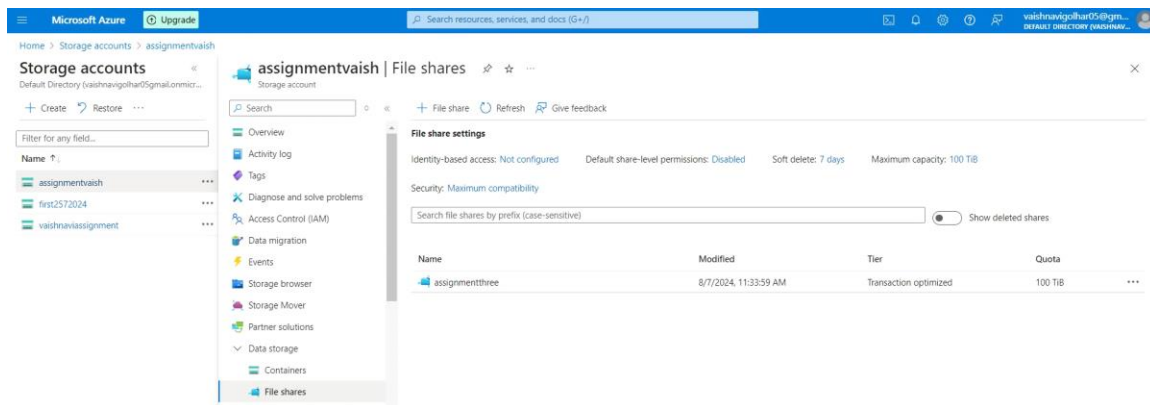
Module 2: Assignment 3

Tasks To Be Performed:

1. Create a file share in Azure Storage
2. Mount this file share on Windows and Linux

Solution:

1. Create a File Share in Azure Storage



2. Mount the File Share on Windows

The screenshot displays the Microsoft Azure portal interface for a Windows Virtual Machine. The left sidebar contains navigation options such as Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Connect, Bastion, Windows Admin Center, Networking, Settings, Disks, Extensions + applications, Operating system, Configuration, Advisor recommendations, Properties, and Locks. The main content area is titled 'Windows' and includes a search bar and action buttons like Connect, Start, Restart, Stop, Hibernate, Capture, Delete, Refresh, Open in mobile, Feedback, and CLI / PS. The 'Essentials' section provides key information: Resource group (456), Status (Running), Location (Central India), Subscription (Free Trial), and Subscription ID (4a357868-1d8b-435c-b69f-a18b0ed1e7e2). It also lists the Operating system (Windows Server 2022 Datacenter Azure Edition), Size (Standard B1s), Public IP address (52.172.207.208), Virtual network/subnet (Windows-vnet/default), DNS name (Not configured), Health state (-), and Time created (8/7/2024, 4:43 AM UTC). Below this, the 'Properties' tab is active, showing details for the Virtual machine, including Computer name (Windows), Operating system (Windows Server 2022 Datacenter Azure Edition), VM generation (V2), VM architecture (x64), Agent status (Ready), Agent version (2.7.41491.1131), Hibernation (Disabled), and Host group (-). The 'Networking' section shows the Public IP address (52.172.207.208) and Private IP address (10.0.0.4). The 'Size' section shows the Standard B1s size.

Microsoft Azure Upgrade Search resources, services, and docs (G+/I) vishwajit.p@art05@gen... DEFAULT DIRECTORY PROXY...

Home > Windows Virtual machine

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

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Bastion

Windows Admin Center

Networking

Settings

Disks

Extensions + applications

Operating system

Configuration

Advisor recommendations

Properties

Locks

Essentials

Resource group (456) : 456

Status : Running

Location : Central India

Subscription (Free Trial) : Free Trial

Subscription ID : 4a357868-1d8b-435c-b69f-a18b0ed1e7e2

Operating system : Windows (Windows Server 2022 Datacenter Azure Edition)

Size : Standard B1s (1 vcpu, 1 GiB memory)

Public IP address : 52.172.207.208

Virtual network/subnet : Windows-vnet/default

DNS name : Not configured

Health state : -

Time created : 8/7/2024, 4:43 AM UTC

Tags (edit) : Add tags

JSON View

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name : Windows

Operating system : Windows (Windows Server 2022 Datacenter Azure Edition)

VM generation : V2

VM architecture : x64

Agent status : Ready

Agent version : 2.7.41491.1131

Hibernation : Disabled

Host group : -

Networking

Public IP address : 52.172.207.208 (Network interface windows177)

Public IP address (IPv6) : -

Private IP address : 10.0.0.4

Private IP address (IPv6) : -

Virtual network/subnet : Windows-vnet/default

DNS name : Configure

Size

Size : Standard B1s













Home > Windows

Windows | Connect ...

Virtual machine

 Search

Settings

-  Disks
-  Extensions + applications
-  Operating system
-  Configuration
-  Advisor recommendations
-  Properties
-  Locks
- > Availability + scale
- > Security
 -  Identity
 -  Microsoft Defender for Cloud
- > Backup + disaster recovery
- > Operations
 -  Auto-shutdown
 -  Run command
 -  Updates

 Refresh  Troubleshoot  More Options  Feedback

 Connecting using
Public IP address | 52.172.207.208 

Admin username : Vaishnavi
Port (change) : 3389 [Check access](#) ⓘ
Just-in-time policy : Unsupported by plan ⓘ


Most common

 Local machine

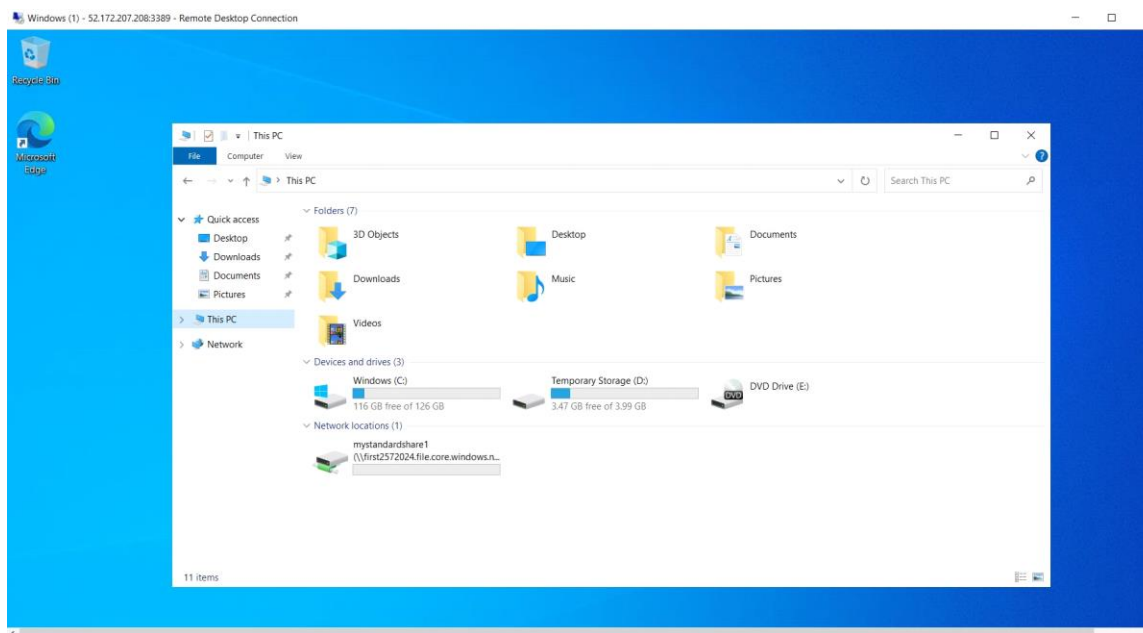
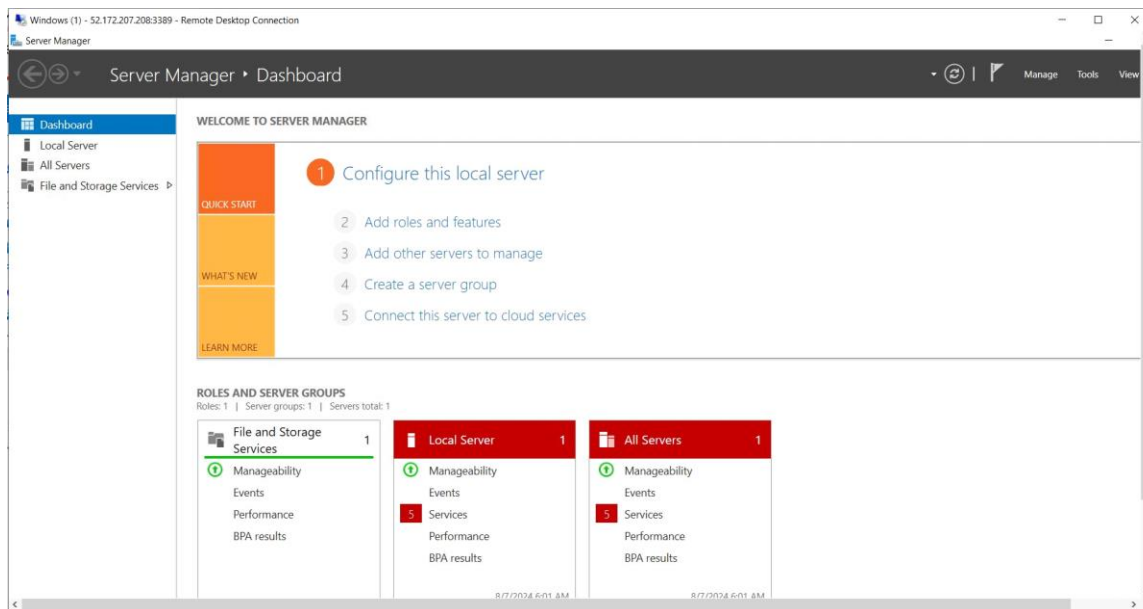
Native RDP

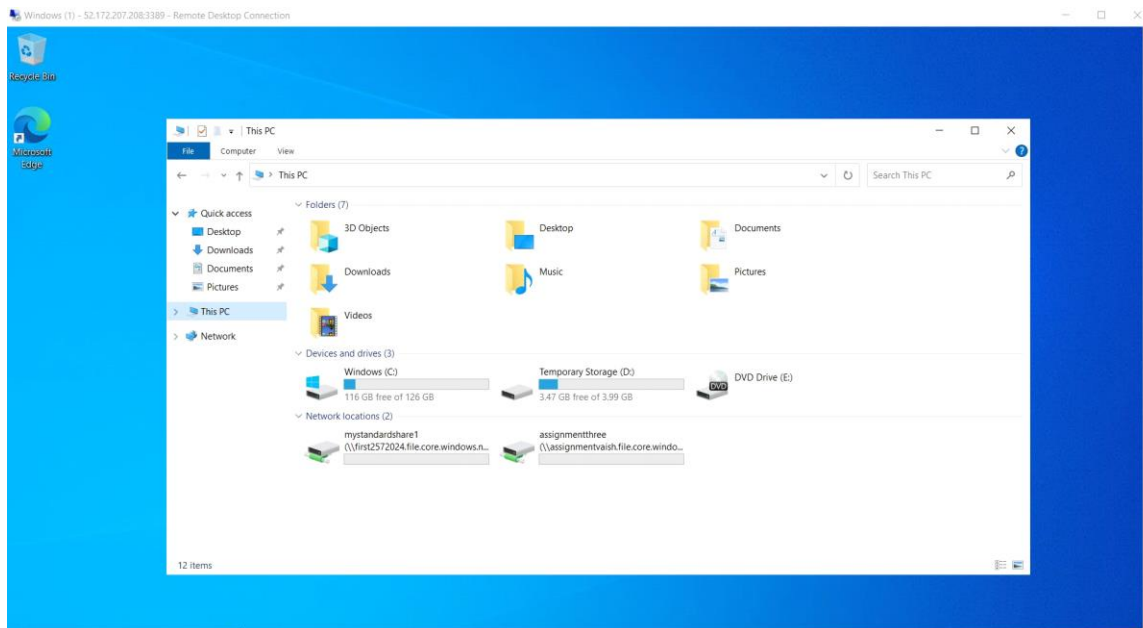
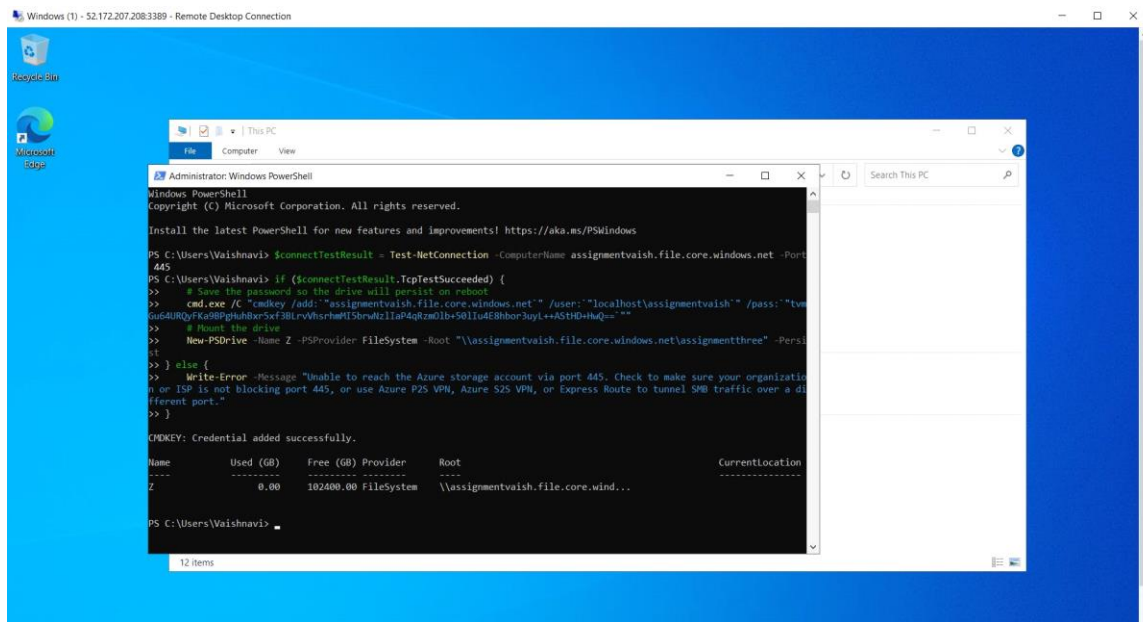
Connect via native RDP without any additional software needed. Recommended for testing only.

Public IP address (52.172.207.208)

[Select](#) [Download RDP file](#) 

 More ways to connect (4)





3. Mount the File Share on Linux

Create a virtual machine ...

 This subscription may not be eligible to deploy VMs of certain sizes in certain regions.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

Free Trial

Resource group *

456

Create new

Instance details

Virtual machine name *

Ubuntu

Region *

(Asia Pacific) Central India


Availability options

No infrastructure redundancy required


Security type

Standard

Image *

 Ubuntu Server 22.04 LTS - x64 Gen2 (free services eligible)

[See all images](#) | [Configure VM generation](#)

 This image is compatible with additional security features. [Click here to swap to the Trusted launch security type.](#)

Home > Virtual machines >

Create a virtual machine ...

i You are in the free trial period. Costs associated with this VM can be covered by any remaining credits on your subscription. [Learn more](#)

Size * **Standard_B1s - 1 vcpu, 1 GiB memory (₹680.20/month) (free services eligible)** **▼**
[See all sizes](#)

Enable Hibernation ☐

i Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernation to enable this feature. [Learn more](#)

Administrator account

Authentication type ☐ SSH public key ☒ Password

Username * **Vaishnavi** **✓**

Password * ********* **✓**

Confirm password * ********* **✓**

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * ☐ None

[< Previous](#) [Next : Disks >](#) [Review + create](#)

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * ☐ None ☒ Allow selected ports

Select inbound ports * **HTTP (80), HTTPS (443), SSH (22)** **▼**

i All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

[< Previous](#) [Next : Disks >](#) [Review + create](#)

Microsoft Azure

Upgrade

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

Home >

CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20240807114556 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j... Start time: 8/7/2024, 11:48:43 AM
Subscription: Free Trial Correlation ID: 31be7318-f5e3-42e7-b07d-3f9da6552a1c

Deployment details

Resource	Type	Status	Operation details
Ubuntu-ip	Microsoft.Network/publicIpAddresses	Created	Operation details
Ubuntu-nsg	Microsoft.Network/networkSecurityGroups	Created	Operation details

Give feedback
Tell us about your experience with deployment

Microsoft Defender for Cloud

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CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20240807114556 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j... Start time: 8/7/2024, 11:48:43 AM
Subscription: Free Trial Correlation ID: 31be7318-f5e3-42e7-b07d-3f9da6552a1c

Deployment details

Next steps

Setup auto-shutdown Recommended

Monitor VM health, performance and network dependencies Recommended

Run a script inside the virtual machine Recommended

Go to resource Create another VM

Give feedback
Tell us about your experience with deployment

Microsoft Azure | Upgrade

Search resources, services, and docs (G+V)

Home > Virtual machines > Ubuntu

Virtual machines

Default Directory (vaishnavgohar05@gmail.com)

+ Create | Switch to classic

Filter for any field...

Name ↑

Ubuntu

Overview | Activity log | Access control (IAM) | Tags | Diagnose and solve problems | Connect | Bastion | Networking | Settings | Disks | Extensions + applications | Operating system | Configuration | Advisor recommendations | Properties | Locks | Availability + scale

Ubuntu | Connect

Virtual machine

Search | Refresh | Troubleshoot | More Options | Feedback

Connecting using Public IP address | 20.192.19.143

Admin username: Vaishnavi

Port (change): 22 | Check access | Just-in-time policy: Unsupported by plan

Recommended: SSH using Azure CLI (Quickly connect in browser. Supports Microsoft Entra ID authentication. Private key not required. Public IP address (20.192.19.143))

Most common: Native SSH (No additional software connection. Best for Public IP address (20.192.19.143))

SSH using Azure CLI

Public IP address (20.192.19.143)

Select

More ways to connect (3)

SSH using Azure CLI

Connect from the Azure portal

Connect from your local machine

- Configure prerequisites for SSH using Azure CLI

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](#)
- Public IP address: 20.192.19.143: 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

Microsoft Azure | Upgrade

Search resources, services, and docs (G+V)

Home > Storage accounts > assignmentvaish | File shares >

assignmentthree

SMB File share

Search | Connect | Upload | Refresh | Add directory | Delete share | Change tier | Edit quota | Give feedback

Overview | Diagnose and solve problems | Access Control (IAM) | Browse | Operations

Enable Backup for file share "assignmentthree" to protect your data. [Learn more](#)

Essentials

Storage account	: assignmentvaish	Share URL
Resource group (move)	: 456	Redundancy
Location	: Central India	Configuration modified
Subscription (move)	: Free Trial	
Subscription ID	: 4a357868-1df8-435c-b69f-a18b0ed1e7e2	

Properties

Capabilities (2) | Tutorials

Connect

assignmentthree

Windows | Linux | macOS

Mount point: assignmentthree

To connect to this file share from a Linux computer, run this command:

Hide Script

```
sudo mkdir /mnt/assignmentthree
if [ -d "/etc/smbcredentials" ]; then
  sudo mkdir /etc/smbcredentials
fi
if [ -f "/etc/smbcredentials/assignmentvaish.cred" ]; then
```

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

```
sudo chmod 600 /etc/smbcredentials/assignmentvaish.cred
sudo bash -c 'echo "username=assignmentvaish" >> /etc/smbcredentials/assignmentvaish.cred'
sudo bash -c 'echo "password=vmcgu4tngy/Ka9Bp9u4h8r5xf3BLrVhsrhwt5brwzL1aP4qtzm0lb+561Iu4E8hbor3uyL+ASTHDHhQ==" >> /etc/smbcredentials/assignmentvaish.cred'
sudo chmod 600 /etc/smbcredentials/assignmentvaish.cred
sudo bash -c 'echo "//assignmentvaish.file.core.windows.net/assignmentthree /mnt/assignmentthree cifs nofail,credentials=/etc/smbcredentials/assignmentvaish.cred,dir_mode=0777,file_mode=0777,serverino,nosharesock,a
30
```

```
vaishnavigolhar05@gmail.com@ubuntu:~$ ^[[200~df -h
```

```
df: command not found
```

```
vaishnavigolhar05@gmail.com@ubuntu:~$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/root	29G	1.8G	28G	6%	/
tmpfs	442M	0	442M	0%	/dev/shm
tmpfs	177M	964K	176M	1%	/run
tmpfs	5.0M	0	5.0M	0%	/run/lock
efivarfs	128M	9.8K	128M	1%	/sys/firmware/efi/efivars
/dev/sda15	105M	6.1M	99M	6%	/boot/efi
/dev/sdb1	3.9G	32K	3.7G	1%	/mnt
tmpfs	89M	4.0K	89M	1%	/run/user/15223355
//assignmentvaish.file.core.windows.net/assignmentthree	100T	0	100T	0%	/mnt/assignmentthree

```
vaishnavigolhar05@gmail.com@ubuntu:~$
```

