

Q) Configure an azure storage account replication method should be LRS. And configure azure file share. And mount with Linux Virtual machine.

Create a subscription

Home >

Azure subscription 1

Subscription

Cancel subscription

Rename

Change directory

Transfer billing ownership

Feedback

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Security

Events

Cost Management

Billing

Invoices

External services

Successfully upgraded to Pay as you go. Your free credit is still available until the end of the free trial billing cycle. Usage over your free credit will be applied to your payment method.

Change service administrator functionality is no longer supported. [Learn more](#). For any other issues, contact support.

Tokenization is required to store card details due to a Reserve Bank of India directive. To tokenize your card details or allow automatic payments, add and [Learn more](#)

Essentials

Subscription ID

074f868b-5bb3-4653-ab03-e7e76170d3f9

Directory

Default Directory (rutikrehawargmail.onmicrosoft.com)

My role

Account admin

Offer

Subscription name

[Azure subscription 1](#)

Current billing period

9/18/2024-10/17/2024

Currency

INR

Status

Created resource group to use it.

Home > Resource groups >

Resource groups

Default Directory

Create

Group by none

You are viewing a new version of browse experience. Some features may be missing. [Click here to access the old experience.](#)

Name ↑

Devops

Showing 1 - 1 of 1. Display count: 10

Devops

Resource group

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Overview

Activity log

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Events

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Cost Management

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Help

Essentials

JSON View

Resources

Recommendations

Filter for any field...

Type equals all

Add filter

More (1)

Showing 0 to 0 of 0 records.

Show hidden types

No grouping

List view

Name ↑↓

Type ↑↓

Location ↑↓

Created storage account.

Home > Storage accounts >

## Create a storage account ...

Subscription \*

Azure subscription 1

Resource group \*

Devops

[Create new](#)

Instance details

Storage account name \* ⓘ

stormystor

Region \* ⓘ

(US) East US

[Deploy to an Azure Extended Zone](#)

Primary service ⓘ

Select a primary service

Performance \* ⓘ

☒ Standard: Recommended for most scenarios (general-purpose v2 account)

Previous

Next

Review + create

## Created lrs replication method while creating storage account

Home > Storage accounts >

## Create a storage account ...

Region \* ⓘ

Primary service ⓘ

Primary workload ⓘ

Performance \* ⓘ

Redundancy \* ⓘ

Locally-redundant storage (LRS)

**Locally-redundant storage (LRS):**  
Lowest-cost option with basic protection against server rack and drive failures. Recommended for non-critical scenarios.

**Geo-redundant storage (GRS):**  
Intermediate option with failover capabilities in a secondary region. Recommended for backup scenarios.

**Zone-redundant storage (ZRS):**  
Intermediate option with protection against datacenter-level failures. Recommended for high availability scenarios.

**Geo-zone-redundant storage (GZRS):**  
Optimal data protection solution that includes the offerings of both GRS and ZRS. Recommended for critical data scenarios.

Previous

Next

Review + create

## Created storage account with lrs as redundancy storage method.

## Created file share.

Home > stormystor | File shares >



Search

Connect Upload Refresh Add directory Delete share

## Overview

- Diagnose and solve problems
- Access Control (IAM)
- Browse
- Operations

Enable Backup for file share "fileshare1" to protect your data. [Learn more](#)

## Essentials

Storage account  
[stormystor](#)  
Resource group ([move](#))  
[Devops](#)  
Location  
East US  
Subscription ([move](#))  
[Azure subscription 1](#)  
Subscription ID  
074f868b-5bb3-4653-ab03-e7e76170d3f9

Creating one virtual machine to access it.

Home > Virtual machines >

## Create a virtual machine

Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.

Help me create a low cost VM Help me create a VM optimized for high availability Help me choose the right VM size for my workload

Virtual machine name \*

Region \*

Availability options

Zone options ☒ Self-selected zone  
Choose up to 3 availability zones, one VM per zone  
☐ Azure-selected zone (Preview)  
Let Azure assign the best zone for your needs

Estimated monthly cost


₹7,238.73 / month

[View cost details](#)

< Previous Next : Disks > Review + create

Created vm to access it.


[Home](#) >





## CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20241002230308


Deployment


✕ ⏪

Delete

Cancel

Redeploy

Download

Refresh


Overview

Inputs

Outputs

Template

Deployment is in progress



Deployment name: CreateVm-canonical.0001-com-ubuntu-...


Subscription: [Azure subscription 1](#)

Resource group: [Devops](#)

Deployment details


Resource	Type	Status
No results.		

Give feedback

 [Tell us about your experience with deployment](#)

Accessing vm creating

Home > CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20241002230308 | Overview > Vm1



### Vm1 | Connect

Virtual machine

✕ ⏪

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Connect

Bastion

Networking

Settings

Availability + scale

Security


Port (change)

22 [Check access](#) ⓘ


Just-in-time policy

Unsupported by plan ⓘ

Recommended



Local machine



Azure portal

SSH using Azure CLI

Quickly connect in browser. Supports Microsoft Entra ID authentication. Private key not required.

Public IP address (57.151.81.94)

Select

♥

Native SSH

Connect from your local machine (Windows)

3 Copy and execute SSH command

Provide a path to your SSH private key file on your local machine.

Can't find your private key? [Reset your SSH private key](#)

SSH to VM with specified private key.

Other Information


Using a Linux subsystem like WSL or Ubuntu on Terminal?

Copy your private key path to the Linux subsystem and ensure it has the correct read-only access.

Move your private key to the Linux subsystem. Use chmod to assign read-only access, then SSH.

Close

Troubleshooting

 Give feedback

```
* Support:      https://ubuntu.com/pro

System information as of Wed Oct  2 17:39:58 UTC 2024

System load:  0.29           Processes:            134
Usage of /:   5.2% of 28.89GB Users logged in:      0
Memory usage: 4%           IPv4 address for eth0: 10.0.0.4
Swap usage:   0%
```

Expanded Security Maintenance for Applications is not enabled.

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 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@Vm1:~$ sudo su -
root@Vm1:~#
```

Installing blobfuse package which is required.

```
Get:15 http://azure.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1130 kB]
Get:16 http://azure.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [264 kB]
Get:17 http://azure.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [26.3 kB]
Get:18 http://azure.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [43.3 kB]
Get:19 http://azure.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [10.8 kB]
Get:20 http://azure.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [444 B]
Get:21 http://azure.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [67.7 kB]
Get:22 http://azure.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.1 kB]
Get:23 http://azure.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:24 http://azure.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:25 http://azure.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [28.8 kB]
Get:26 http://azure.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:27 http://azure.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [672 B]
Get:28 http://azure.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:29 http://azure.archive.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1848 kB]
Get:30 http://azure.archive.ubuntu.com/ubuntu jammy-security/main Translation-en [299 kB]
Get:31 http://azure.archive.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [13.3 kB]
Get:32 http://azure.archive.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [909 kB]
Get:33 http://azure.archive.ubuntu.com/ubuntu jammy-security/universe Translation-en [179 kB]
Get:34 http://azure.archive.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [19.4 kB]
Get:35 http://azure.archive.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.2 kB]
Get:36 http://azure.archive.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7588 B]
Get:37 http://azure.archive.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [228 B]
Get:38 https://packages.microsoft.com/ubuntu/20.04/prod focal/main arm64 Packages [66.6 kB]
Get:39 https://packages.microsoft.com/ubuntu/20.04/prod focal/main all Packages [2942 B]
Get:40 https://packages.microsoft.com/ubuntu/20.04/prod focal/main amd64 Packages [315 kB]
Get:41 https://packages.microsoft.com/ubuntu/20.04/prod focal/main armhf Packages [23.1 kB]
Fetched 28.5 MB in 5s (6335 kB/s)
Reading package lists... Done
root@Vm1:~# sudo apt-get install blobfuse
```

Previously there were no mounting



Changing permission of created file to read write access to only owner.

```
sr0      11:0      1 628K  0 rom
root@Vm1:~# sudo touch fuse_connection.cfg
root@Vm1:~# vim fuse_connection.cfg
root@Vm1:~# chmod 600 fuse_connection.cfg |
```

Installing package libfuse 2

```
root@Vm1:~# apt install libfuse2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  libfuse2
0 upgraded, 1 newly installed, 0 to remove and 7 not upgraded.
Need to get 90.3 kB of archives.
After this operation, 330 kB of additional disk space will be used.
Get:1 http://azure.archive.ubuntu.com/ubuntu jammy/universe amd64 libfuse2 amd64 2.9.9-5ubuntu3 [90.3 kB]
```

Installed packages and mounted using below command.

```
root@Vm1:~# sudo apt update
sudo apt install cifs-utils
Hit:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease
Hit:5 https://packages.microsoft.com/ubuntu/20.04/prod focal InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
7 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
cifs-utils is already the newest version (2:6.14-1ubuntu0.1).
0 upgraded, 0 newly installed, 0 to remove and 7 not upgraded.
root@Vm1:~# sudo mount -t cifs //stormystor.file.core.windows.net/fileshare1 mydata -o vers=3.0,username=stormystor,password=+HLccCMcZwo701lxB6DFJyWn1z15xg1g8M78yx4Q2K0YtQzjk6jNDZRNj+m6b/nXg8VbtHkFIWp+ASt6Cb7xw==,dir_mode=0777,file_mode=0777,serverino
```

Mounted successfully.

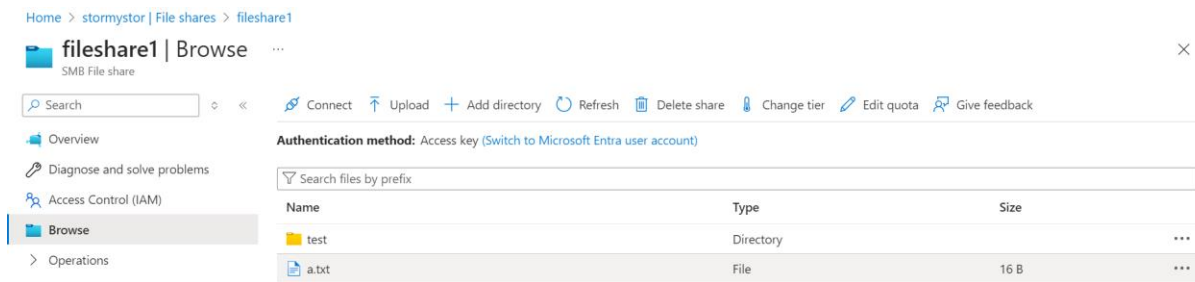
```
root@Vm1:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root        29G   1.8G   28G   7% /
tmpfs            3.9G     0   3.9G   0% /dev/shm
tmpfs            1.6G  996K   1.6G   1% /run
tmpfs            5.0M     0   5.0M   0% /run/lock
efivarfs         128K   37K   87K  30% /sys/firmware/efi/efivars
/dev/sda15       105M   6.1M   99M   6% /boot/efi
/dev/sdb1        16G    40K   15G   1% /mnt
tmpfs            788M   4.0K   788M   1% /run/user/1000
//stormystor.file.core.windows.net/fileshare1 5.0T     0   5.0T   0% /root/mydata
```

Created a.txt file

```
//stormystor.file.core.windows.net/fileshare1 5.0T     0
root@Vm1:~# cd mydata
root@Vm1:~/mydata# ls
root@Vm1:~/mydata# touch a.txt
root@Vm1:~/mydata# ls
a.txt
root@Vm1:~/mydata#
root@Vm1:~/mydata# cd ..
root@Vm1:~# |
```

Lets check if it is there in azure storage account.

It is there on the account



Same what will be created will be visible on vm.

```
efivarfs 128K 37K
/dev/sda15 105M 6.1M
/dev/sdb1 16G 40K
tmpfs 788M 4.0K
//stormystor.file.core.windows.net/fileshare1 5.0T 64K
root@Vm1:~/mydata# ls
a.txt test
root@Vm1:~/mydata# |
```

Hence the mount is successful.



Q2) Create a disc volume and attach it to vm.

Creating disk volume.

[All services](#) > [Disks](#) >

## Create a managed disk ...

Resource group \* ⓘ

Devops 

▼

[Create new](#)

Disk details

Disk name \* ⓘ

custom-disk 

✓

Region \* ⓘ

(US) East US 

▼

Availability zone

Zone 1 

▼

Source type ⓘ

None 

▼




Size \* ⓘ

1024 GiB


Premium SSD LRS






[Change size](#)

[All services](#) > [Microsoft.ManagedDisk-20241002234300 | Overview](#) >

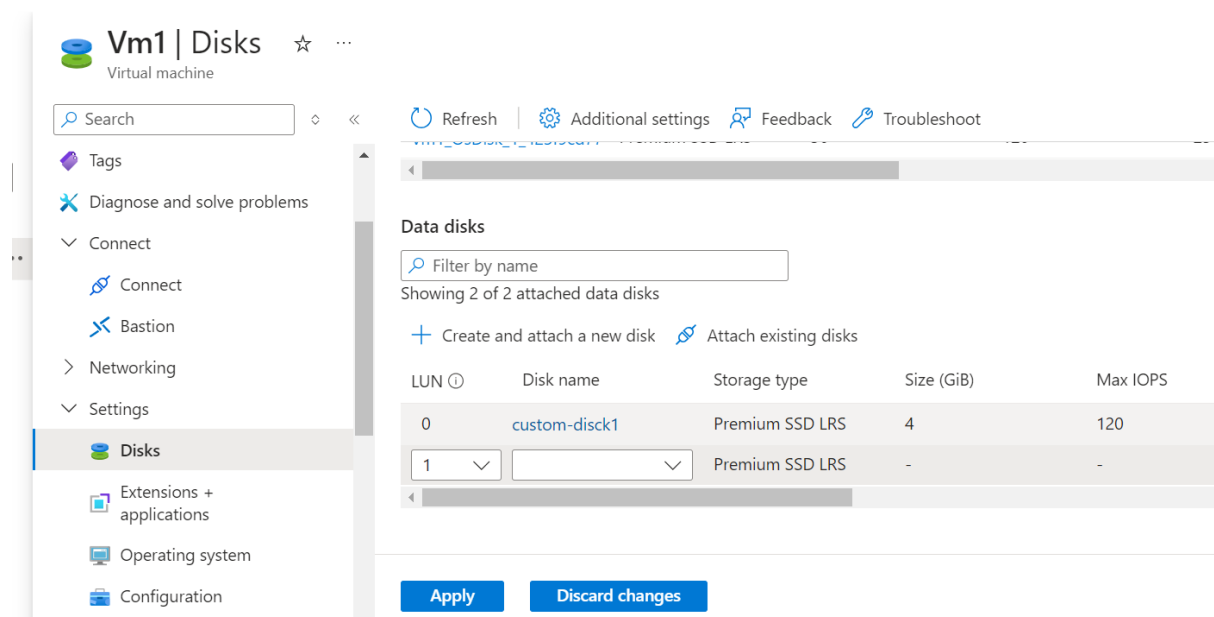
 **custom-disk**   ...

 << [+ Create VM](#) [+ Create VM image version](#) [+ Create snapshot](#)  [Delete](#) [Refresh](#) [Give feedback](#)

**Overview**  Essentials

 Activity log	Resource group <a href="#">(move)</a>	Disk size
 Access control (IAM)	<a href="#">Devops</a> 	4 GiB
 Tags	Disk state	Storage type
 Diagnose and solve problems	Unattached	Premium SSD LRS
> Settings	Last ownership update time	Managed by
> Monitoring	-	-
> Automation	Location	Operating system
> Help	East US	-
	Subscription <a href="#">(move)</a>	Max shares
	<a href="#">Azure subscription 1</a>	0
	Subscription ID	Availability zone
	074f868b-5bb3-4653-ab03-e7e76170d3f9	1
	Time created	Performance tier

Go to vm setting and attach disk to vm



Attached disk is there .

```
root@Vm1:~# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0        7:0    0   64M  1 loop /snap/core20/2379
loop1        7:1    0   87M  1 loop /snap/lxd/29351
loop2        7:2    0 38.8M  1 loop /snap/snapd/21759
sda          8:0    0   30G   0 disk
├─sda1       8:1    0 29.9G   0 part /
├─sda14      8:14   0    4M   0 part
└─sda15      8:15   0 106M   0 part /boot/efi
sdb          8:16   0   16G   0 disk
└─sdb1       8:17   0   16G   0 part /mnt
sdc          8:32   0    4G   0 disk
sr0         11:0    1 628K   0 rom
```

It is not mounted yet.

```

root@Vm1:~# df -h

```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/root	29G	1.8G	28G	7%	/
tmpfs	3.9G	0	3.9G	0%	/dev/shm
tmpfs	1.6G	1000K	1.6G	1%	/run
tmpfs	5.0M	0	5.0M	0%	/run/lock
efivarfs	128K	37K	87K	30%	/sys/firmware/efi/efivars
/dev/sda15	105M	6.1M	99M	6%	/boot/efi
/dev/sdb1	16G	40K	15G	1%	/mnt
tmpfs	788M	4.0K	788M	1%	/run/user/1000
//stormstor.file.core.windows.net/fileshare1	5.0T	64K	5.0T	1%	/root/mydata

```

root@Vm1:~#

```

Created partiion to mount the disk on the existing disc. And made file system for the disc to be attached. As file system must be specified before attachin the disc

```

root@Vm1:~# sudo mkfs.ext4 /dev/sdc
mke2fs 1.46.5 (30-Dec-2021)
Discarding device blocks: done
Creating filesystem with 1048576 4k blocks and 262144 inodes
Filesystem UUID: bfc104ba-d0a9-4d6b-b52a-8b67db8b2392
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912, 819200, 884736

Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done

```

```

root@Vm1:~# sudo mkdir /mnt/mydisk
root@Vm1:~# sudo mount /dev/sdc /mnt/mydisk
root@Vm1:~# df -h

```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/root	29G	1.8G	28G	7%	/
tmpfs	3.9G	0	3.9G	0%	/dev/shm
tmpfs	1.6G	1000K	1.6G	1%	/run
tmpfs	5.0M	0	5.0M	0%	/run/lock
efivarfs	128K	37K	87K	30%	/sys/firmware/efi/efivars
/dev/sda15	105M	6.1M	99M	6%	/boot/efi
/dev/sdb1	16G	44K	15G	1%	/mnt
tmpfs	788M	4.0K	788M	1%	/run/user/1000
//stormstor.file.core.windows.net/fileshare1	5.0T	64K	5.0T	1%	/root/mydata

It is mounted to the created directory mnt/mydisk

```

root@Vm1:~# lsblk

```

NAME	MAJ:MIN	RM	SIZE	RO	TYPE	MOUNTPOINTS
loop0	7:0	0	64M	1	loop	/snap/core20/2379
loop1	7:1	0	87M	1	loop	/snap/lxd/29351
loop2	7:2	0	38.8M	1	loop	/snap/snapd/21759
sda	8:0	0	30G	0	disk	
└─sda1	8:1	0	29.9G	0	part	/
└─sda14	8:14	0	4M	0	part	
└─sda15	8:15	0	106M	0	part	/boot/efi
sdb	8:16	0	16G	0	disk	
└─sdb1	8:17	0	16G	0	part	/mnt
sdc	8:32	0	4G	0	disk	/mnt/mydisk
sr0	11:0	1	628K	0	rom	

```

root@Vm1:~#

```

