

Azure FileShare Mount Issue Bad Option_Storage

Last updated by | Kevin Gregoire | Nov 3, 2022 at 9:18 AM PDT

Tags

[cw.Azure-Files-All-Topics](#)[cw.TSG](#)[cw.Reviewed-10-2022](#)

Contents

- [Symptoms](#)
- [Cause](#)
- [Resolution](#)
- [Need additional help or have feedback?](#)

Symptoms

You receive "mount bad option" when you try to mount an Azure Files share on Linux.

This issue specially been seen on Red Hat Enterprise Linux release 8.2 (Ootpa)

```
[root@TSG-VM ~]# sudo mount -t cifs //storagetg1.file.core.windows.net/fileshare1 /mnt/fileshare1 -o credenti
mount: /mnt/fileshare1: bad option; for several filesystems (e.g. nfs, cifs) you might need a /sbin/mount.<typ
```

```
[root@TSG-VM ~]# mount -av
/
: ignored
/boot
: already mounted
/boot/efi
: already mounted
/home
: already mounted
/tmp
: already mounted
/usr
: already mounted
/var
: already mounted
/mnt
: already mounted
mount: /mnt/fileshare1: bad option; for several filesystems (e.g. nfs, cifs) you might need a /sbin/mount.<typ
[root@TSG-VM ~]#
```

Error while mounting the cifs azure file share : "bad option; for several filesystems (e.g. nfs, cifs) you might need a /sbin/mount.<type> helper program."

Cause

Known issue in RHEL 8.2 as /sbin/mount.cifs binary file is not present because cifs-utils rpm package is not installed by default.

This can be verified by navigating to the /sbin/mount.cifs path using the below command :

```
[root@TSG-VM ~]# ls -l /sbin/mount.cifs
ls: cannot access '/sbin/mount.cifs': No such file or directory
[root@TSG-VM ~]#
```

This result would be : '/sbin/mount.cifs': No such file or directory

Resolution

Need to check which rpm package provides the binary : '/sbin/mount.cifs'

```
[root@TSG-VM ~]# yum whatprovides /sbin/mount.cifs
Last metadata expiration check: 0:10:17 ago on Sun 23 Oct 2022 01:51:03 PM UTC.
cifs-utils-6.8-2.el8.x86_64 : Utilities for mounting and managing CIFS mounts
Repo                        : rhel-8-for-x86_64-baseos-eus-rhui-rpms
Matched from:
Filename                   : /usr/sbin/mount.cifs

cifs-utils-6.8-3.el8.x86_64 : Utilities for mounting and managing CIFS mounts
Repo                        : rhel-8-for-x86_64-baseos-eus-rhui-rpms
Matched from:
Filename                   : /usr/sbin/mount.cifs
```

Install rpm package cifs-utils using the below command :

```
yum install cifs-utils
```

```
Last metadata expiration check: 0:15:53 ago on Sun 23 Oct 2022 01:51:03 PM UTC.
```

```
Dependencies resolved.
```

Package	Architecture	Version	Repository
Installing:			
cifs-utils	x86_64	6.8-3.el8	rhel-8-for-x86_64-b
Installing dependencies:			
keyutils	x86_64	1.5.10-6.el8	rhel-8-for-x86_64-b

```
Transaction Summary
```

```
Install 2 Packages
```

```
Total download size: 159 k
```

```
Installed size: 306 k
```

```
Is this ok [y/N]: y
```

```
Downloading Packages:
```

```
(1/2): keyutils-1.5.10-6.el8.x86_64.rpm
```

```
(2/2): cifs-utils-6.8-3.el8.x86_64.rpm
```

```
Total
```

```
Running transaction check
```

```
Transaction check succeeded.
```

```
Running transaction test
```

```
Transaction test succeeded.
```

```
Running transaction
```

```
Preparing :
```

```
Installing : keyutils-1.5.10-6.el8.x86_64
```

```
Installing : cifs-utils-6.8-3.el8.x86_64
```

```
Running scriptlet: cifs-utils-6.8-3.el8.x86_64
```

```
Verifying : keyutils-1.5.10-6.el8.x86_64
```

```
Verifying : cifs-utils-6.8-3.el8.x86_64
```

```
Installed products updated.
```

```
Installed:
```

```
cifs-utils-6.8-3.el8.x86_64
```

```
keyutils-1.5.10-6.el8.x86_64
```

```
Complete!
```

```
[root@TSG-VM ~]#
```

Once the above rpm is installed we can verify if the binary file is present.

```
[root@TSG-VM ~]# ls -l /sbin/mount.cifs
```

```
-rwxr-xr-x. 1 root root 46792 Dec 18 2019 /sbin/mount.cifs
```

```
[root@TSG-VM ~]#
```

Post verifying the binary file , you will be able to successfully mount the file share.

```
[root@TSG-VM ~]# sudo mount -t cifs //storagetsg1.file.core.windows.net/fileshare1 /mnt/fileshare1 -o credenti
[root@TSG-VM ~]# df -hT /mnt/fileshare1
Filesystem                                     Type  Size  Used Avail Use% Mounted on
//storagetsg1.file.core.windows.net/fileshare1 cifs  5.0T      0  5.0T   0% /mnt/fileshare1
[root@TSG-VM ~]#

[root@TSG-VM ~]# umount /mnt/fileshare1
[root@TSG-VM ~]#
[root@TSG-VM ~]#
[root@TSG-VM ~]# mount -av
/
: ignored
/boot
: already mounted
/boot/efi
: already mounted
/home
: already mounted
/tmp
: already mounted
/usr
: already mounted
/var
: already mounted
/mnt
: already mounted
mount.cifs kernel mount options: ip=20.60.7.136,unc=\\storagetsg1.file.core.windows.net\fileshare1,dir_mode=07
/mnt/fileshare1
: successfully mounted
[root@TSG-VM ~]#
```



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