How to Prepare External USB Storage for Log File Storage

https://campus.barracuda.com/doc/50659608/

You must prepare the USB storage device to be able to use it when cycling your log files. During initialization, the USB device is wiped, and the device label is changed. Only prepared USB storage devices can be used. If multiple prepared USB storage devices are connected, the first device in the list is mounted and used.

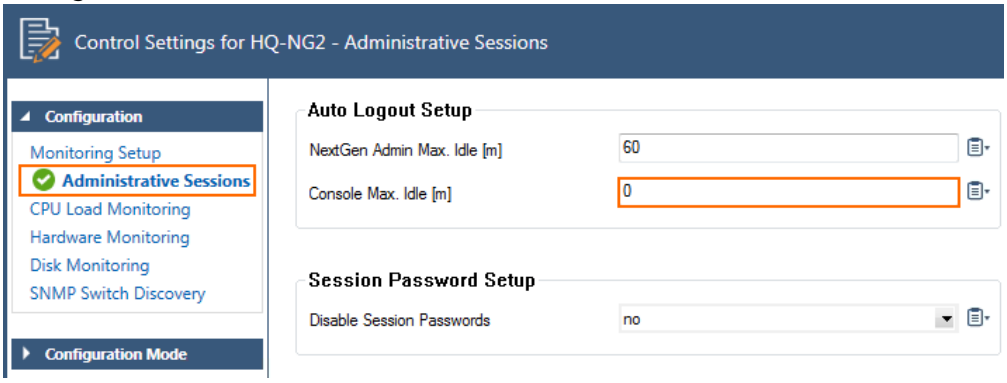
Limitations and Compatibility

Use USB 2.0 compatible external USB storage devices. This feature has been tested and is known to work with the following external USB storage devices:

- Western Digital, WD Elements 4 TB, WDBWLG0040HBK
- Maxtor, D3 Station 4 TB, HX-D401TDB/GM

Before you begin

- Connect the USB storage device to a free USB port on your firewall.
- To avoid the SSH sessions from timing out when formatting large external storage devices, go to **Infrastructure Services > Control** and in the **Administrative Sessions** set **Console Max Idle** to `0` for the duration of the configuration. Reset the settings to 15 after external log storage is enabled.



Step 1. Prepare USB storage

1. Log in to your firewall or to the box level of the Control Center with SSH.
2. Enter `prepare_cudastorage`.

```
[root@F101:/mnt/cudastorage]# prepare_cudastorage
Searching for removable disks to use as external log file storage...[ DONE ]

Detected the following removable disks:

0) /dev/sdb

Enter the number matching the USB storage device [0 or q for quit]
```

3. Enter the number for the device you want to prepare.

```
Enter the number matching the USB storage device [0 or q for quit]
Unmounting external storage (/dev/sdb)...[ DONE ]

 Warning!
 All data on /dev/sdb will be lost!
 Continue? (y/[n])
```

4. Enter **y** to wipe the device and prepare it for log file storage.
   All existing data on the device is destroyed!

```
 Warning!
 All data on /dev/sdc will be lost!
 Continue? (y/[n])

Removing master boot record...[ DONE ]
Creating ext3 filesystem...
mke2fs 1.41.14 (22-Dec-2010)
Filesystem label=CUDASTORAGE
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
247008 inodes, 986624 blocks
0 blocks (0.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=1010827264
31 block groups
32768 blocks per group, 32768 fragments per group
7968 inodes per group
Superblock backups stored on blocks:
        32768, 98304, 163840, 229376, 294912, 819200, 884736

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

This filesystem will be automatically checked every 36 mounts or
180 days, whichever comes first.  Use tune2fs -c or -i to override.
[ DONE ]
Deactivating filesystem check...[ DONE ]
[2016-05-16 09:09 CEST] [-root shell-] [-Barracuda Networks-]
[root@F101:/mnt/cudastorage]#
```

Step 2. Enable external log file storage

1. Go to **CONFIGURATION > Configuration Tree > Box > Advanced Configuration > Log**

Cycling.
2. Click **Lock**.
3. From the **External Log File Storage** list, select **yes**.



4. Click **Send Changes** and **Activate**.

Next step

Configure log file cycling. You can now use the **move to external storage** action to rotate log files to the external storage device.

For more information, see Log File Handling.

Viewing log files on external storage

To view log files stored on the external storage device, go to **LOGS** and select the external storage from the **Range** list.

Figures

1. external_log_storage_control_timeout.png
2. prep_usb_storage_01.png
3. prep_usb_storage_02.png
4. prep_usb_storage_03.png
5. prep_usb_storage_04.png

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