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Discussion Board 10

DB10: File Systems

CS340_OperatingSystems

Date: 9/5/2022

Part 1 (Due Friday)

With a 100-word paragraph, using Linux commands, describe how you would make a file system in a partition you just created.

Part 2 (Due Sunday)

Respond to at least two of your classmates by critiquing their analysis.

How a Discussion Forum works: To post on the Discussion Forum, click the name of the forum then click on Create Thread. Type a subject "Discussion 10 - Your first name and last name" and a message. Then Submit your post.

Videos:

- 1. https://youtu.be/V9uejS43cjo
- 2. Partitioning 101
- 3. Linux Demo: Creating a File System
- 4. The Linux File System for humans
- 5. The Linux File System Explained.
- 1. The first thing to do is to decide what kind of filesystem is going to be created.
 - Here I've created an extended filesystem version 4.

```
mkfs.ext4 /dev/sda1
```

2. The next thing to do is to mount the filesystem in your OS.

```
mkdir /mnt/mnt_sda1
ls /mnt_sda1
mount -t ext4 /dev/sda1
df -h
```

3. Next edit the the /etc/fstab file to include your mount information

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UUID=fe9be78a-30e6-4c16-b703-1825073c9e83 /mnt/mnt_sda1/ ext4 defaults 0 0

4. Then you umount it.

```
umount /mnt/mnt_sda1/
mount -a
df -h
```

5. Check mount location

```
mount | grep ^/dev/sd
```

References

Kulkarni, K. V. (2019, April 1). How to create a filesystem on a linux partition or logical volume. Opensource.com. Retrieved September 5, 2022, from https://opensource.com/article/19/4/create-filesystem-linux-partition