

Lesson 3. Homework Assignment

1. Pseudo devices

- a. Where in a Linux system will you look for device files? –
 - i. `/dev`
- b. What pseudo device is generates zeroes
 - i. `/dev/zero`
- c. What pseudo device is a blackhole
 - i. `/dev/null`
- d. What devices are generate random characters
 - i. `/dev/random`

2. Hardware Devices

- a. What device is usually carrying a root filesystem?
 - i. `/root`
- b. You already have a root volume and one data volume attached, and you just attached one more volume to the system. What device name this volume will most likely have?
 - i. `/dev/xvda` or `/dev/xvdf /data`

3. Filesystem

- a. What would be a linux command for creating xfs filesystem on a attached device
 - i. `Mkfs.xfs/dev/`

4. Hidden files

- a. Why hidden files exists
 - i. These files are necessary for the operation system and keeping them hidden will protect them from accidental deletion
- b. How to list all hidden files in Home directory
 - i. `Ls -a/home/`

5. Linux user data

- a. You have a task to write a script that will archive all users data on a Linux host. Where will you be looking for a list of folders to archive?
 - i. `/usr .bash_logout`

6. Temporary and virtual folders.

- a. You have a task to write a script that will archive/backup all data on a Linux host. What folders from the 1st level of the root filesystem are you going to add to an exclusion list?
 - i. `/dev/tempfs/archive/backup`

Optional:

7. Practice assignment

- a. Create VM in GCP. Use a CentOS7 image with additional volume.
- b. Connect to the host with ssh
- c. Create single primary partition on the non-root volume
- d. Format the partition to xfs
- e. Create folder `/mount/mydata``
- f. Mount the partition to `/mount/mydata`` folder
- g. Check linux disks layout with ``dh -h``
- h. Update fstab file to have it automounted

8. Permissions. Please provide exact linux command that will do requested permission on `/tmp/mytestfile``

- a. Set read only for all users
 - i. `Chmod 644 /tmp/mytestfile` //owner can Read and Write, others can Read
- b. Set read, write and execute permission for file owner only
 - i. `Chmod 600 /tmp/mytestfile` //Only Owner can Read and Write
- c. Revoke only execute permission
 - i. `Chmod -wx /tmp/mytestfile`
- d. Revoke write permission for group
- e. `Chmod 750 /tmp/mytestfile`

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