IT 4100: File Systems

System Install 02

Due according to date on Canvas

Assignment

You need to create 1 new linux systems USING physical equipment alloted to you. I should have <u>assigned</u> you at least 1 machines that support removable of disks. For this assignment, you should make sure that your machine only has one (1) terabyte drive installed (take the disk out and look at it). If your machine has other drive bays that are full, simply pull them out (don't pull them out all the way, we will use them in a later assignment).

To install an OS on a physical machine, you must first create a bootable flash drive. There are many programs that can help you with this (unetbootin, gtk-usb-creator, <u>rufus</u>). There is one computer in the lab that you can gain administrator access with the credentials (it4100/partition).

You should configure your filesystem as follows (during the install):

- /home (20G, ext4)
- / (10G, ext4)
- /var (30G, ext4)
- /usr (30G, ext4)
- /tmp (10G, ext4)
- /usr/local (50G, ext4)
- swap (10G)
- Remaining should be left as free space

Install ubuntu-server on the machine.

Requirements

- Configure each machine to be graded.
- Submit the text file to the course submissions.
- Check the grading report and fix any problems.

Details

- Pay careful attention to network settings. Check your notes from class. Some network settings errors will appear to work now, but will cause errors later in the semester.
- Install the `openssh-server` package. This is necessary for remote access by you and the grader.
- Follow the instructions for authorizing the grader to access each system.

Authorizing the Grader

On each system, complete these steps, as `root`.

```
wget http://cit.dixie.edu/it/3100/sources/install_key.bash
chmod +x ./install_key.bash
./install_key.bash
rm ./install_key.bash
apt-get install openssh-server
```

Submission File Format

The submission file is a UNIX text file, and must have this format, *exactly*!

The file must be named `system_install_info.txt`.

```
ip: ip_address_of_one_system
```

For example, it may look like this:

```
ip: 144.38.214.2
```

Submission and Passoff

- Use the [Submisions link](#) at the top of the page to submit your text file with your host information in it.
- Check back at the submissions site for feedback on the completeness of your work. Fix anything that's wrong. Repeat.