

Lab 2: Virtual Machines

Microservices and Cloud Computing - CSC 5201 301

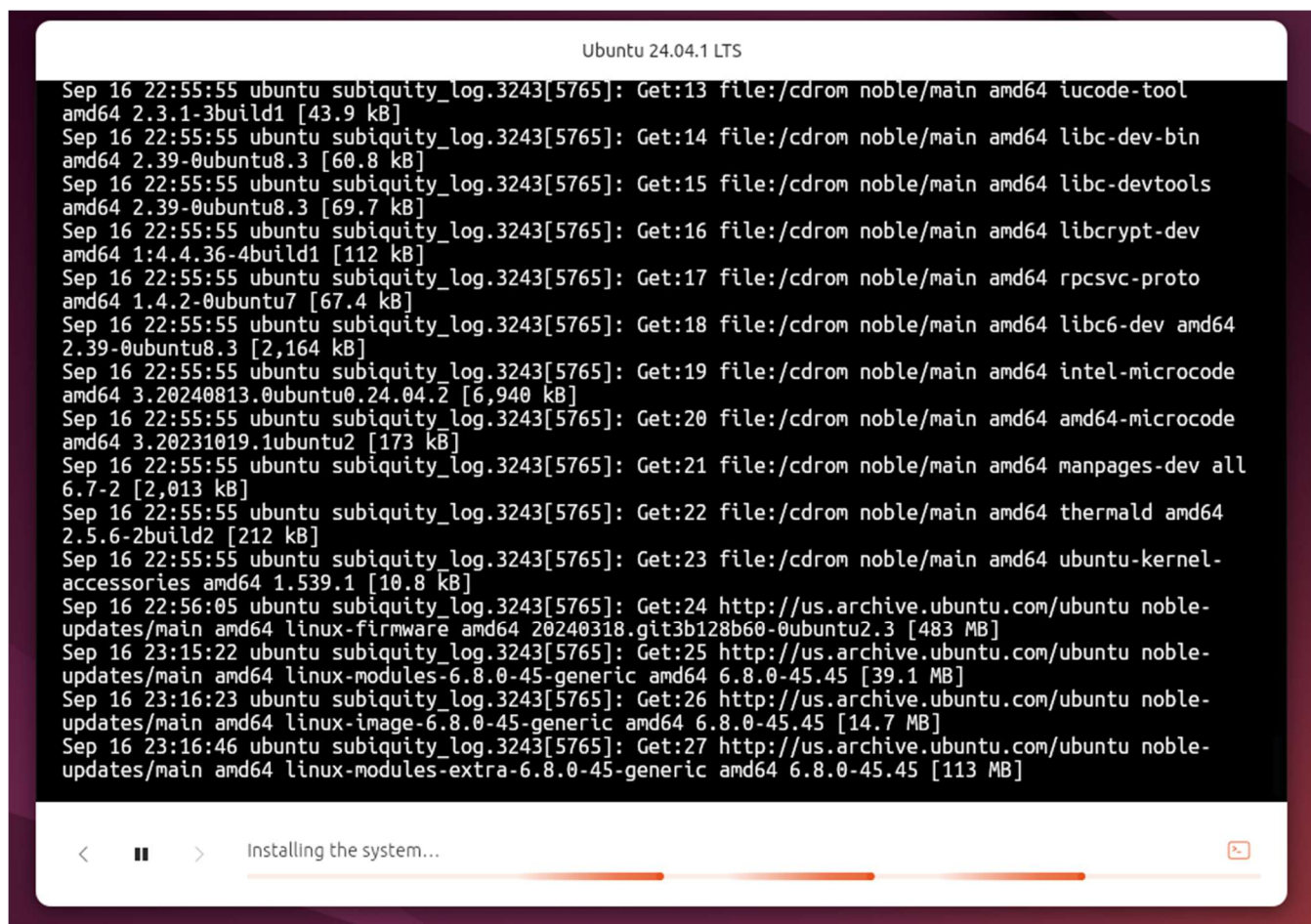
Hudson Arney

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Why isn't this (Erasing disk to install Ubuntu) scary?

I think the main reason this is not scary is because the disk is currently empty/doesn't have any useful information since we are just setting up. We are also installing everything that is important, new to it, so erasing any old data is less important.

Complete a beginners tutorial. Especially for using the command line. Take a screenshot. Ubuntu/Linux is popular for using containers.

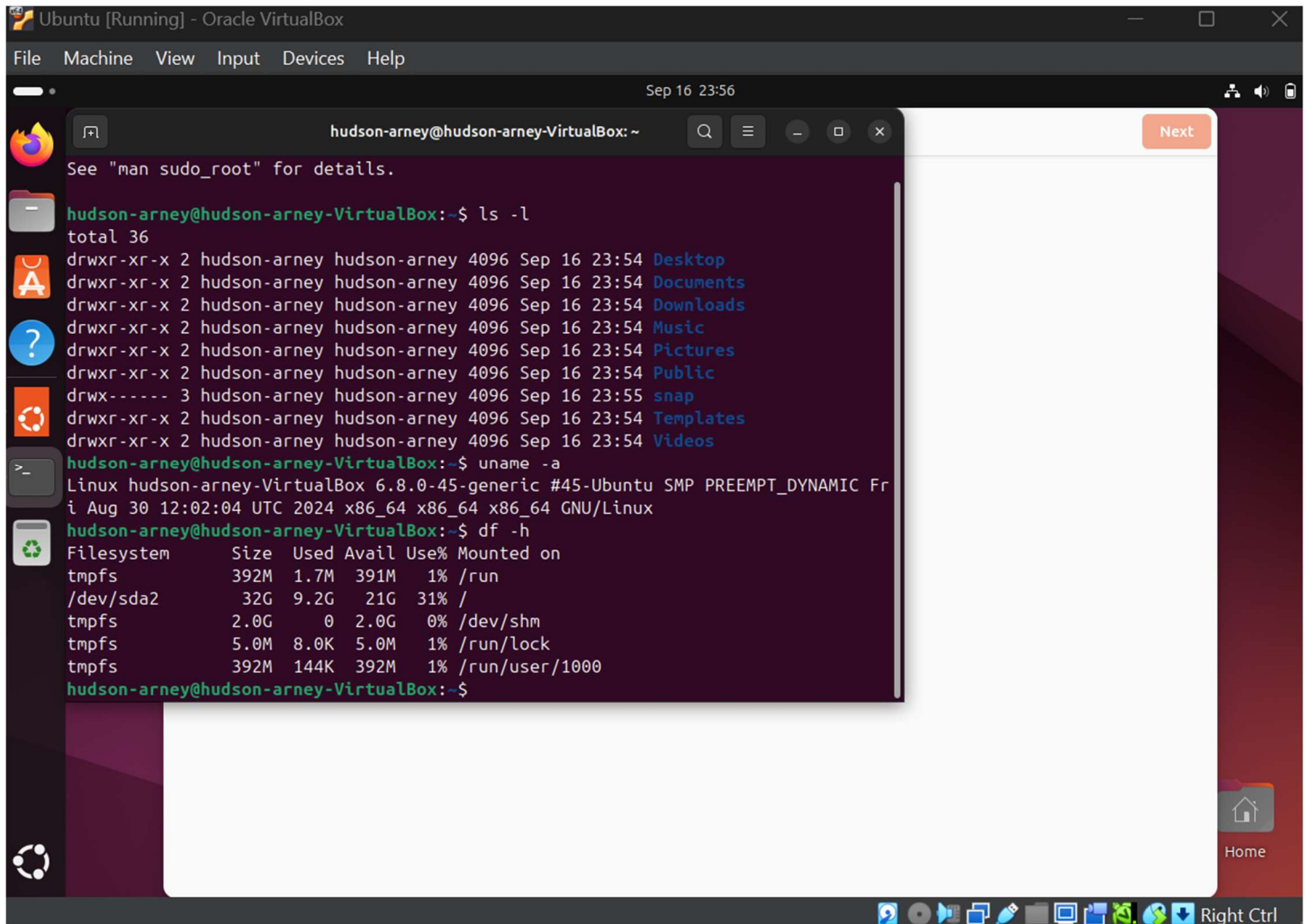


```
Ubuntu 24.04.1 LTS
Sep 16 22:55:55 ubuntu subiquity_log.3243[5765]: Get:13 file:/cdrom/noble/main amd64 iucode-tool
amd64 2.3.1-3build1 [43.9 kB]
Sep 16 22:55:55 ubuntu subiquity_log.3243[5765]: Get:14 file:/cdrom/noble/main amd64 libc-dev-bin
amd64 2.39-0ubuntu8.3 [60.8 kB]
Sep 16 22:55:55 ubuntu subiquity_log.3243[5765]: Get:15 file:/cdrom/noble/main amd64 libc-devtools
amd64 2.39-0ubuntu8.3 [69.7 kB]
Sep 16 22:55:55 ubuntu subiquity_log.3243[5765]: Get:16 file:/cdrom/noble/main amd64 libcrypt-dev
amd64 1:4.4.36-4build1 [112 kB]
Sep 16 22:55:55 ubuntu subiquity_log.3243[5765]: Get:17 file:/cdrom/noble/main amd64 rpcsvc-proto
amd64 1.4.2-0ubuntu7 [67.4 kB]
Sep 16 22:55:55 ubuntu subiquity_log.3243[5765]: Get:18 file:/cdrom/noble/main amd64 libc6-dev amd64
2.39-0ubuntu8.3 [2,164 kB]
Sep 16 22:55:55 ubuntu subiquity_log.3243[5765]: Get:19 file:/cdrom/noble/main amd64 intel-microcode
amd64 3.20240813.0ubuntu0.24.04.2 [6,940 kB]
Sep 16 22:55:55 ubuntu subiquity_log.3243[5765]: Get:20 file:/cdrom/noble/main amd64 amd64-microcode
amd64 3.20231019.1ubuntu2 [173 kB]
Sep 16 22:55:55 ubuntu subiquity_log.3243[5765]: Get:21 file:/cdrom/noble/main amd64 manpages-dev all
6.7-2 [2,013 kB]
Sep 16 22:55:55 ubuntu subiquity_log.3243[5765]: Get:22 file:/cdrom/noble/main amd64 thermald amd64
2.5.6-2build2 [212 kB]
Sep 16 22:55:55 ubuntu subiquity_log.3243[5765]: Get:23 file:/cdrom/noble/main amd64 ubuntu-kernel-
accessories amd64 1.539.1 [10.8 kB]
Sep 16 22:56:05 ubuntu subiquity_log.3243[5765]: Get:24 http://us.archive.ubuntu.com/ubuntu noble-
updates/main amd64 linux-firmware amd64 20240318.git3b128b60-0ubuntu2.3 [483 MB]
Sep 16 23:15:22 ubuntu subiquity_log.3243[5765]: Get:25 http://us.archive.ubuntu.com/ubuntu noble-
updates/main amd64 linux-modules-6.8.0-45-generic amd64 6.8.0-45.45 [39.1 MB]
Sep 16 23:16:23 ubuntu subiquity_log.3243[5765]: Get:26 http://us.archive.ubuntu.com/ubuntu noble-
updates/main amd64 linux-image-6.8.0-45-generic amd64 6.8.0-45.45 [14.7 MB]
Sep 16 23:16:46 ubuntu subiquity_log.3243[5765]: Get:27 http://us.archive.ubuntu.com/ubuntu noble-
updates/main amd64 linux-modules-extra-6.8.0-45-generic amd64 6.8.0-45.45 [113 MB]

< || > Installing the system...
```

Currently installing which is taking longer than 40 minutes at this point...

Do something more useful or entertaining on Ubuntu than I did below. And take a screenshot.



FINALLY INSTALLED (1 hr: 20min later)!!!

I ran `ls -l` to check the files and directories with their respective read/write permissions

`Uname -a` to display detailed information about the system (kernel version, system architecture, etc.).

And finally `df -h` to show how much disk space is used and available in human-readable format.

This gives me a better insight of the machine and so far it is running smoothly!

Post Lab Thoughts

Challenges/Feedback: I thought this lab was straightforward. I had the most trouble with downloading Ubuntu onto the VM as it took much longer than expected. I'm excited to use this VM on other projects!

This summer I worked for a remote company and used a Cloud Computer through Windows 365 Cloud. It was really useful, and although it was a bit annoying to sign into every morning, was a bit more relaxing than having to haul around another physical computer.

Like the last lab I appreciated all the screenshots and descriptions of every step. Only criticism I would give is to give a bigger disclaimer on how long it takes Ubuntu to install onto the VM (unless I did something wrong and it took far longer than it should have). I know you did say grab 2 coffees lol... Gues I should have listened.