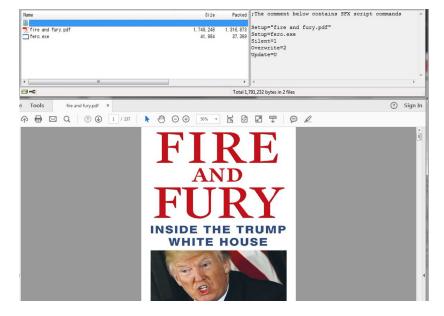
CSCI 2461, Computer Networking 3 - Linux Week 03 (Rev. 0)

Wednesday, January 24, 2018



Introduction

eBook Piracy



Due Homework

How was your experience with Chapter 2, Navigation, and writing your BASH scripts?

- HLW Ch 2 commands put into scripts
- Week 2 Lab Linux Command.org "Learning the Shell"

What are page tables?

How Cache Works

0000 •000000 0000 00000 00000 00000

Devices (How Linux Works, Chapter 3)

Lab

Homework

Ciao!

Introduction

Lab Time

GitHub

Lab Time

Opening Lab Time

We're going to open up class today by working on your scripts, and if you haven't already you'll submit your assignment on D2L.

Open How Linux Works to Chapter 2 and apply all of the commands from Chapter 2 in a script.

Use Linux Command.org "Writing Shell Scripts" as a reference.

How Linux Works, Chapter 2 (Basic Shell Commands)

- echo, cat
- ls, cp, mv, touch
- ullet echo "Hello World" > hello.txt
- cat hello.txt

How Linux Works, Chapter 2 (Directories)

- cd, mkdir, rmdir
- Globbing (*)

How Linux Works, Chapter 2 (Files)

- grep, less, pwd
- diff, file, locate
- head, tail, sort
- dot files

How Linux Works, Chapter 2 (Environment Variables)

- echo \$PATH
- STUFF=blah; export STUFF; echo \$STUFF
- set
- set STUFF2=blaher; echo \$STUFF2

How Linux Works, Chapter 2 (Special Characters, pg23)

- man bash
- search for "control operators"
 - /control

How Linux Works, Chapter 2 (Intermediate)

- Text Editors (vi, nano)
- man pages
- man -k keyword
- man 5 passwd
- info

Introduction Lab Time October 1 Devices (How Linux Works, Chapter 3) Lab Homework Ciaol October 2 October

GitHub

Introduction

Open GitHub Guides

- Open Understanding the GitHub Flow
- Try Git

GitHub Hello World

- Complete Hello World!
- Complete Getting Started with GitHub Pages
- Homework: Read Git Handbook

GitHub Cheat Sheet

GitHub Cheat Sheet

Devices (How Linux Works, Chapter 3)

How Linux Works, Chapter 3 (Device Files, pg46)

- Open Debian Linux Devices
- echo blah blah > /dev/null
- cd /dev; ls -l

How Linux Works, Chapter 3 (sysfs device path)

- blkid; lsblk
- find /sys | grep sd | less
- ls -l /dev /dev/mapper | grep '^b'
- ls /proc/partitions

How Linux Works, Chapter 3 (dd)

- cd ~; pwd; dd if=/dev/zero of=./empty.file bs=1M count=1
- hexdump empty.file

How Linux Works, Chapter 3 (Device Names)

- \bullet dmesg | grep sd
- Read TLDP HowTo Partition

Devices (How Linux Works, Chapter 3)

Lab

Homework

Ciao!

Introduction

Lab Time

GitHub

Lab

Ending Lab

Use the rest of the class time to:

- Ask questions.
- Start your homework.
- Work through LinuxCommand.org
- Prepare your Chapter 3 shell scripts to Upload to D2L
- Talk about your script, talk to a peer about their script.

Homework

Lab

- Write an executable shell script applying How Linux Works Chapter 3 material, submit to Discussion on D2L
- Review a peers script in D2L Discussions, and submit both yours and theirs to Assignments in plain text before next Tuesday.

Reference LinuxCommand.org's Writing Shell Scripts as needed.

Reading

- Read the Linux Filesystem Hierarchy Standard
- Review the Linux Standard Base
- Read "How Linux Works" Chapter 3 and write a script to apply the material
- Read and review peer scripts in D2L Discussions

0 0000 0000000 0000 00000 0000 0000 •

Devices (How Linux Works, Chapter 3)

Lab

Homework

Ciao!

Introduction

Lab Time

GitHub

Ciao!