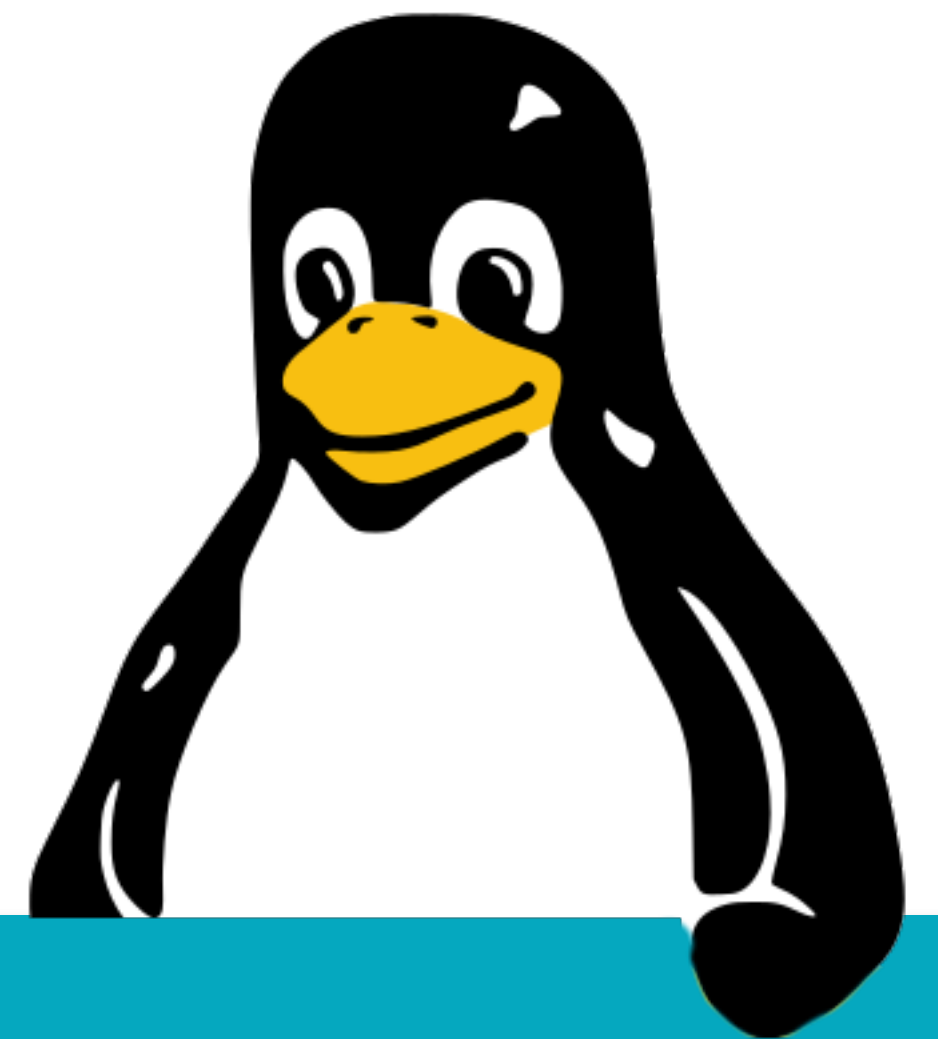


Linux, day 11



Objectives covered

Objective	Summary	Boek
1.1	Device types and hardware	23
1.2	File compression and backups	12
1.4	Process management	21
1.4	Scheduling	26

LAB: Job control

Assignment 1

- Create a small shell script "*~/at-test.sh*".
 - This should append "Hello!" to */tmp/at-test.txt*.
 - It should also include the output of "*date*".
- Use "*at*" to run it in 1 minute.
- Use "*crontab*" to schedule it for every minute.

Assignment 2

- Create a small shell script */opt/mysvc.sh*
 - This should write into */var/log/mysvc.log*
 - First test it manually.
- Use this: [Create a simple systemd service unit.](#)
 - Make *mysvc.sh* a systemd service that runs at reboot.
 - Prove that it works.

LAB: Archives, backups, etc.



Assignment 1

- Make a *zipped tar*-archive of your home directory.
- SCP archive to the other VM and unpack in */tmp*.
- Careful, these three have different results!

```
$ tar zcf /tmp/home1.tgz /home/tess/  
$ cd /home; tar zcf /tmp/home2.tgz tess/  
$ cd ~; tar zcf /tmp/home3.tgz ./
```

Assignment 2

- Can you make a *zip* or *gzip* with:
 - All the *.txt* files in the */usr/share* directory tree?
- Hint: combine the *find* command,
 - With an option of "*zip*" to read files from *stdin*.

Assignment 3

- Use rsync to synchronize */var/www/*,
 - From one VM to */tmp/www* on the other.
 - Or to *localhost:/tmp/www* if you have one VM.
- Be careful how you specify source and destination!

Practicing your Linux



"The end is nigh!"

- We are almost done covering the objectives.
- Six more classes and we will have...
 - Gone over the theory.
 - Done exercises in the labs.
 - Tackled practice questions.

Your time to shine!

- To really understand Linux, you need more.
 - What we have done scratches the surface.
 - Now you need practice!
- Two-pronged attack:
 - Theory and practical exercises.

Practicing theory

- The Sybex book offers flashcards and trial exams.
 - Use them to test your current score,
 - Or use them to "*level up*"! Research each question!
- Shawn Powers has a great YouTube channel.
 - Bash practice *and* a Linux+ course!

Practicing scripting

- U of Cambridge has a [set of short scripting exercises](#).
- TLDP also has [short scripting exercises](#).

Practicing for real

- CertDepot.net has daily Linux tasks.
 - Targeted at the RHCSA exam, so above Linux+.
 - Research! Test! Build! And take notes!
- Also: [Red Hat](#) has online labs!

Practicing for real

CertDepot

Everything you need to pass your RHCSA, RHCE, LFCS, LFCE and much more.

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Latest

Posted on June 11,

Kubernetes:

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- KBOM: Kubernetes Bill of Materials,
- Kasten Backup & Restore of the Strimzi Kafka Operator,
- Seabird: Native Kubernetes desktop client,

RHEL6 Free available resources

RHEL6 Book review

RHEL6 RHCSA (EX200)

RHEL6 RHCE (EX300)

RHEL6 LFCS

RHEL6 LFCE

RHEL6 Red Hat Certification overview

RHEL6 RHCSA Exam objectives

RHEL6 RHCSA Other requirements

RHEL6 RHCSA & RHCE FAQ

RHEL6 RHCSA Quiz

RHEL6 RHCSA Sample exam 1

RHEL6 RHCSA Sample exam 2

Want something tougher?

- CertDepot.net also has full practice exams!
 - A list of tasks to perform within a time frame.
 - They're a great source of exercises!
- There's also a [great Github project with more tests.](#)
- Sander van Vugt [also has RHCSA prep-exams.](#)
- Linux Foundation has [LFCS practice questions.](#)

More practice!

- [KodeKloud Engineer](#) is a gamified learning platform.
 - You're a Linux admin who needs to do tasks.
- [Exercism.org](#), with Bash exercises
- [Linux Upskill Challenge](#) is a free, 30-day course.
 - It has a lot of cool exercises and labs.

Weekly updates

- Please, do yourself a favor:
 - Do at least one CertDepot task each week.
 - Compile notes for yourself.
 - Send me a little report on what you did and how.

Closing

Homework

- Reading:
 - Chapter 9
 - Chapter 13
 - Chapter 17

Homework

- Go do:
 - Set up a nightly cron job.
 - This job should run rsync,
 - FROM your home directory on Fedora,
 - TO */data/homedir/* on the second VM.

Reference materials



Resources

- [Sending signal to processes](#)
- [How to use tmux \(and why it's better than screen\)](#)
- [Create a simple systemd service unit.](#)
- [crontab.guru](#)
- [How to write basic udev rules](#)
- [An introduction to udev](#)
- [Why use cpio for initramfs](#)

Resources

- [Learning about systemd timers](#)
- [Cron, Anacron, Systemd and scheduling](#)
- [ArchWiki Systemd timers](#)
- [TTY demystified](#)

Resources

- [Why switch to XZ from gzip/bzip2](#)
- [How to use rsync](#)
- [PluralSight learning path for XK0-005](#)
- [Creating shell scripts in Enterprise Linux](#)
- [Small set of scripting exercises](#) (U of C)
- [More scripting exercises](#) (TLDP)
- [CertDepot.net daily Linux tasks.](#)

Resources

- [Linux Upskill Challenge](#)
- [KodeKloud Engineer](#)
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