





Linux – introduction



Purpose



- Get a grip on the very basics: an introduction to the (basic) Linux commands as normally used for computational research.
- · Focus on using the command line
- Short hands-on examples
- Based on the slides of Mag Selwa ICTS @ KULeuven
 - https://hpcleuven.github.io/Linux-intro/
- https://franklbvp.github.io/linuxintro/

Outline

- · Introduction history
- · Command line basics getting help
- · File system
- · Working with files and directories
- · More file handling
- · The shell revisited
- Monitoring resources

Information



• Most of the presentation is based on the information found in:

http://dontfearthecommandline.blogspot.com/

(not accessible anymore)

Nicholas Marsh

Introduction to the Command Line (Second Edition)

• http://linuxcommand.org/tlcl.php

William Shotts

The Linux Command Line

http://www.oreilly.com/programming/free/ten-steps-to-linux-survival.csp?download=yes&order=1274753

James Lehmer

Ten Steps to Linux Survival

• https://bootlin.com/doc/legacy/command-line/unix_linux_introduction.pdf

Michael Opdenacker & Thomas Petazzoni

The Unix and GNU/Linux command line

Information

- https://cvw.cac.cornell.edu/Linux/
- Nathan Haines, Beginning Ubuntu for Windows and Mac Users, Apress, 2017
- Philip Kirkbride, Basic Linux Terminal Tips and Tricks, Apress 2020
- Prateek Singh, Learn Windows Subsystem for Linux, Apress 2020

Websites?



- https://www.howtogeek.com/t/linux/
 - Includes help, tutorials, tips and how-to guides for Linux.
- http://www.tldp.org
 - The Linux Documentation Project
- https://lwn.net
 - Linux Weekly News:Covering the Linux and free software communities since 1998.
- https://itsfoss.com/
- https://www.noobslab.com/
- https://www.tecmint.com/

Running Linux?

- MacOS: open a terminal window
- Windows
 - · WSL: windows subsystem for linux
 - MobaXterm can be helpful
 - · Install virtual machine software
 - · Vmware player
 - https://www.vmware.com/products/workstation-player.html
 - Virtualbox
 - https://www.virtualbox.org/
 - · Install a linux distribution
 - Ubuntu https://ubuntu.com/
 - · CentOS https://www.centos.org/
 - · Opensuse https://www.opensuse.org/

WSL

- Check for a detailed description:
- https://people.cs.clemson.edu/~hollowe/SoC%20Info/WSL.html
- https://www.cs.odu.edu/~zeil/FAQs/Public/win10Bash/ (also useful for C programming)
- https://docs.microsoft.com/en-us/windows/wsl/install-win10







Ubuntu on Windows

• https://ubuntu.tutorials24x7.com/blog/how-to-install-ubuntu-on-windows-using-vmware-workstation-player

Running Linux? Online

- Webminal (https://webminal.org)
- repl.it (https://replit.com/)
- CoCalc (https://cocalc.com)