

# Intermediate Linux

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second edition

\$whoami

- ▶ Freelance Consultant
- ▶ started Linux when it shipped on 35 3.5" disks
- ▶ 1st IPv6 presentation in 2007
- ▶ 1st large IPv6 project in 2012
- ▶ Besides IPv6: networking, automation, monitoring

# Intro

# This is episode 2

Slides of episode 1 can be found here:

TODO

# Rules

- ▶ YMMV - Your Milage May Vary
- ▶ TMTOWTDI - There is More Then One Way Too Do IT
- ▶ Mostly live demos, slides are mostly a reference
- ▶ Feel free to try (some) of the tools

# Structure

- ▶ sometimes I'll mention alternative tools
- ▶ brief example
- ▶ you will be missing a lot of tools, input is welcome



- ▶ Tools should all work on Linux, MacOS and WSL
- ▶ Note: WSL 2 does not work with IPv6 (out of the box)
- ▶ not all tools are available via your distributions package manager
- ▶ \$ - normal user
- ▶ # - root

- ▶ Read the fine|f\*\*king manual
- ▶ “There is a book by a Spanish guy called Manual. You should read it.”
- ▶ At least on Debian: A command without a decent man page is considered a bug

```
$ man man
```

Also for GNU commands:

```
$ info
```

# First things first

- ▶ If you want to document your terminal session use the *script* command

```
$ script [file]
```

- ▶ If you want animations: <https://asciinema.org/>

# Looking busy

- ▶ **hollywood** - fill your console with Hollywood melodrama technobabble

## Documentation

- ▶ **tldr** - Display simple help pages for command-line tools from the tldr-pages project.

# Documentation - writing

- ▶ My preferred way: Markdown
- ▶ **pandoc** - Convert documents between various formats
- ▶ **mermaid** - JavaScript based diagramming and charting tool that renders Markdown-inspired text definitions to create and modify diagrams dynamically.

## Working with files



# Working with files

- ▶ **bat** - Print and concatenate files. A cat clone with syntax highlighting and Git integration
- ▶ **fzf** - Command-line fuzzy finder
- ▶ **jq** - A JSON processor that uses a domain-specific language (DSL)
- ▶ **mlr** - Miller is like awk, sed, cut, join, and sort for name-indexed data such as CSV, TSV, and tabular JSON
- ▶ **unp** - Extract any archive
- ▶ **ugrep** - Faster grep

## Network services

# Network services

- ▶ **http** - HTTPie: an HTTP client designed for testing, debugging, and generally interacting with APIs & HTTP servers
- ▶ **swaks** - Swiss Army Knife SMTP, the all-purpose SMTP transaction tester
- ▶ **testssl** - Check SSL/TLS protocols and ciphers supported by a server
- ▶ **zonemaster-cli** - Give your domain name a complete checkup!

## Network capture

# Network capture

- ▶ **termshark** - A wireshark-inspired terminal user interface for tshark
- ▶ **dumpcap** - Dump network traffic

## Network tools

# Network tools

- ▶ **mdns-scan** - Scan for mDNS/DNS-SD services published on the local network
- ▶ **aerleon** - Generate firewall configs for multiple firewall platforms from a single platform-agnostic configuration language through a command line tool and Python API
- ▶ **trip** -
- ▶ **mtr** - Matt's Traceroute: combined traceroute and ping tool

One for the road



# One for the road

How is the weather today?

```
$ curl wttr.in
```