

Unit 2: Welcome to your home

Intermediate UNIX CLI

Lesson 17

Derek Ruths

Overview of unit

Objectives:

- Fundamentals of working in UNIX
- Fundamentals of working in the cloud

1. Why UNIX?
2. Why AWS and the Cloud?
3. Setting up a UNIX VM
4. SSH
5. Key-based Auth
6. Basic UNIX commands & admin
7. Installing python
8. Intermediate UNIX tools
9. Working remote
10. Text editors
11. Advanced customization
12. HW 2

Lesson overview

Objectives

- Essential commands for working with data
- Learn how to chain commands together
- See how environment variables work

Outline

- Steps
- Let's do it!

Core data interrogation commands

- ls
- wc word count (-l for lines, -w for words, -c for characters)
- head prints top 10 lines or head -n for a diff number
- tail end of file (-n)
- grep regex
↳ e.g. grep "crop[^\"]" file
↳ followed by a char that is not a)
• move - scroll through file (enter, space to go to bottom)
• less → G → bottom of file

Chaining commands

- File redirection
- Pipes

Environment Variables

- PATH
- PS1
- PYTHONPATH
- Good to know about: echo

Lesson wrap-up

Takeaways

- You've now seen pretty much all the essential UNIX tools/commands

Up next

- Working remote