Unit 2: Welcome to your home SSH Fundamentals

Lesson 14

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

- Understand the use and configuration for ssh
- Understand public-private keys
- Setup access to your EC2

Outline

- How does ssh work?
- How does public-private cryptography work?
- Setting up your ssh client to access your EC2 instance

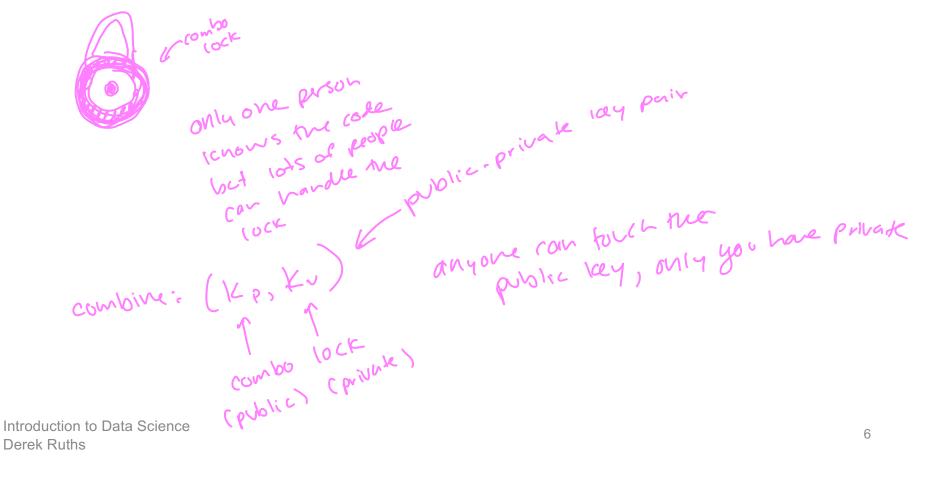
How does SSH work?

- SSH = "secure shell"
- A way to access the (UNIX) command line on another computer

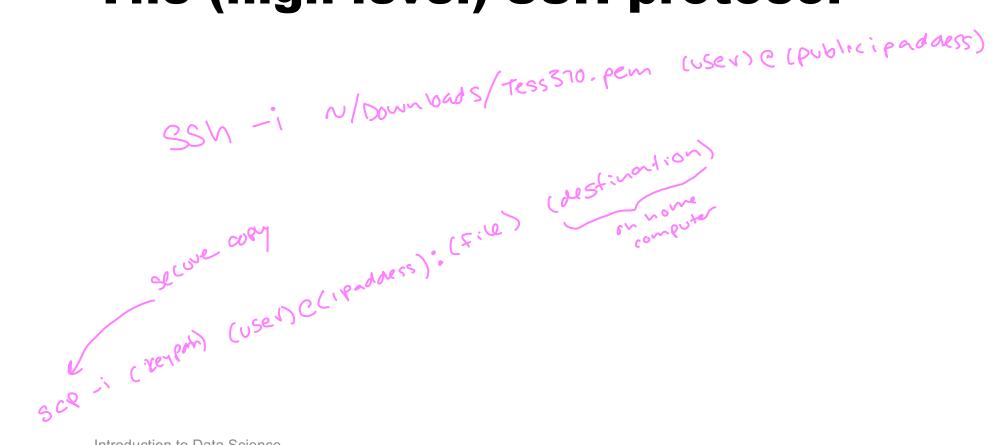
The authentication problem

Passwords are clumber and capitable

Public-private key cryptography



The (high-level) SSH protocol



Introduction to Data Science Derek Ruths

Demo time

Lesson wrap-up

Takeaways

You can get into your EC2!

Up next

• Basic UNIX commands & admin