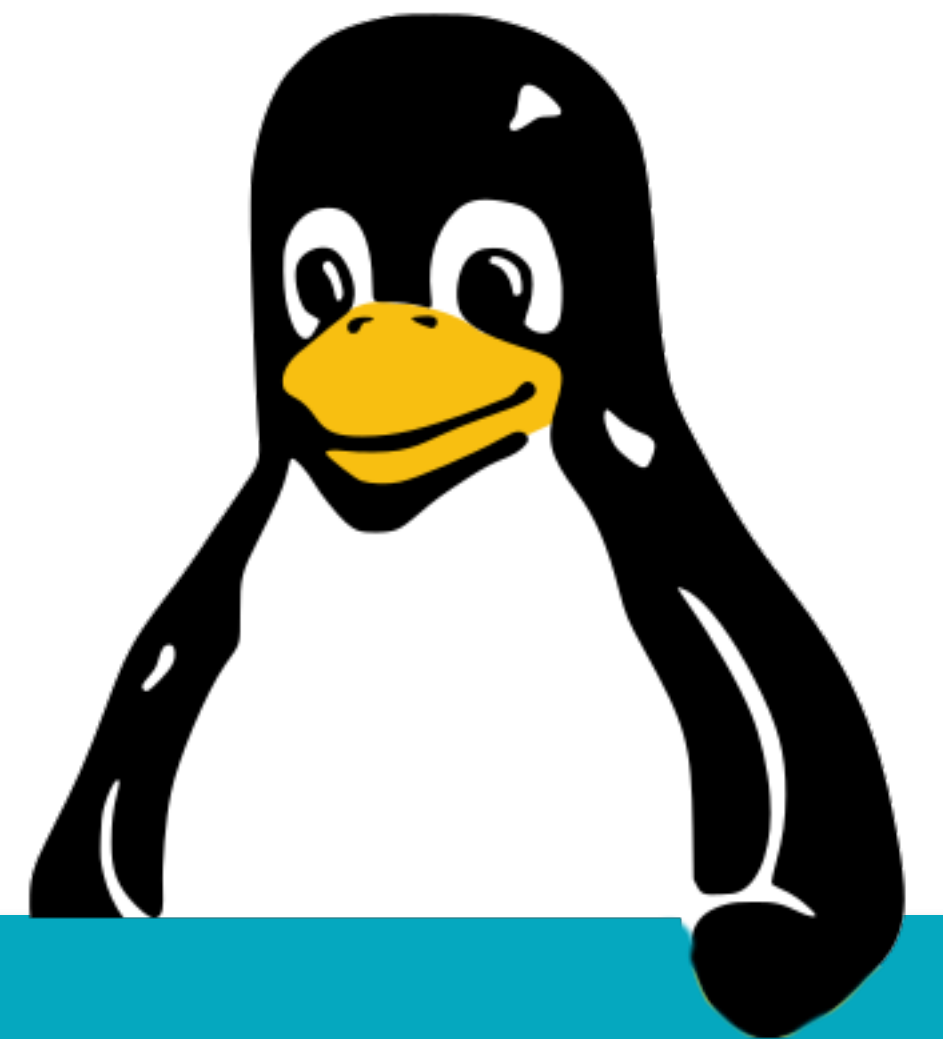


Linux, day 2



Related objectives

Objective	Summary	Book
1.2	File editing, file and directory operations	3
2.2	Account creation and deletion	10
2.4	SSH	16

Making Host OS to VM connections easier



Oofff!

- So far, we've done this to login:

```
$ ssh -p 2222 tесс@localhost
```

- That's a lot to type and to remember!
 - It's easy to mix up the ports!

/etc/hosts cannot help us

- If localhost:2222 is Fedora,
 - And if localhost:2223 is Ubuntu,
 - Then it's not the hostname that's the problem!
- We need to find a way to make aliases.

SSH config aliases

- We can configure the SSH client,
 - To give it pre-defined connection aliases.

See: [Stop making shell aliases for SSH!](#)

Which config file?

- All of this applies to your host OS!

Windows - Putty	Just use the graphical interface. 😊
Windows - Powershell	notepad \$HOME\.ssh\config # Careful! No .txt extension!
Linux	nano ~/.ssh/config
MacOS	vi ~/.ssh/config

What to add?

Host fedoravm

Port 2222

Hostname localhost

Host ubuntuvm

Port 2223

Hostname localhost

Now, you can run:

```
$ ssh tess@fedoravm
```

```
$ ssh tess@ubuntuvms
```

From the host OS as well! 🎉

Recap: SSH config

- The SSH client has its own configuration.
- A "Host" block in "config" is an alias. It has:
 - An alias name.
 - A target host and port number.
 - A target user and more.

LAB: Users and groups



Command hints

useradd	Create a new user
usermod	Modify a user
groupadd	Create a new group
id	Show identity of a user
man	MANual pages

Assignment

- Create two new groups:
 - “staff” and “dummies”
- Create another two new users:
 - “opsuser” and “dummy2”
- Add yourself and “opsuser” to “staff”.
- Add “dummy” and “dummy2” to “dummies”

Assignment (spoilers)

```
$ sudo useradd -m opsuser  
$ sudo useradd -m dummy2  
$ sudo groupadd staff  
$ sudo groupadd dummies  
$ sudo usermod -a -G staff opsuser  
$ sudo usermod -a -G staff $USER  
$ sudo usermod -a -G dummies dummy  
$ sudo usermod -a -G dummies dummy2
```

Closing



Homework

- Reading:
 - Chapter 4
 - Chapter 12
 - Chapter 15

Homework

- Go do:
 - Get a [free copy of the CPH book](#).

Reference materials



Resources

- [VirtualBox networking modes](#)
- [Stop making shell aliases for SSH!](#)
- [Download Putty](#)
- [Download WinSCP](#)
- [SSH keys for dummies](#)
- [Cyber Plumber's Handbook](#)