Welcome!

AfNOG **Chix 2015**

Unix System Administration & Networking

Maseru, Lesotho

Course objectives

After attending this track you should be able to:

- Install and upgrade the Unix (FreeBSD) operating system on standard PC hardware
- Provide basic security for a Unix installation
- Use Unix to provide some essential Internet services
- Administer a Unix server in a reasonable, secure and reliable fashion
- Have knowledge on basic networking principles

What we'll talk about

We'll talk about the following concepts:

- Unix/Linux Concepts and hands-on using The FreeBSD OS
- Basic Internet Protocols and how they work (IPv4 and IPv6)
- Some basic Internet services and how they function, including DNS, Web, SSH and host security
- Simple Routing
- Designing installations for long-term scalability of services

Instructors

- Marcus Adomey (MA), GH
- Irene Misoi (IM), KE
- Anna Saine (AS), GM
- Mamothokoane Tlali (MT), LS
- Puseletso Putsoane (PP), LS

Admin:
Nancy Dotse (ND), GH

Participant Introductions

Get to know each other!

- Names
- Organization
- What your work involves

Close your laptops :)

Presentations

★ Theory followed by practicals

◆ Help us help you

◆ Complaints / Suggestions Box

◆ Please set your phones on silent

◆ Close your laptops during theory sessions

Schedule

- 0900-1100 : First session
- 1100-1130 break (tea / coffee break)
- 1130-1300 : Second Session
- 1300-1400 lunch (Buffet served at the Kitchen)
- 1400-1530 : Third Session
- 1530-1600 break (tea / coffee break)
- 1600-1730 : Final Session

Please be back in class on time from breaks

Class Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
09.00 – 11.00	Welcome Introduction Unix Concepts FreeBSD Installation	Introduction to Security &Cryptography	TCP/IP Network Essentials	IPv4 and IPv6 Basics Labs	Host Security Log Management
11.00 – 11.30	BREAK				
11.30 – 13.00	FreeBSD Installation Cont.	Security Essentials (SSH & GnuPG) with Lab	IPv4 and IPv6 Basics	Introduction to Routing	Introduction Backup and RAID
13.00 – 14.00	LUNCH				
14.00 – 15.30	Introduction to Unix System Administration Unix Basic Commands	Unix Text Editors & Basic Shell Scripting	DNS Essentials	Apache Web Server	FreeBSD Installation on VirtualBox
15.30 – 16.00	BREAK				
16.00 – 17.30	Unix File System / Unix Hands-On	Ports & Packages	DNS Exercises	Apache Web Server Exercises	AfChix Closing Ceremony

Gifts / AfCHIX swag

- **A Workshop t-shirt**

- **Books:** - Linux in a nutshell by O'reilly
- Linux System Administration by O'reilly

- **Workshop Material: -** Please download from Noc server before the end of the Class

Safety

Please be careful in class:

Don't

- trip on power cords
- pull cables out of sockets
- knock equipment off tables
- fall from leaning back too far in your chair

Social Event

- AfNOG Chix Dinner – Venue to be Decided

Thursday 18th November 2015
@7:30pm

Dress code: Dress up, it's a Dinner :-)

Group Pictures

Thursday 19th November 2015

- Group photo
- Session photos
- Please make sure you are around during the first tea break

Questions

- ?