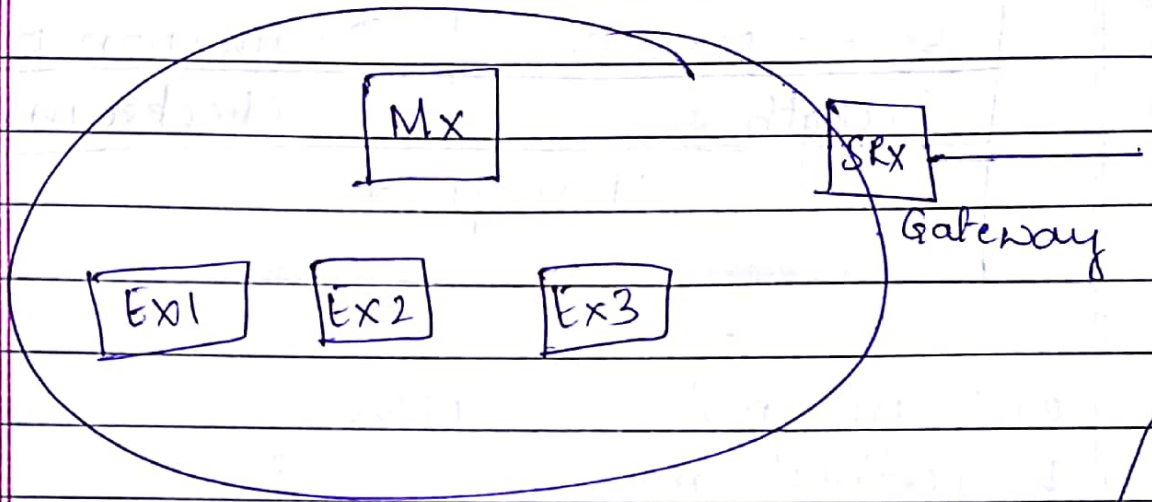


20/3/2018 .

Junos :



C1 → 176.16.1.1

B1 → .2.1

C2 → .3.1

B2 → .4.1

A2 → .5.1

D3 → .6.1

D1 → .7.1

A1 → .8.1

2) IP address : 176.16.2.2
Default gateway : 176.16.2.1 (IP addr of switch)

- 1) Connect RJ-45 to Management port with laptop.
- 2) subnet mask: 255.255.0.0.
- 3) Putty s/w : Enter IP address → Click Open
- 4) Username: root
Pwd: root@123!

Shell prompt → % symbol
CLI prompt

- 1) cli
 - 2) > Operational mode. shell script mode %.
- En device
- ```

graph LR
 EnDevice[En device] --> Operational[Operational mode >]
 EnDevice --> Configure[Configure mode #]

```

Operational: Monitor and troubleshoot software, n/w connectivity.

Configuration mode: Configure protocols, devices.

[edit]

user@router#

To come out: exit



In operational mode type '2'

↓  
different commands are displayed

To know the complete syntax :

root > \_\_\_\_\_?

Eg: root > clear?

Syntax:  
clear.

To know interface info :

root > help <sup>topic</sup> interface?

To know references info :

root > help ~~cmd~~ reference interface?

\* Can use spacebar to complete comp commands.

Commands on i info:

root > show i

## Common short cut commands:

Ctrl + b → back

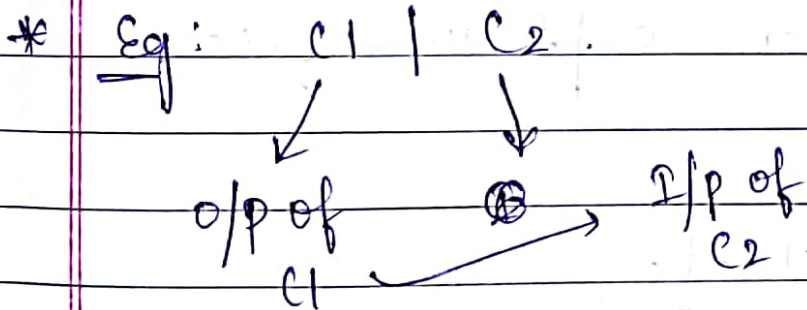
Ctrl + f → forward

Ctrl + a → Beginning

Ctrl + e → End

pipe → |

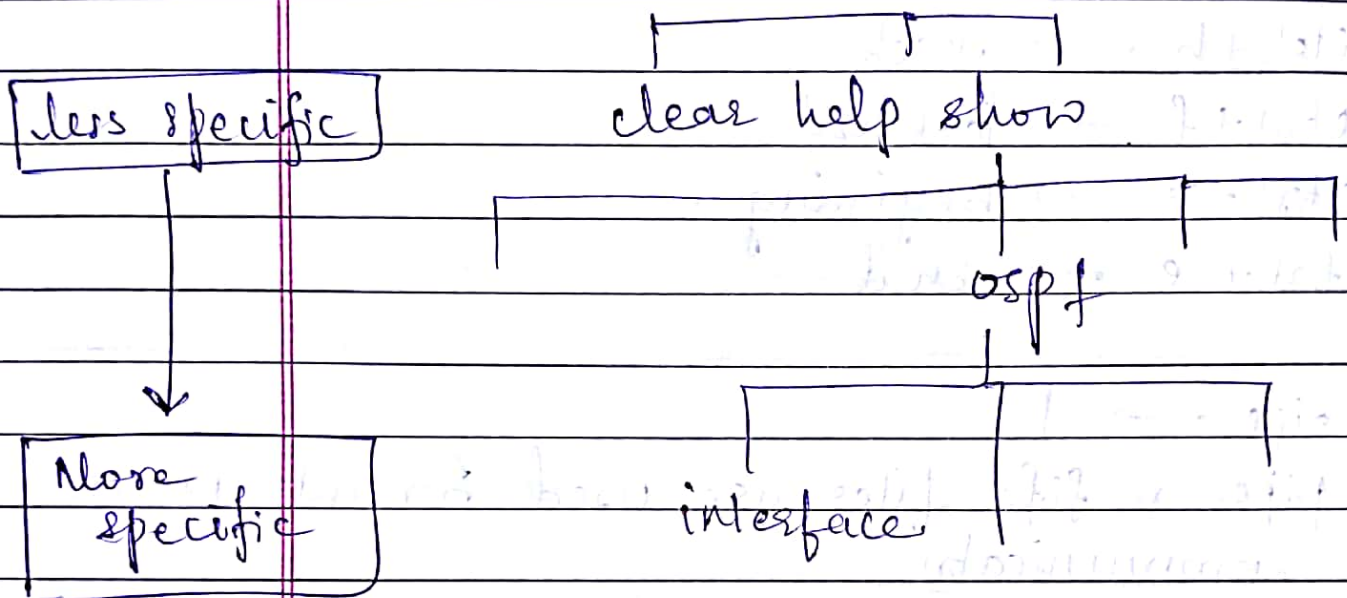
\* pipe & fifo files are used for interprocess communication.



\* Command for pipe:

root > show route | ? ~~ccap~~

## Hierarchy of commands:



Eg: `root > show ospf interface`

## Configuration Mode:

- 1) `root > edit → [edit]`  
entering configuration mode
- 2) `root # edit system → [edit system]`
- 3) `root # edit services → [edit system services]`
- 4) `root # up → goes to [edit system]`
- 5) `root # topp → goes to root [edit]`



goes thro level up

Date: / /

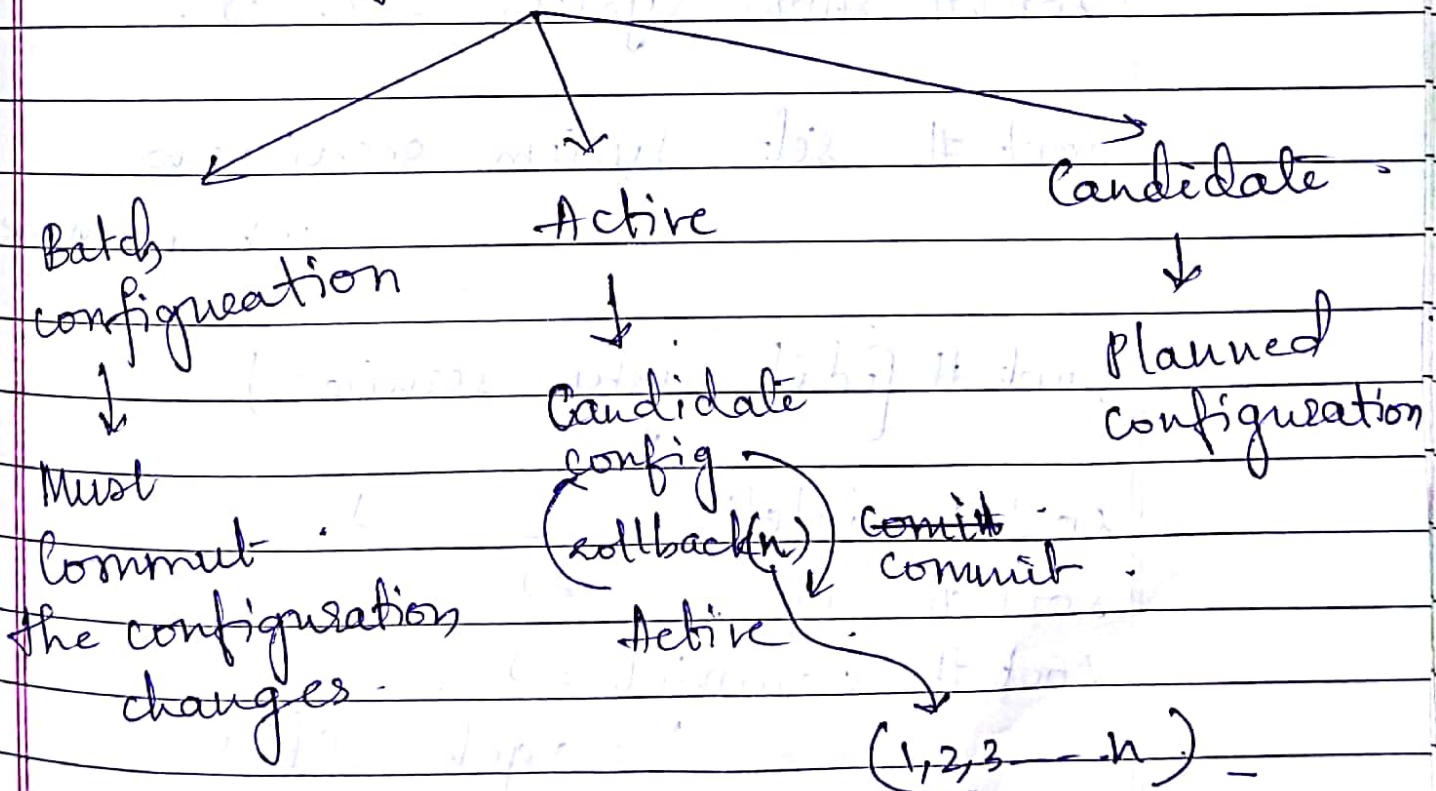
Page No.:

6) root# up@2 → goes to [edit] (from services)  
7) root# edit system services

↓  
goes thro level down

\* Configuration class is called  
"Candidate Configuration" (Planned configuration)

\* After setting, configuration, type "Commit"  
then configuration ~~then~~ is set.



At root : Config Mode.

root# set system services ftp ↵

root# set system services telnet ↵

root# " " " " SSH ↵

root# " " " http ↵

root# show system services.

root# set system services ~~web~~  
web-management

root# [edit system services]

root# delete \_\_\_\_\_ ↵

root# set \_\_\_\_\_ ↵

root# commit ↵

↳ gets active.



## Interface Naming.

Example: ge-0/2/3 = port 3 of a Gigabit Ethernet PIC in slot 2 on RPC 0

Each Chassis

To change host name:

Before root:

root % cli

root > edit

~~root % set~~

root > set ~~if~~ interface host-name A2 ←

root > commit.



To set ge :

interface name

```
root@A2 # set interfaces ge-0/0/1.0
family add inet
address 192.10.10.10
```

family: inet, ethernet-switching,

ethernet

↓  
13 ~~str~~  
devices.

↓  
2 switches.

Command to show status of interface

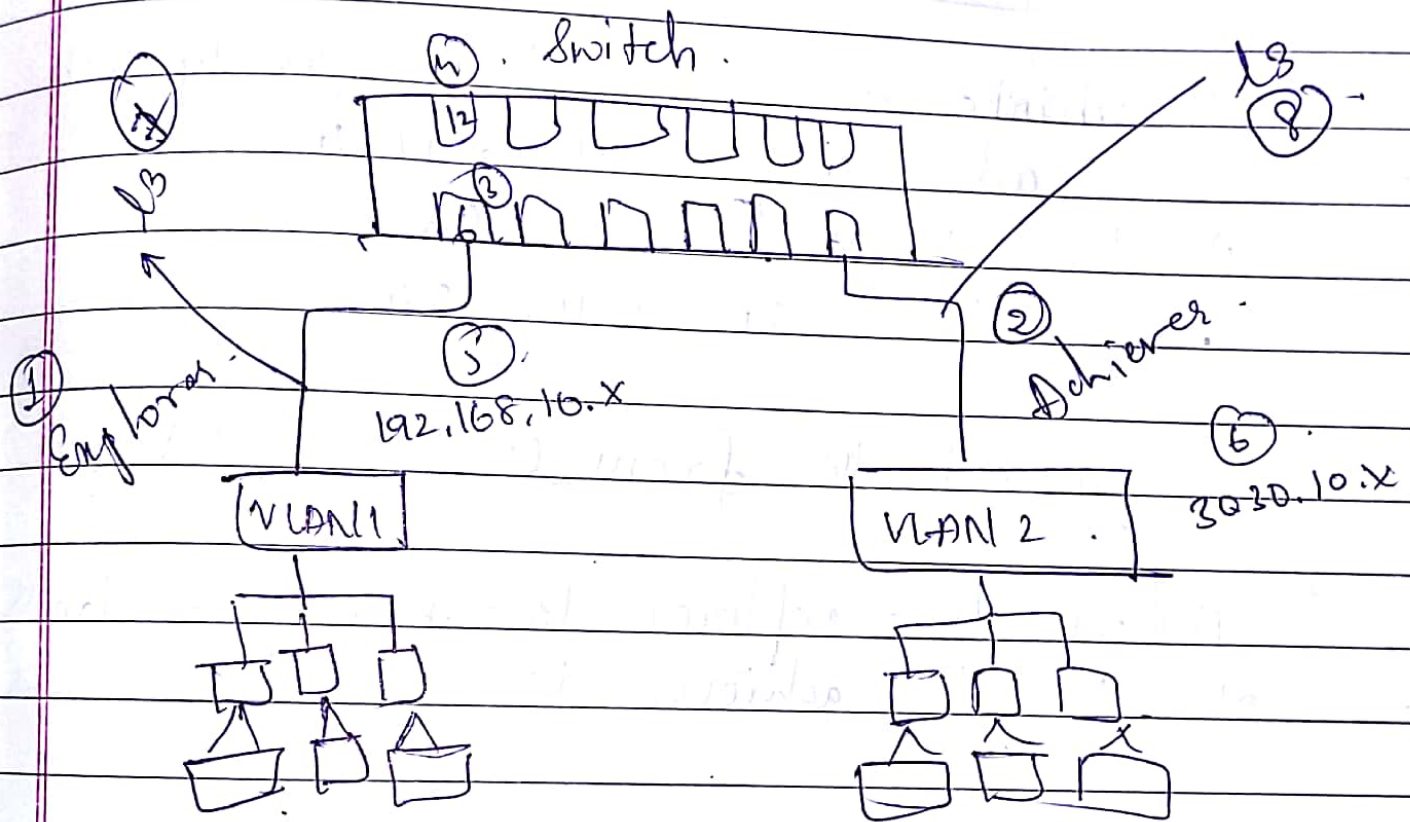
```
root@A2 # run show interfaces terse
```

```
root@A2 # show interfaces terse.
```

Data details wrk packets.

```
root@A2 # show interfaces extensive.
```

# configure VLAN on a switch.



Command: set vlans vlan-name vlan-id

Eg: 1) set vlans explorer vlan-id 55  
2) " " achieve vlan-id 66

3) set interfaces ge-0/0/12 unit 0 family  
ethernet-switching vlan members  
explorer.

4) " " " ge-0/0/12 " " "  
" " " " " "

achieve -



Assign IP-address to vlan.

5) set interfaces vlan unit 55 family inet  
address 192.168.10.1/24

6) " " " " 66 " "  
" 30.30.10.1/24

Convert ~~to~~ from l2 to l3 interface

7) set vms explorer l3 - interface vlan.55.

8) " " achieves l3 - " " 66

- 1) Connect PC to switch
- 2) To go "device manager"
- 3) See the port → (COM3)
- 4) Go to putty (set serial) → IP address

→ Ethernet connection IP → Switch ka  
Subnet →  
Gateway →

Run show interfaces terse.

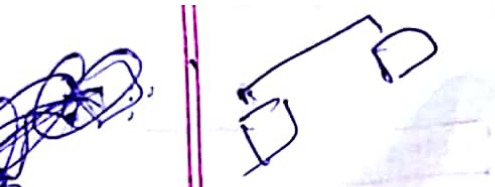
Steps to delete & set new password.

login: root

password: root@123.

- 1) cli
- 2) edit
- 3) delete.
- 4) ~~set~~ system yes
- 5) ~~new~~ set system enable-authentication plain-text  
old
- 6) New password: root@123.
- 7) commit





- 8) set interfaces m0.0 family inet  
address 176.16. 124
- 9) set system services ssh
- 10) commit.

delete → 725

set system root-authentication plain-text  
root@123

set interfaces m0.0 family inet  
address 176.16.124

set system services ssh  
commit.