

Juniper

# Introduction to the Junos Operating System

IJOS 12.d

Instructor: Graham Tuthill

London 2nd February 2017

Could you all please check that you have access to the electronic material. You should have been sent an email with access details.

Course Times:  
9:30 to 4:30

Coffee break 10:45/15 mins  
Lunch 12:30/30 mins  
Coffee break 2:45/15 mins

My Website  
[defaultgateway.co.uk](http://defaultgateway.co.uk)

Pa\$\$w0rd

WIFI GK\_Guest  
187-143-187

Martin

Greg

Colin

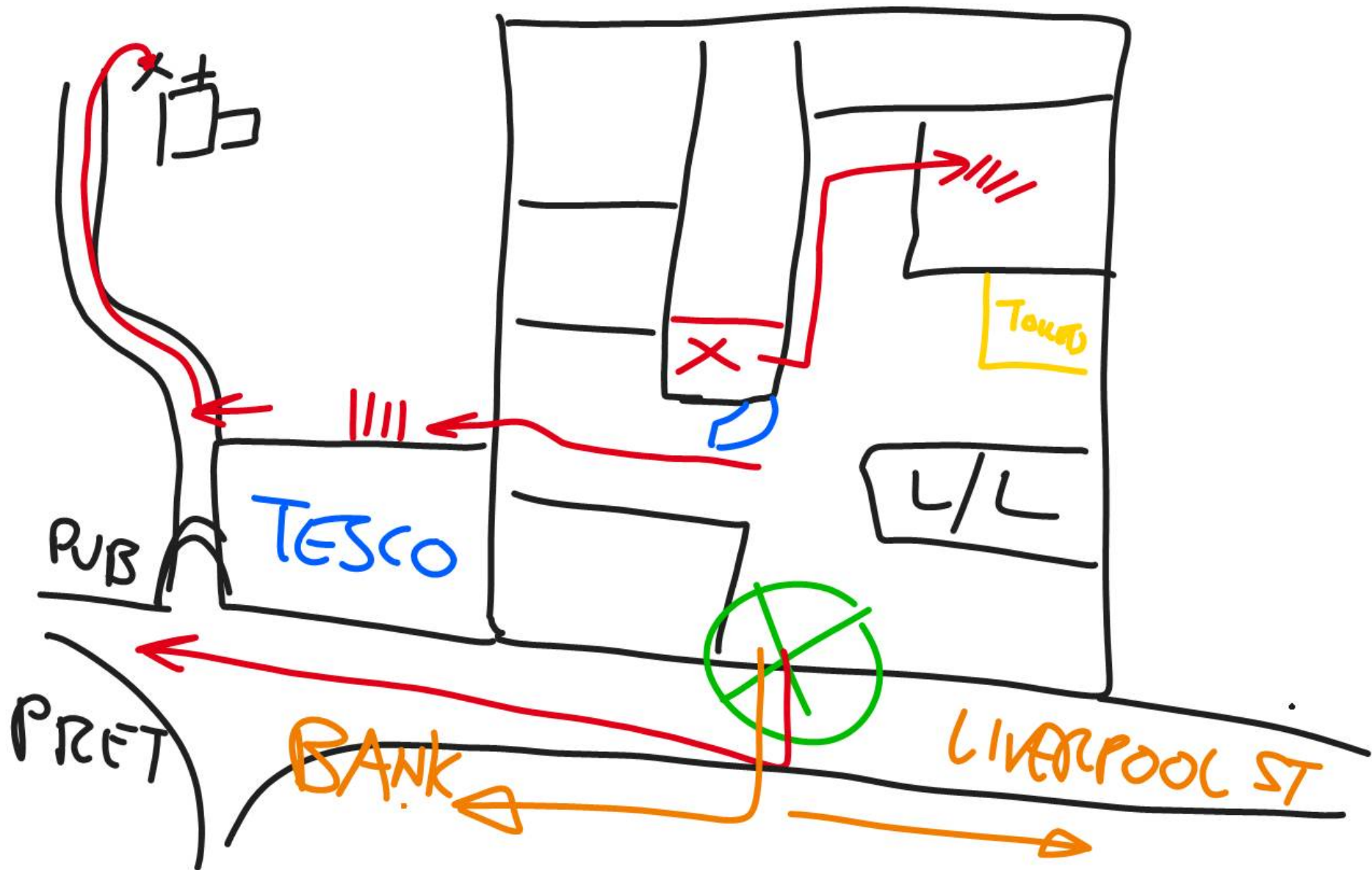
Jonathan

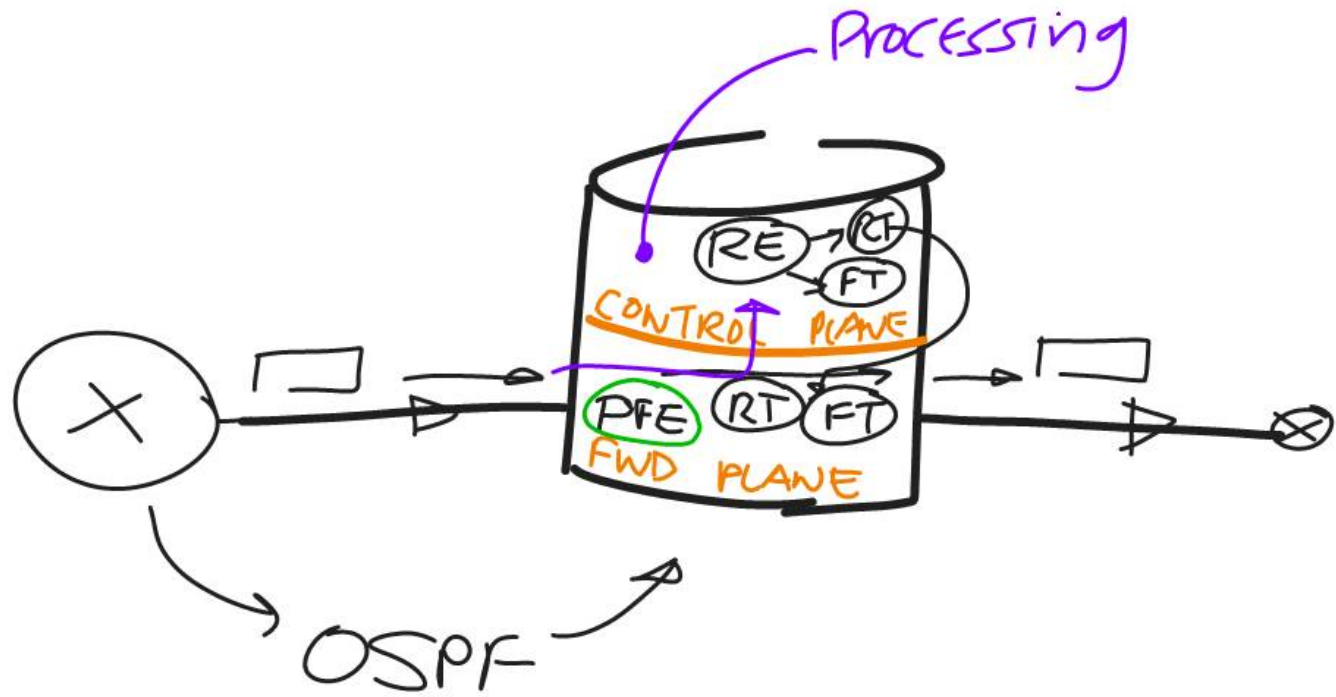
Gabriela

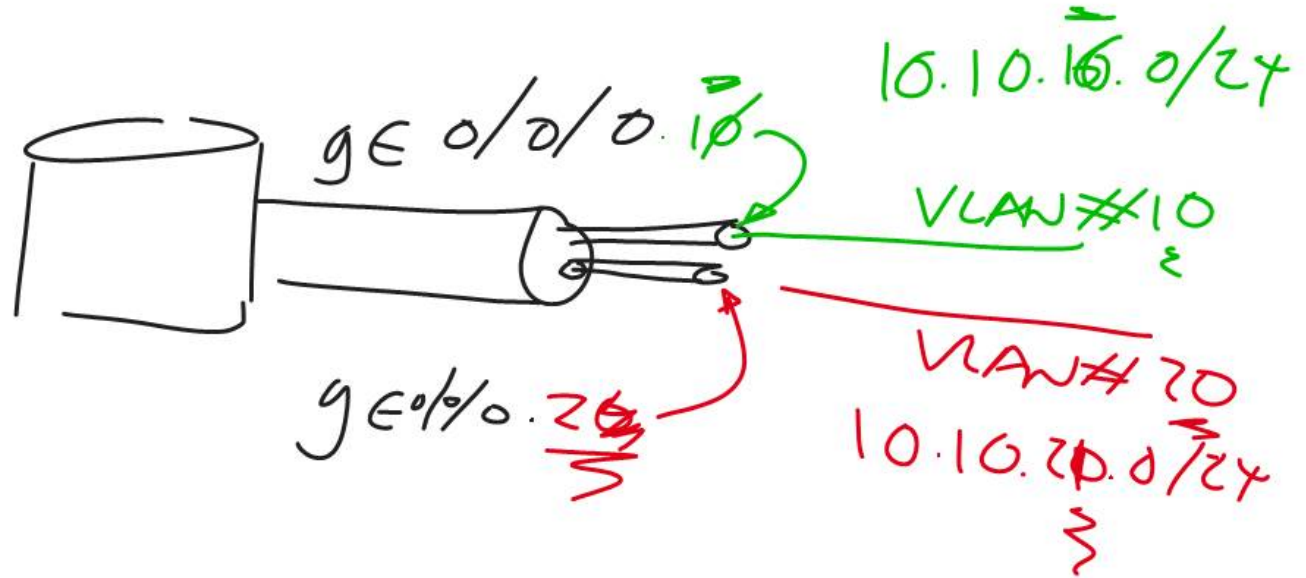
Akin

Eloise

Graham







remote Lab Access URL:

<http://rlsupport.globalknowledge.net/portal/welcome.htm>

Your allocated student accounts are as follows:

IJOS, Rack 1

	Pod	Username	Password
Jonathan	1	GKLABS\u61001	GumPowder
	1	GKLABS\u61002	GumPowder
Greg	2	GKLABS\u61003	GumPowder
	2	GKLABS\u61004	GumPowder
Colin	3	GKLABS\u61005	GumPowder
	3	GKLABS\u61006	GumPowder
Gabriela	4	GKLABS\u61007	GumPowder
	4	GKLABS\u61008	GumPowder

IJOS, Rack 3

	Pod	Username	Password
Eloise	1	GKLABS\u61009	GumPowder
	1	GKLABS\u61010	GumPowder
Martin	2	GKLABS\u61011	GumPowder
	2	GKLABS\u61012	GumPowder
Akin	3	GKLABS\u61013	GumPowder
	3	GKLABS\u61014	GumPowder
	4	GKLABS\u61015	GumPowder
	4	GKLABS\u61016	GumPowder



Complete Lab 3 by 4:2 pm

## Login Details

SRX and eX devices:

Username: lab Password: lab123

Username: root Password: training1

### Management PCs Login

Pod 1 studenta1/juniper  
Pod 1 studenta2/juniper

Pod 2 studentb1/juniper  
Pod 2 studentb2/juniper

Pod 3 studentc1/juniper  
Pod 3 studentc2/juniper

Pod 4 studentd1/juniper  
Pod 4 studentd2/juniper

### Management IP SRX

srxA-1 10.210.14.131/27  
srxA-2 10.210.14.132/27

srxB-1 10.210.14.133/27  
srxB-2 10.210.14.134/27

srxC-1 10.210.14.135/27  
srxC-2 10.210.14.136/27

srxD-1 10.210.14.137/27  
srxD-2 10.210.14.138/27

### Gateway Address

10.210.14.139

### FTP/SCP/ACS/NTP

10.210.14.158



## IJOS LAB NOTES

The Global Knowledge Remote App Portal gives direct console access to srx devices through the terminal server. Telnet or ssh access can only be done via the management pc on each pod. J-Web access should be done through the web browser on the management pc.

### Login Details

SRX and eX devices:

Username: lab Password: lab123

Username: root Password: training1

### Management PC Logins

Pod	Username	Password
Pod 1	studenta1	juniper
	studenta2	
Pod 2	studentb1	
	studentb2	
Pod 3	studentc1	
	studentc2	
Pod 4	studentd1	
	studentd2	

### Management Interface IP Addresses for SRX Devices

srxA-1	10.210.14.131/27	srxC-1	10.210.14.135/27
srxA-2	10.210.14.132/27	srxC-2	10.210.14.136/27
srxB-1	10.210.14.133/27	srxD-1	10.210.14.137/27
srxB-2	10.210.14.134/27	srxD-2	10.210.14.138/27

### FTP / SCP / ACS / NTP Server

IP address = 10.210.14.158

### Default Gateway and vr-device

Default Gateway = 10.210.14.139

The Virtual Router can be accessed via the assigned pod management pc using either ssh or telnet to the default gateway address above and the login information shown in the following table below:

#### Virtual Router Login Details

Student Device	User Name	Password
<i>srxA-1</i>	<i>a1</i>	<i>lab123</i>
<i>srxA-2</i>	<i>a2</i>	<i>lab123</i>
<i>srxB-1</i>	<i>b1</i>	<i>lab123</i>
<i>srxB-2</i>	<i>b2</i>	<i>lab123</i>
<i>srxC-1</i>	<i>c1</i>	<i>lab123</i>
<i>srxC-2</i>	<i>c2</i>	<i>lab123</i>
<i>srxD-1</i>	<i>d1</i>	<i>lab123</i>
<i>srxD-2</i>	<i>d2</i>	<i>lab123</i>

#### NOTE:

Version 12 reset configs no longer have the forwarding-options set to packet-based by default and this may result in ping timeouts or non-response to LAN or directly connected devices. To resolve this, please add the configuration line below on your pod devices, then commit and reboot if prompted;

*set security forwarding-options family mpls mode packet-based*

#### Lab 3 step 1.12

Note that the radius authentication requires the user to be created on the srx before a request can be sent to the server for authentication during login attempt.

#### Lab 4 part 3

Step 3.2 Please skip this steps if you get the error below when trying to copy the image from the ftp server;

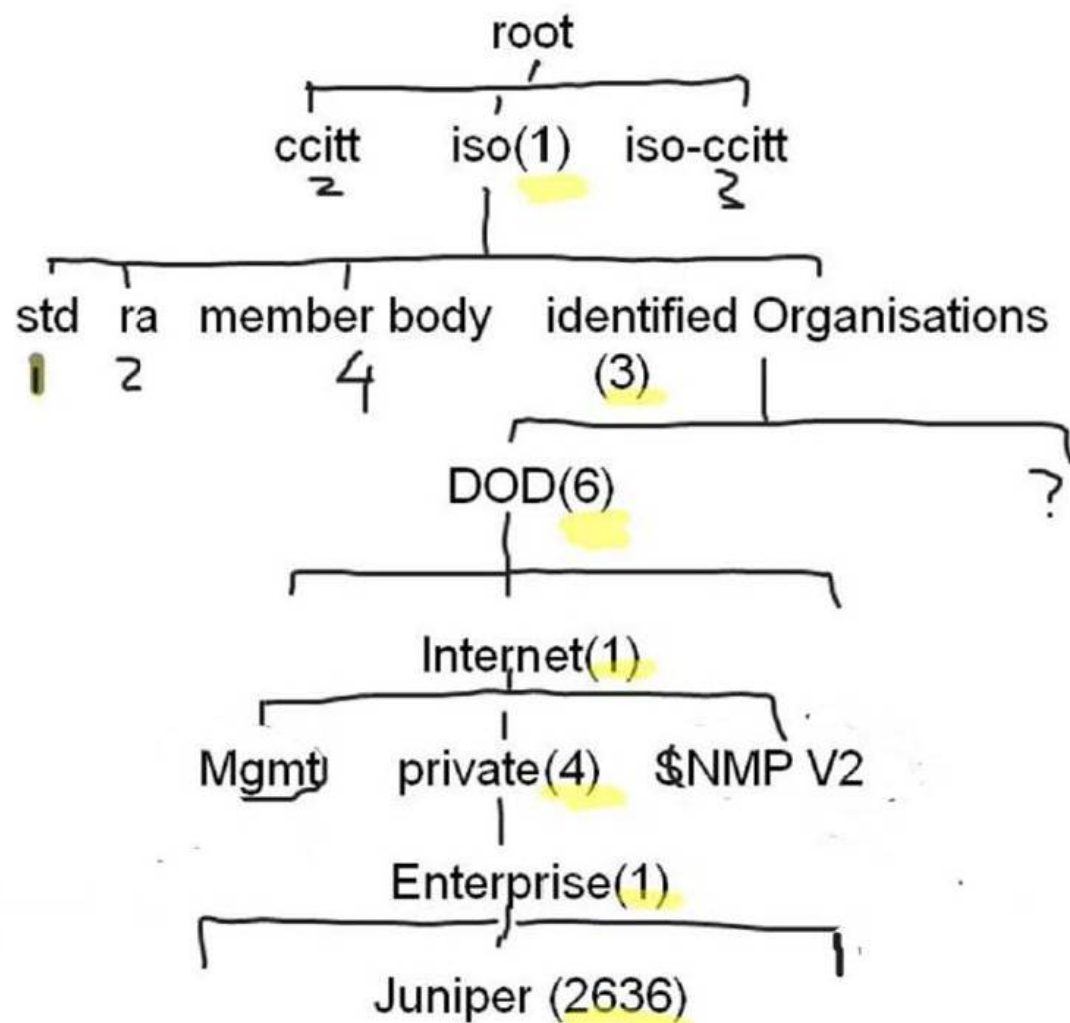
```
lcf/var: write failed, filesystem is full
/var/home/lab/...transferring.file.....oRd 22% of 136 MB 2573 kBps 00m40s
fetch-secure: /var/home/lab/...transferring.file.....oRdQCd/ junos-srxsme-12.1X44-D40.2-
domestic.tgz: No space left on device
error: file-fetch failed
error: could not fetch local copy of file
```

Please use any of the two solutions below for the upgrade:

**Solution 1:** Go straight to step 3.3 and check for the image

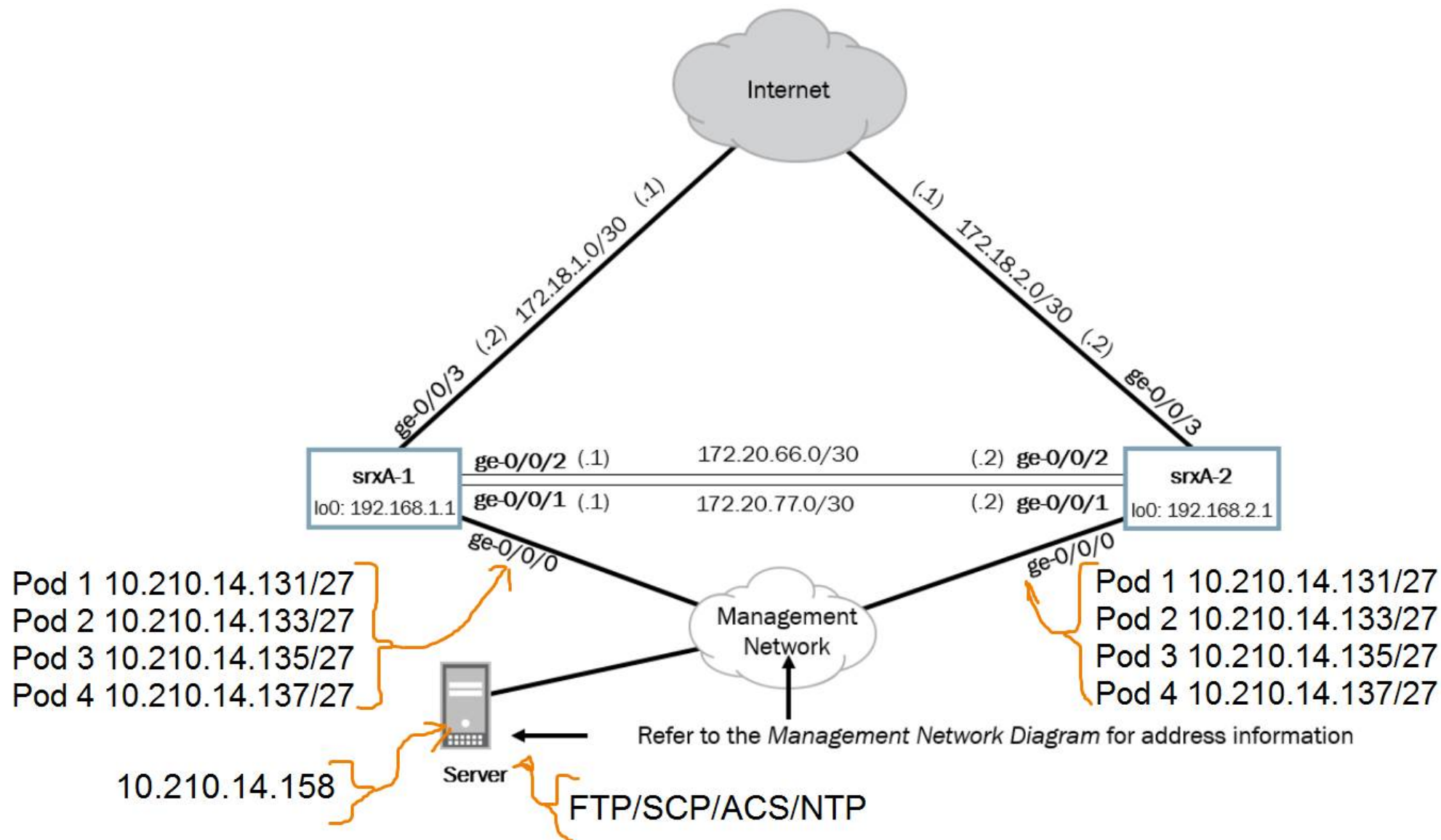
**Solution 2:** Use the command below to upgrade straight from the ftp server if solution 1 does not work;

```
request system software add ftp://ftp.ftp@10.210.14.158/junos-srxsme-12.1X44-D40.2-
domestic.tgz reboot
```



We will start Chapter 4 at or before 1:45

complete Lab 2 by 3:15 including coffee break



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