

Network Startup Resource Center

AfNOG 2012

Network Monitoring & Management

Instructors

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Schedule

Session I	09:00 – 10:30
Break	10:30 – 11:00
Session II	11:30 – 13:00
Lunch	13:00 – 14:00
Session III	14:00 – 16:00
Break	16:00 – 16:30
Session IV	16:30 – 18:00

Optional evening sessions

Agenda:

Monday	Торіс	
Session 1 Welcome, Introductions, Workshop Details		s
	Questionnaire	
Session 2	Introduction to Network Monitoring & Mgmt	
	Linux for VM Usage	
Session 3	Cisco Configuration Basics	
Session 4	SNMP	
Tuesday		
Session 1	SNMP Continued	
Session 2	MRTG / RRDTool	
Session 3	Cacti	
Session 4	Cacti Continued	
Wednesday		
Session 1	Nagios	
Session 2	Nagios Continued	
Session 3	SmokePing	Thursda
Session 4	Documentation, NOCs and Netdot Demo	Session 2
		Session 2

Thursday		
Session 1	Netdot continued	
Session 2	Version Control (RANCID / SVNWeb)	
Session 3	NetFlow	
Session 4	NetFlow / NfSen	
Friday		
Session 1	Log Management	
Session 2	Ticketing Systems (RT)	
Session 3	Ticketing Systems (Nagios / Cacti w/RT)	
Session 4	Exam, Evals, Certificates	

Administrative Items

Agenda / Course Materials

- Available in electronic format during the week:

http://noc.ws.nsrc.org/

– Will be available permanently here:

http://nsrc.org/workshops/2012/afnog-nme/ http://www.ws.afnog.org/

During the course

- Please ask questions as you have them.
- Your experiences are valuable. Please share them.
- The schedule is somewhat flexible.

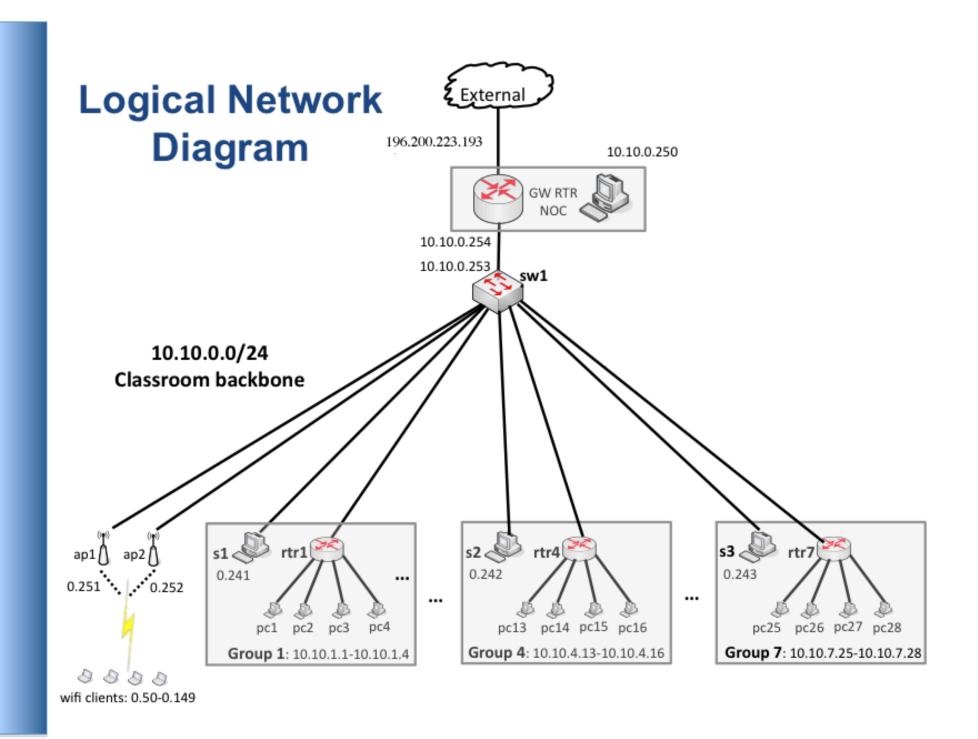
Virtual machine access

There are two users on your virtual machines (pc1-pc36)

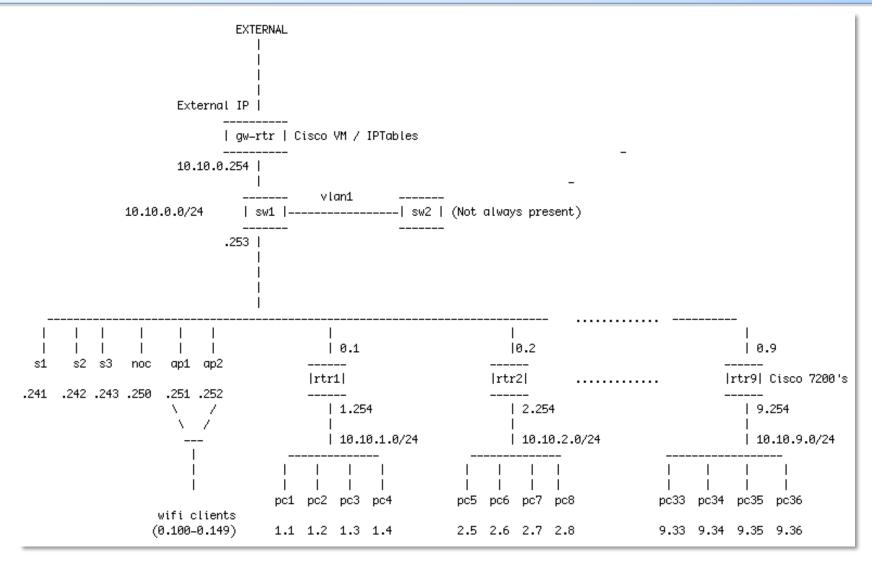
<u>General User</u> sysadm

Administrative User root

Passwords are or will be written down in class



Alternate Diagram



Available at http://noc.ws.nsrc.org/wikis/afnog-nme-2012/wiki/Diagram

Virtual machine groups

GROUP 1	GROUP 4	GROUP 7
rtr1 ==> 10.10.1.254	rtr4 ==> 10.10.4.254	rtr7 ==> 10.10.7.254
pc1 ==> 10.10.1.1	pc13 ==> 10.10.4.13	pc25 ==> 10.10.7.25
pc2 ==> 10.10.1.2	pc14 ==> 10.10.4.14	pc26 ==> 10.10.7.26
pc3 ==> 10.10.1.3	pc15 ==> 10.10.4.15	pc27 ==> 10.10.7.27
pc4 ==> 10.10.1.4	pc16 ==> 10.10.4.16	pc28 ==> 10.10.7.28
GROUP 2	GROUP 5	GROUP 8
rtr2 ==> 10.10.2.254	rtr5 ==> 10.10.5.254	rtr8 ==> 10.10.8.254
pc5 ==> 10.10.2.5	pc17 ==> 10.10.5.17	pc29 ==> 10.10.8.29
pc6 ==> 10.10.2.6	pc18 ==> 10.10.5.18	pc30 ==> 10.10.8.30
pc7 ==> 10.10.2.7	pc19 ==> 10.10.5.19	pc31 ==> 10.10.8.31
pc8 ==> 10.10.2.8	pc20 ==> 10.10.5.20	pc32 ==> 10.10.8.32
GROUP 3	GROUP 6	GROUP 9
rtr3 ==> 10.10.3.254	rtr6 ==> 10.10.6.254	rtr9 ==> 10.10.9.254
pc9 ==> 10.10.3.9	pc21 ==> 10.10.6.21	pc33 ==> 10.10.9.33
pc10 ==> 10.10.3.10	pc22 ==> 10.10.6.22	pc34 ==> 10.10.9.34
pc11 ==> 10.10.3.11	pc23 ==> 10.10.6.23	pc35 ==> 10.10.9.35
pc12 ==> 10.10.3.12	pc24 ==> 10.10.6.24	pc36 ==> 10.10.9.36

Select your group now

- 9 total (virtual) routers
- 4 (virtual) Ubuntu Linux server images per router.
 - 36 total virtual machine images

You will work in groups of 4 on some exercises. Please choose your location now.You will use your virtual machine during the whole week.

Questions

Do you have any questions?

