

SANOG 21

Cox's Bazar, Bangladesh

Network Monitoring & Management
Welcome



The logo for SANOG, consisting of the word "SANOG" in a bold, white, sans-serif font. The letters are closely spaced and set against a solid black rectangular background.

Instructors

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- Germany / Denmark

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Schedule

Session I	09:00 – 10:30
Break	10:30 – 11:00
Session II	11:00 – 13:00
Lunch	13:00 – 14:00
Session III	14:00 – 15:30
Break	15:30 – 16:00
Session IV	16:00 – 17:30+

Potential evening sessions. See Agenda for further details

Agenda:

Thursday	Topic	Instructor
Session 1	Welcome, Introductions, Workshop Details	ALL
	Questionnaire	
Session 2	Introduction to Network Monitoring & Mgmt	PR
Session 3	Linux for VM Usage	SB
	Cisco Configuration Basics	AL
Session 4	SNMP	FH
Friday		
Session 1	SNMP Continued	FH
Session 2	Cacti	PR
Session 3	Cacti Continued	PR
Session 4	SmokePing	FH

Saturday		
Session 1	Nagios	SB
Session 2	Nagios Continued	SB
Session 3	Documentation, NOCs and Netdot	AL
Session 4	Netdot continued	AL
Sunday		
Session 1	Version control RANCID / SVNWeb	PR
Session 2	Log Management	PR
Session 3	NetFlow / NfSen	GZ
Session 4	NetFlow / NfSen	GZ
Monday		
Session 1	Ticketing Systems (RT)	PR
Session 2	Ticketing Systems (Nagios / Cacti w/RT)	
Session 3	Exam, Evals, Certificates	

Administrative Items

- **Agenda**

- <http://noc.ws.nsrc.org/sanog21-nmm/wiki/Agenda>

- **During the course**

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

- **Course Materials**

- Available in electronic format during the week:

<http://noc.ws.nsrc.org/sanog21-nmm/>

- Will be available permanently here:

<http://nsrc.org/workshops/2013/sanog21-nmm/>

Virtual machine access

There are two users on your virtual machines (pc1-pc40)

General User

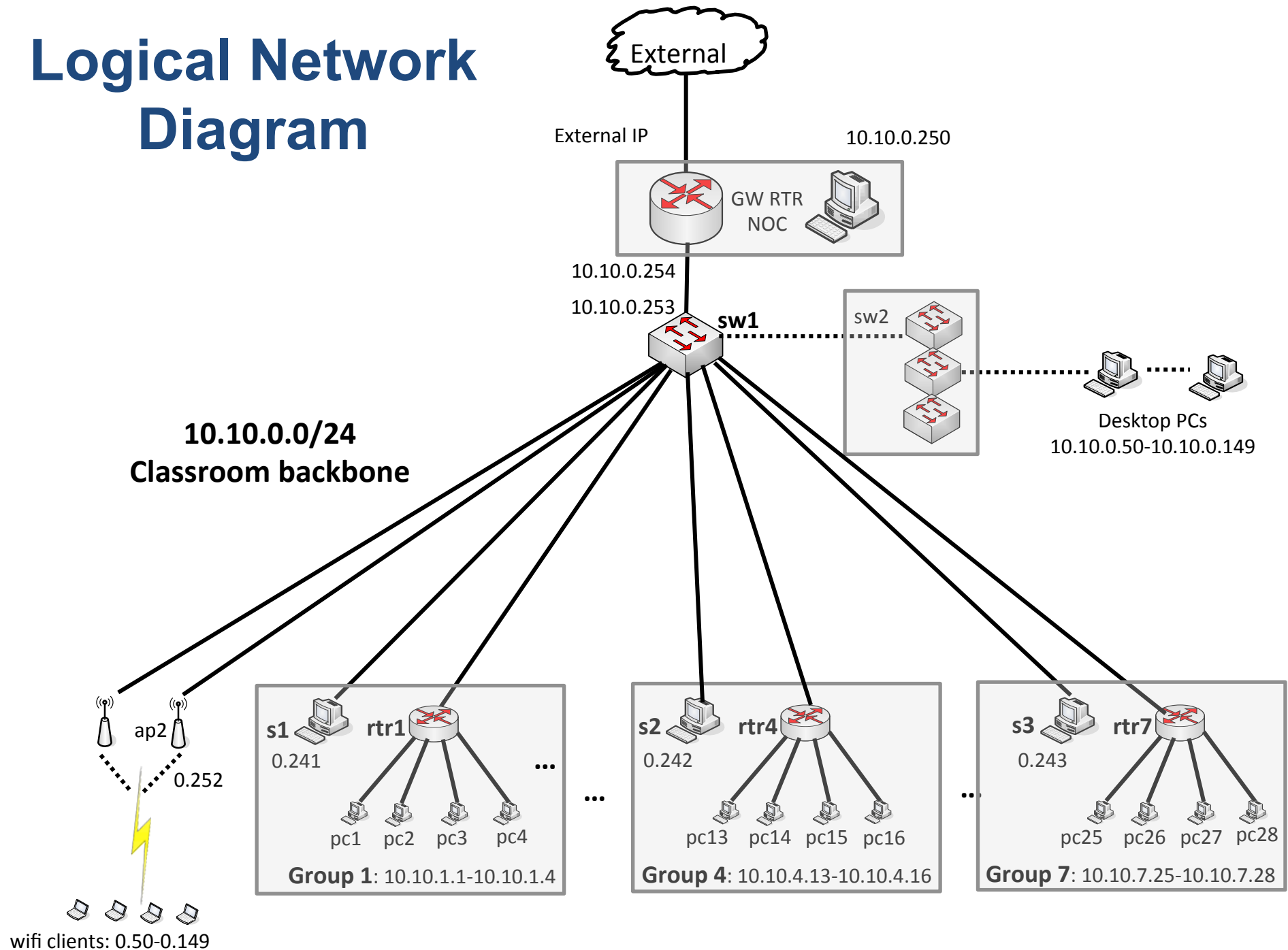
sysadm

Administrative User

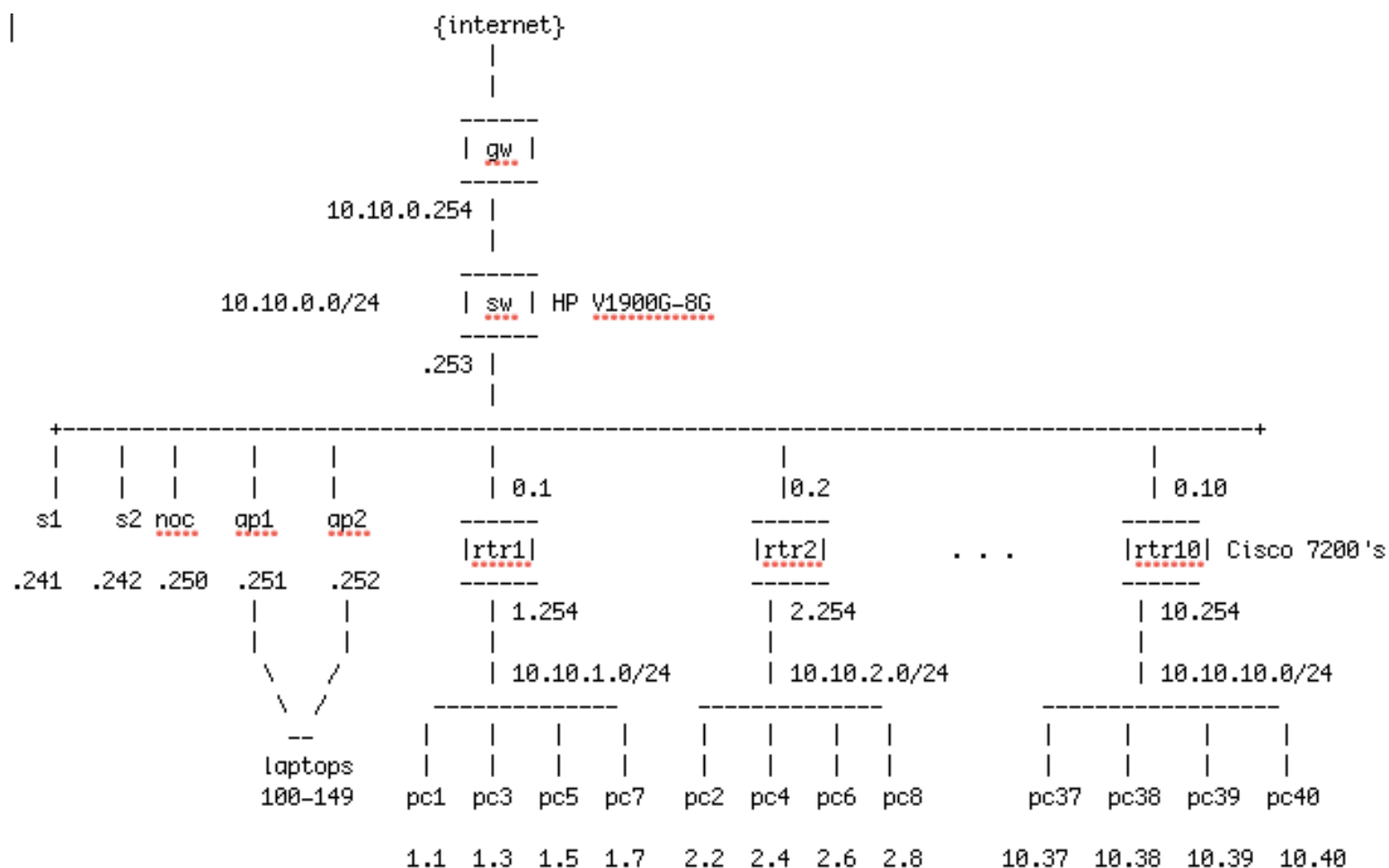
root

Passwords are or will be written down in class

Logical Network Diagram



Alternate Diagram



Available at <http://noc.ws.nsrc.org/sanog21-nmm/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?

