



Network Monitoring & Management

Welcome

Instructors

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Schedule

From tomorrow

Session I	09:00 – 10:45
Break	10:45 – 11:15
Session II	11:15 – 13:00
Lunch	13:00 – 14:00
Session III	14:00 – 15:45
Break	15:45 – 16:15
Session IV	16:15 – 18:00

Potential evening sessions Tue/Thu dependent on interest

Agenda:

MONDAY	Topic
Session 1	Welcome, Introductions, Workshop Details
	Questionnaire
Session 2	Introduction to Network Monitoring & Mgmt
Session 3	Linux for VM Usage
	Cisco Configuration Basics
Session 4	SNMP
TUESDAY	
Session 1	SNMP Continued
Session 2	Cacti
Session 3	Cacti and Q&A
	Observium Demo (possible)
Session 4	SmokePing
WEDNESDAY	
Session 1	Nagios
Session 2	Nagios Continued
Session 3	Documentation, NOCs and Netdot
Session 4	Netdot continued

THURSDAY	
Session 1	Version control RANCID / WebSVN
Session 2	Log Management
Session 3	NetFlow / NfSen
Session 4	NetFlow / NfSen labs
FRIDAY	
Session 1	Ticketing Systems (RT)
Session 2	Ticketing Systems (Nagios / Cacti w/RT)
Session 3	Exam, Evals, Certificates

Administrative Items

- **Agenda**
 - <http://wiki.ws.nsrc.org/>
- **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://wiki.ws.nsrc.org/>
 - Will be available permanently here:
<http://nsrc.org/workshops/2013/tznog/>

Virtual machine access

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

General User

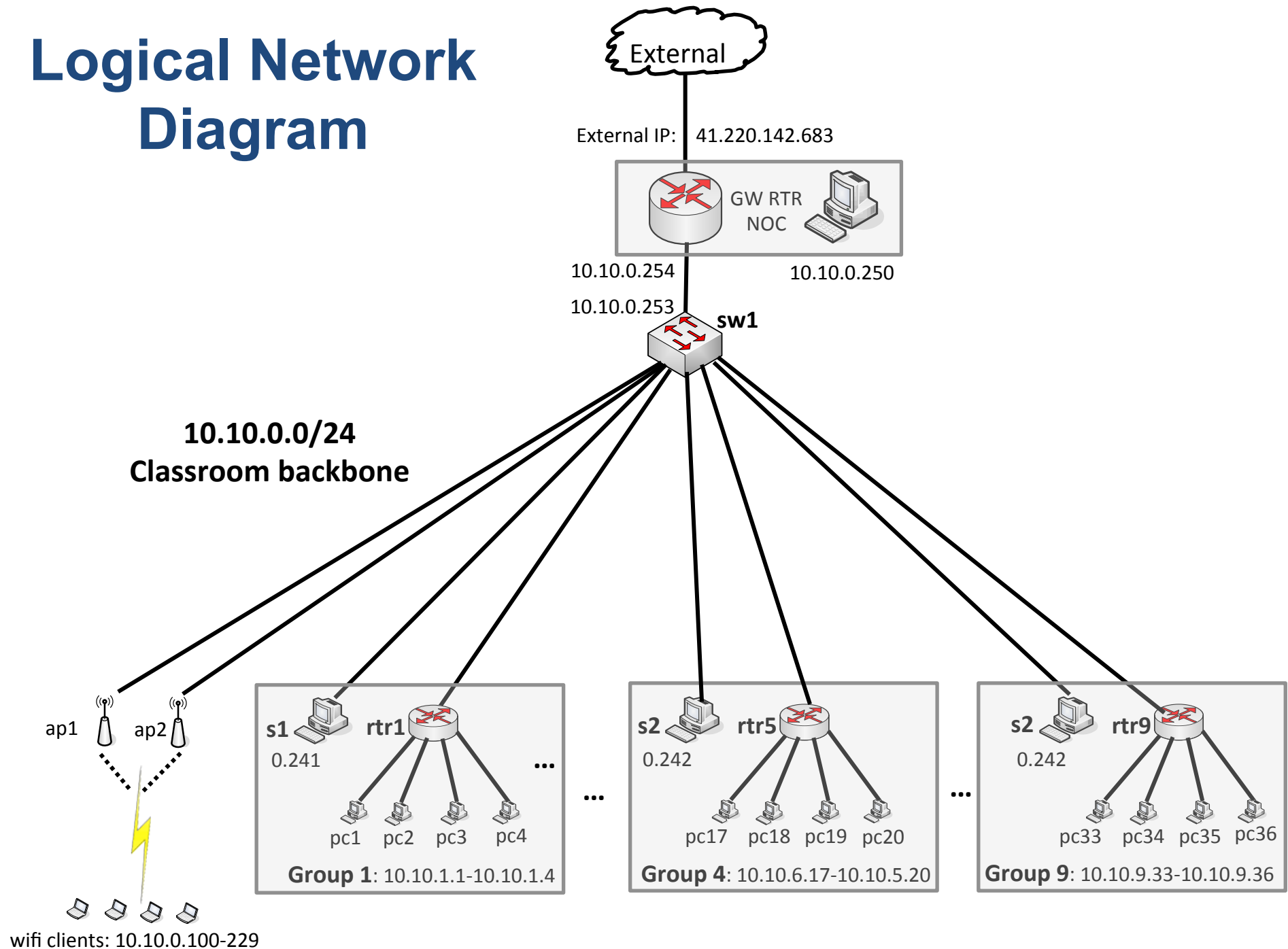
sysadm

Administrative User

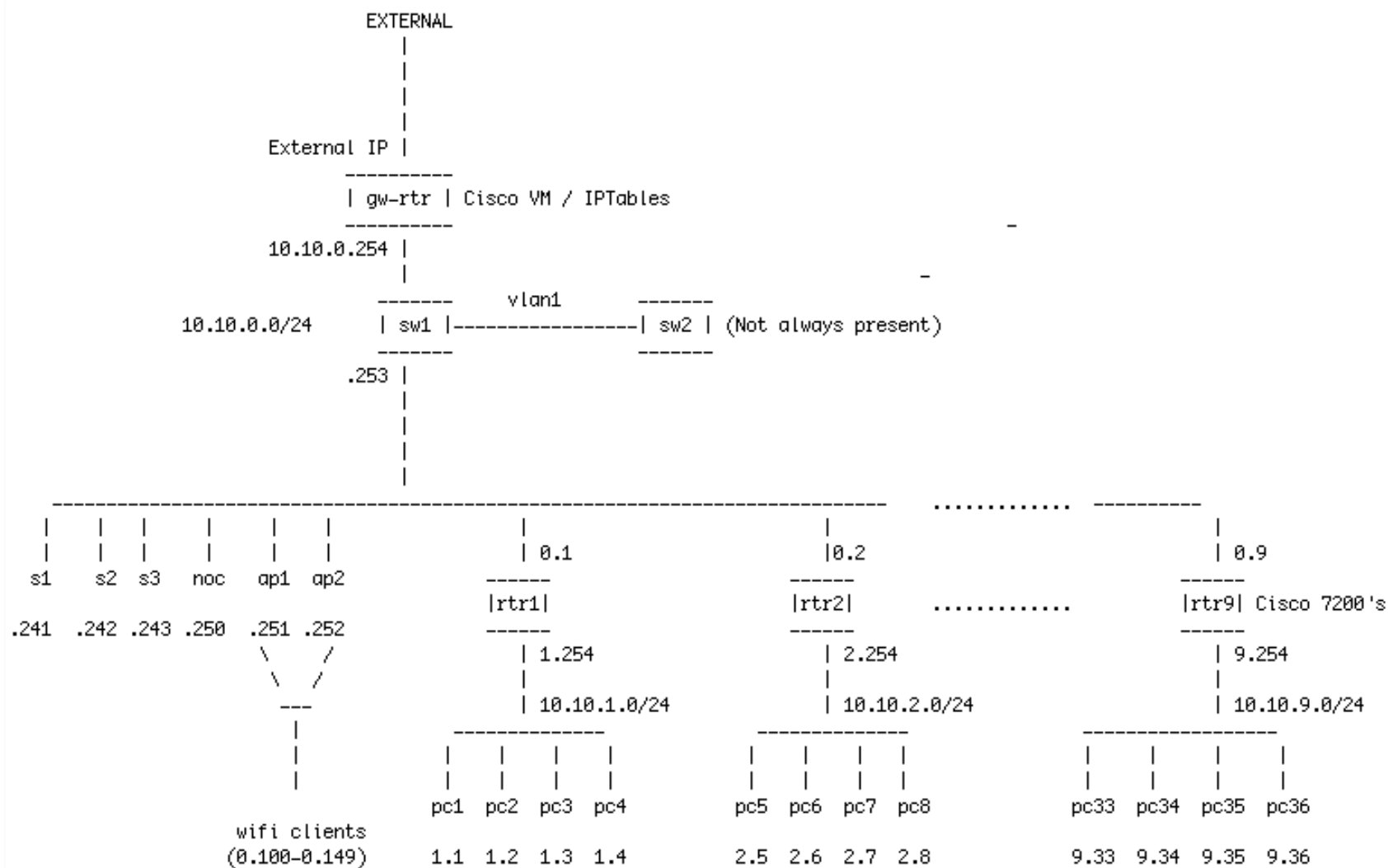
root

Passwords are or will be written down in class

Logical Network Diagram



Alternate Diagram



Available at <http://wiki.ws.nsrc.org/wikis/afnog-nme/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?

