



NSRC – TEIN4 NOC – AIT intERLab Workshop

Welcome

Instructors



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- United States / Chile



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- New Zealand



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TEIN*CC
- Korea / Singapore

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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 – 16:00
Break	16:00 – 16:15
Session IV	16:15 – 17:00
Session V	17:00 – 18:00
Dinner	18:00-19:00
EVENING	19:00+

Agenda:

MONDAY	Topic
Session 1	Welcome, Introductions and Workshop Details
	Intro to Network Management
Session 2	Linux for VM Usage
	Cisco Configuration
Session 3	SNMP
Session 4	Cacti
Session 5	TEIN Member Country Updates
TUESDAY	
Session 1	Observium Demo
	SmokePing Demo
Session 2	Nagios
Session 3	NetFlow
Session 4	NfSen
Session 5	TEIN Member Country Updates
Evening	SDN Demystified
WEDNESDAY	
Session 1	RANCID / WebSVN
Session 2	Log Management / Tenshi
	WebSVN
Session 3	perfSONAR Introduction
	perfSONAR Details
Session 4	perfSONAR Installation Lab
	perfSONAR Configuration
Session 5	TEIN Member Country Updates
Evening	ThaiREN SDN Experience

***Likely to adjust
somewhat during the
week...***

THURSDAY	
Session 1	perfSONAR test results review
	perfSONAR use scenarios
	perfSONAR and R/NRENs
Session 2	perfSONAR Host Considerations
	Host security with perfSONAR
Session 3	Open
Session 4	Ticketing with RT
FRIDAY	
Session 1	perfSONAR test results review
Session 2	Campus Network Design / Science DMZ
Session 3	Campus Network Design / Science DMZ
Session 4	Closing / Q&A
	Questionnaire
	Certificates

Administrative Items

Agenda

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

- Will be available permanently here:

<http://nsrc.org/workshops/2014/nsrc-tein-ait/>

Virtual machine access

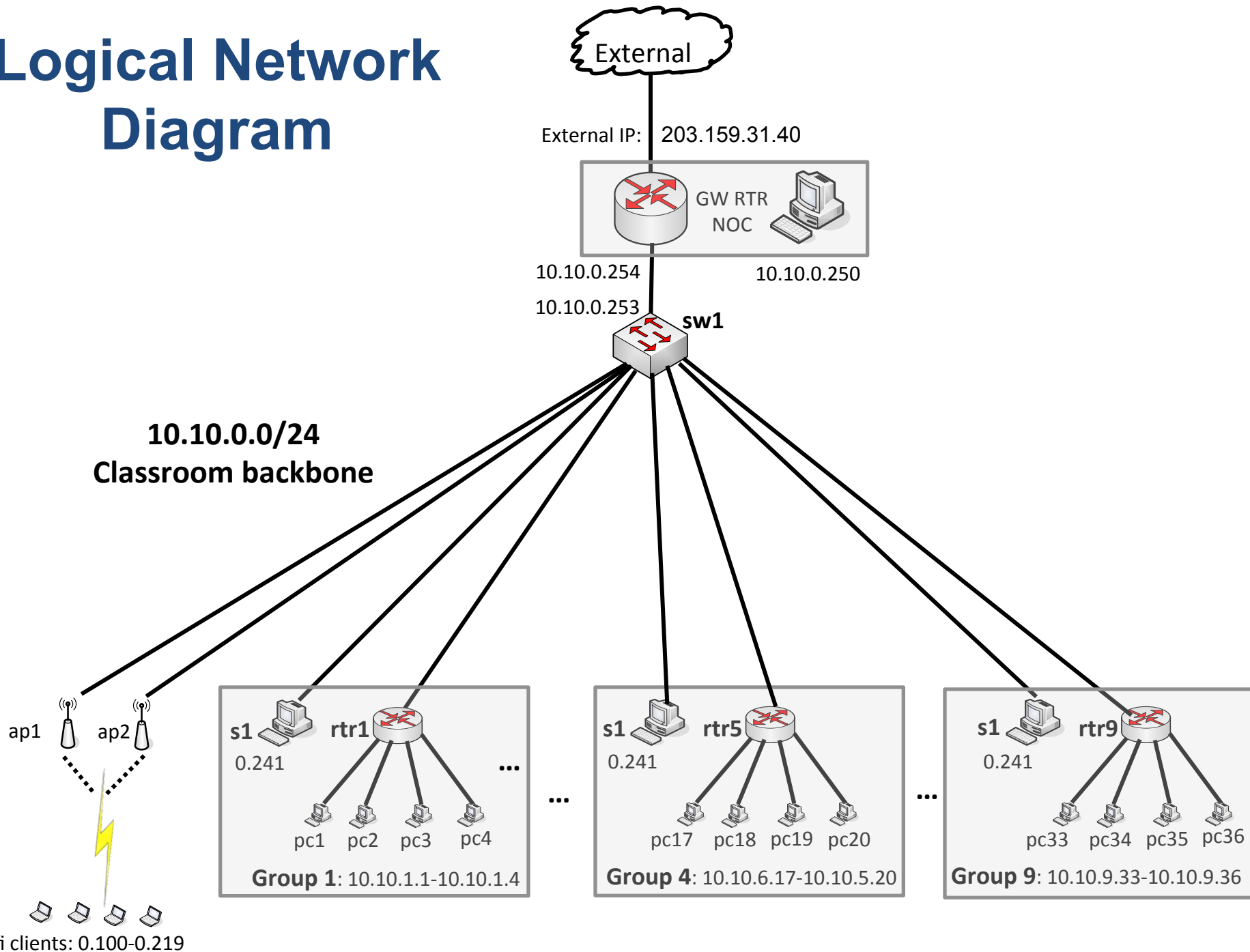
There are two users on your virtual machines (pc1-pc36)

General User
sysadm

Administrative User
root

Passwords are or will be written down in class

Logical Network Diagram



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?

