

Network Monitoring and Management Welcome

Network Startup Resource Center
www.nsrc.org



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Workshop Schedule

Session I	09:00 – 10:45
Break	10:45 – 11:00
Session II	11:00 – 12:45
Lunch	12:45 – 14:15
Session III	14:15 – 16:00
Break	16:00 – 16:15
Session IV	16:15 – 18:00

Please come on time. If we start late, we will end late.

We are considering condensing the weekend days. We'll discuss in class.

Workshop Instructors

Instructor	Country	Organisation
Phil Regnauld	France / Denmark	NSRC
Chris Elliott	USA	NSRC
Ferenc Csorba	Hungary / Austria	RIPE
Misak Khachatryan	Armenia	GNC-Alfa CJSC

Workshop Agenda

We are likely to
modify this agenda
as we go.

THURSDAY	Topic
Session 1	Welcome, Introductions, Workshop Details Questionnaire Introduction to Network Monitoring & Mgmt
Session 2	Cisco Configuration Basics Linux for VM Usage
Session 3	SNMP
Session 4	SNMP Continued Cacti Demo
FRIDAY	
Session 1	Cacti
Session 2	Cacti cont.
Session 3	SmokePing
Session 4	SmokePing cont. LibreNMS Demo
SATURDAY	
Session 1	LibreNMS Lab
Session 2	Nagios
Session 3	Nagios Cont.
Session 4	Nagios cont. Log Management

SUNDAY	
Session 1	Log Management Cont
Session 2	Version control RANCID / WebSVN
Session 3	NetFlow / NfSen
Session 4	NetFlow / NfSen labs NfSen cont.
MONDAY	
Session 1	Documentation, NOCs and Netdot Netdot Demo
Session 2	Ticketing Systems (RT)
Session 3	Ticketing Systems (Nagios / Cacti w/RT)
Close	Exam, Evals, Certificates Workshop End - Certificate Ceremony

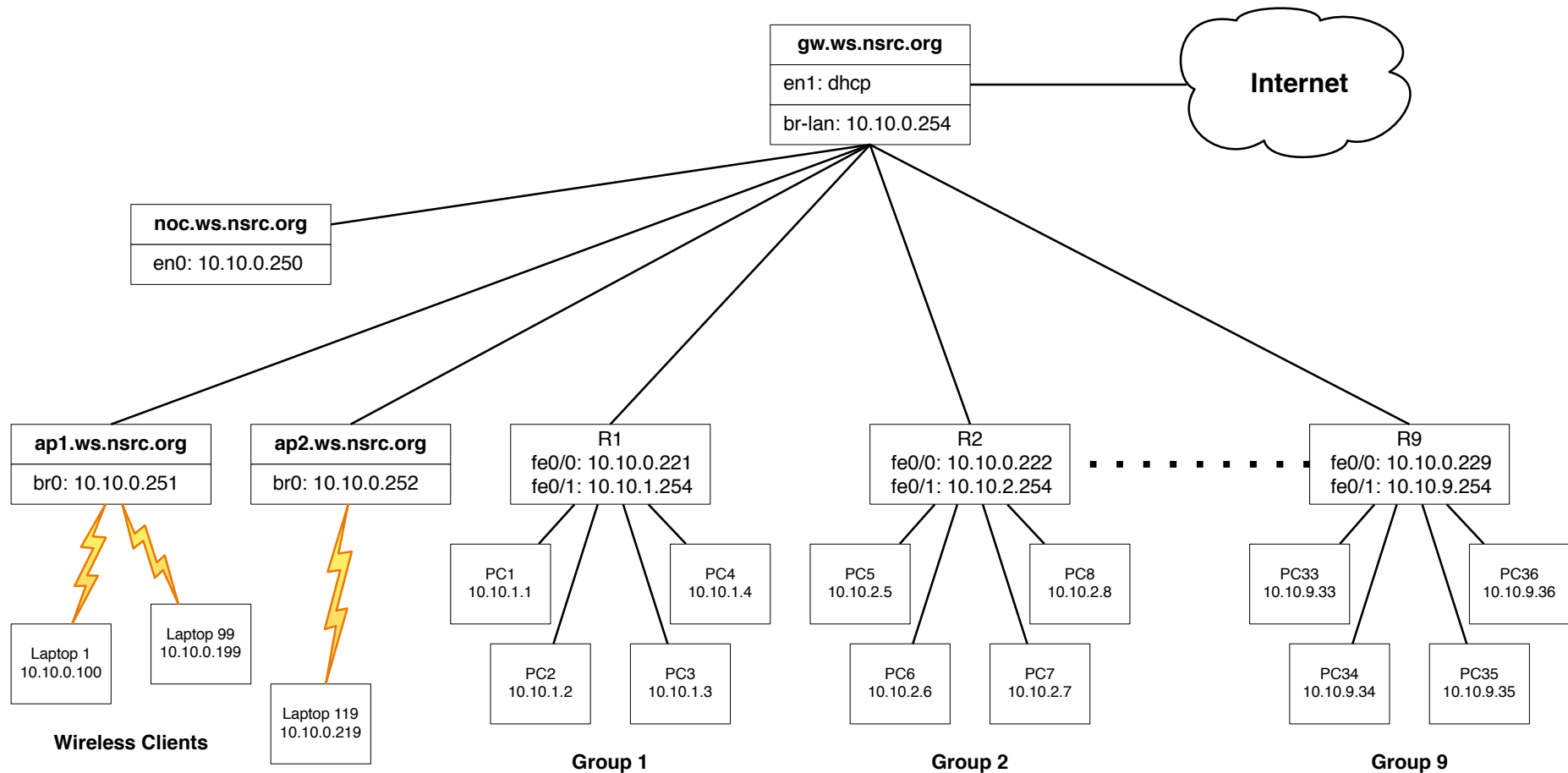
Administrative Items

- 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
 - <http://noc.ws.nsrc.org/>
 - Will be available permanently here:
 - <http://nsrc.org/workshops/2015/ripe-nsrc-nmm>

Virtual Machine Access

- There are 36 Virtual Machines: pc1-pc36
- Each has two users:
 - General User: sysadm ← “s y s a d m”
 - Administrative User: root
- Password for sysadm is written on the board.

Network Diagram



Virtual Machine Groups

GROUP 1	GROUP 2	GROUP 3	GROUP 4
rtr1 → 10.10.1.254	rtr1 → 10.10.2.254	rtr1 → 10.10.3.254	rtr4 → 10.10.4.254
pc1 → 10.10.1.1	pc5 → 10.10.2.5	pc9 → 10.10.3.9	pc13 → 10.10.4.13
pc2 → 10.10.1.2	pc6 → 10.10.2.6	pc10 → 10.10.3.10	pc14 → 10.10.4.14
pc3 → 10.10.1.3	pc7 → 10.10.2.7	pc1 1 → 10.10.3.11	pc15 → 10.10.4.15
pc4 → 10.10.1.4	pc8 → 10.10.1.8	pc12 → 10.10.3.12	pc16 → 10.10.4.16

P 5	GROUP 6	GROUP 7	GROUP 8	GROU
0.5.254	rtr6 → 10.10.6.254	rtr7 → 10.10.7.254	rtr8 → 10.10.8.254	rtr9 → 10
10.5.17	pc21 → 10.10.6.21	pc25 → 10.10.7.25	pc29 → 10.10.8.29	pc33 → 1
10.5.18	pc22 → 10.10.6.22	pc26 → 10.10.7.26	pc30 → 10.10.8.30	pc34 → 1
10.5.19	pc23 → 10.10.6.23	pc27 → 10.10.7.27	pc31 → 10.10.8.31	pc35 → 1
10.5.20	pc24 → 10.10.6.24	pc28 → 10.10.7.28	pc32 → 10.10.8.32	pc36 → 1

We will assign PCs & Groups Now

- 9 total (virtual) routers
- 4 (virtual) 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 all week

Questions

Please Ask Questions At Any Time!
Like you may start now....
?