



MARWAN



Network Monitoring & Management Welcome

Instructors

Brian Candler

Network Startup Resource Center
England

Steven Huter

Network Startup Resource Center
USA

Andy Linton

Network Startup Resource Center
New Zealand

Phil Regnauld

Network Startup Resource Center
France / Denmark

Dale Smith

Network Startup Resource Center
USA

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 – 18:00

Administrative Items

- **Agenda**
 - <http://noc.ws.nsrc.org/marwan-nsrc-nmm-sec/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/marwan-nsrc-nmm-sec/>
 - Will be available permanently here:
<https://nsrc.org/workshops/2012/marwan-nsrc-nmm-sec/>

Virtual machine access

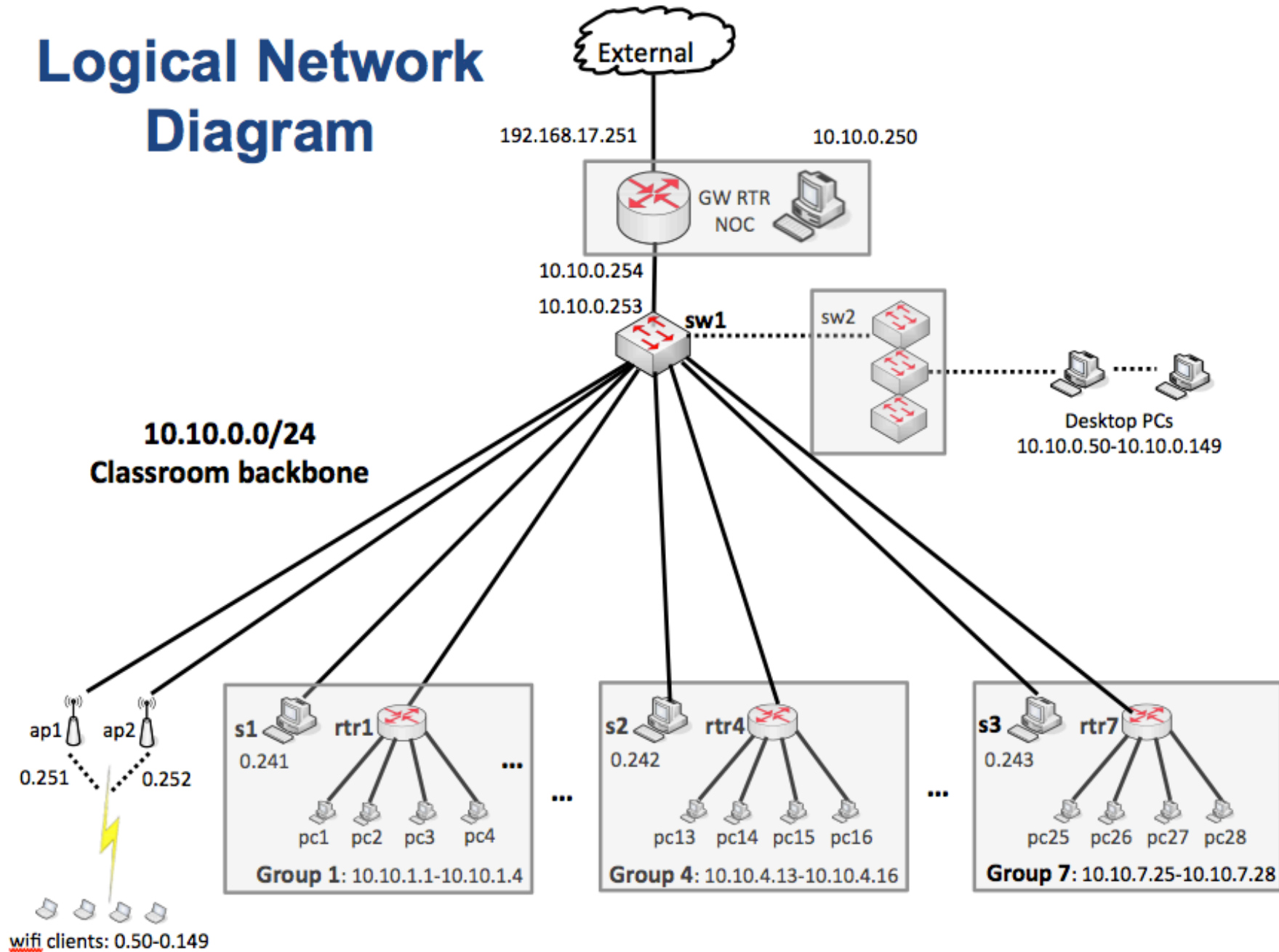
There are two users on your virtual machines (pc1-pc36)

General User
sysadm

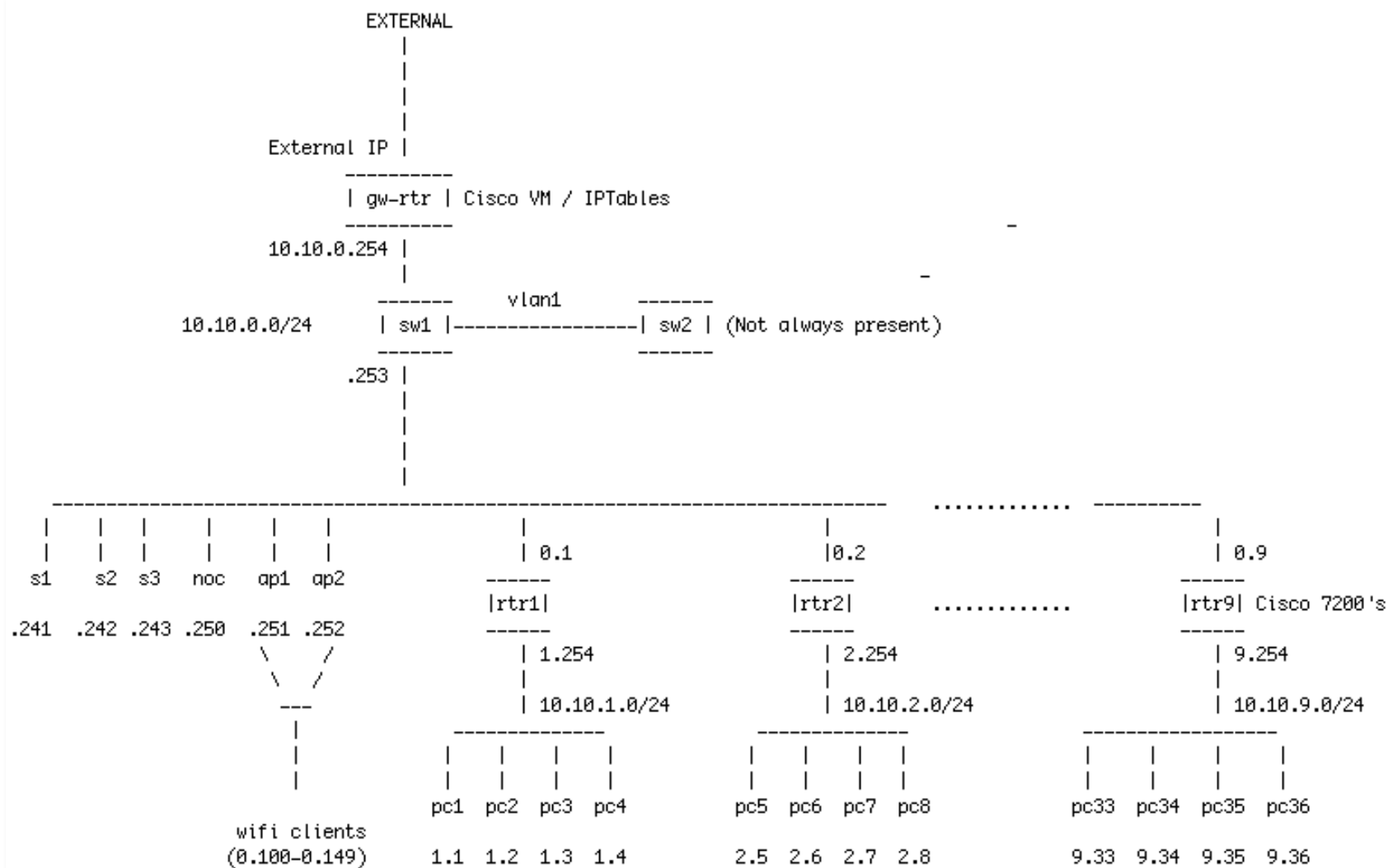
Administrative User
root

Passwords are or will be written down in class

Logical Network Diagram



Alternate Diagram



Available at <http://noc.ws.nsrc.org/marwan-nsrc-nmm-sec/wiki/NetworkDiagram>

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?

