Cloud / Virtualization Workshop

SANOG 23
Thimphu, Bhutan
January 17-21, 2014
Welcome

Instructors

- Brian Candler   United Kingdom
        (Network Startup Resource Center

- GZ Kabir   Bangladesh
        (BD Com)

- Phil Regnauld   France/Denmark
        (Network Startup Resource Center

Schedule – 5 day course

- Session 1   09:00 – 10:30
  Break   10:30 – 11:00
- Session 2   11:30 – 13:00
  Lunch   13:00 – 14:00
- Session 3   14:00 – 15:30
  Break   15:30 – 16:00
- Session 4   16:00 – 17:30

Overview and objectives

- See http://noc.ws.nsrc.org/wiki/Agenda

- This track will provide an overview of virtualization technology with a series of hands-on practical exercises, so that participants will be able to:

  - Build desktop virtualization with VirtualBox

  - Build server virtualization with KVM and libvirt

  - Use file and block shared storage and live VM migration

  - Build redundant VM clusters with Ganeti

  - Learn about public cloud providers, services

Accessing the wireless network

- Network Access:
  - SSID: NSRC24 or NSRC5
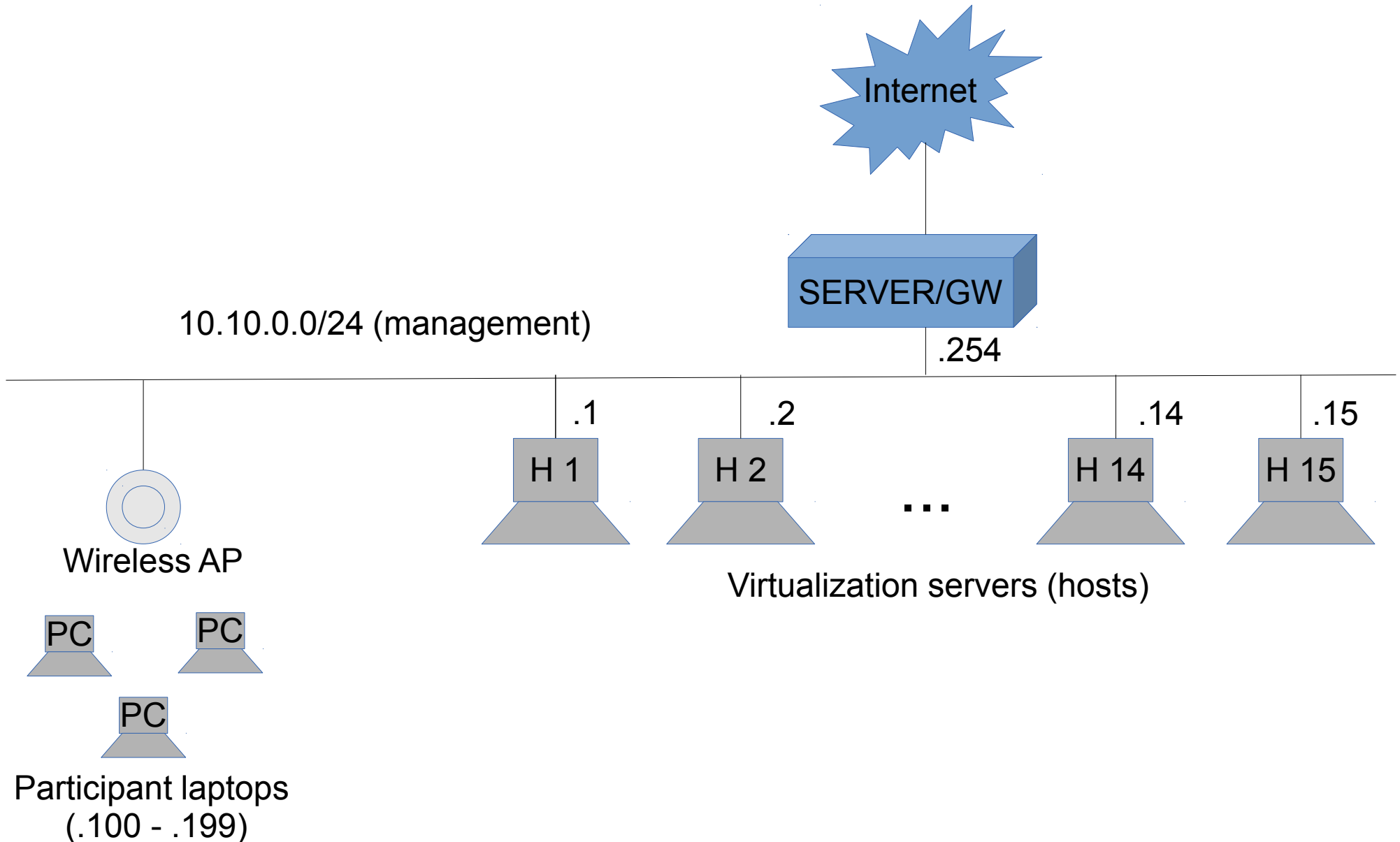 - WPA key given in class

Administrative items

- Course agenda
  - http://noc.ws.nsrc.org/
- During the workshop
  - Please ask questions as you go, don't wait
  - Your feedback and experiences are valuable, please share them!
  - We can adjust the schedule
- Course Materials
  - Available in electronic format http://noc.ws.nsrc.org/
  - Permanently archived at:
    http://nsrc.org/workshops/2014/sanog23-virtualization

User accounts

- We will be working with two user accounts:
    - A general, low privilege user: *nsrc*
    - A user with administrative privileges: *root*

- You will be told which passwords to use during class.

Workshop topology

Internet

SERVER/GW

10.10.0.0/24 (management)

.254

.1   .2   .14   .15

H 1   H 2   ...   H 14   H 15

Wireless AP

Virtualization servers (hosts)

PC   PC

PC

Participant laptops
(.100 - .199)

Teams and Groups

- You will work in teams of 2 people per virtualization host

- One person at a time will do the typing and interacting on the console (keyboard

  - but everyone will have hands-onlabs by accessing the virtualization hosts and virtual machine using SSH

- Later, we will join the Teams in Groups of 2 machines (more on this later)

Questions

- If you have any questions, now is the time!