Cloud – Virtualization Workshop Welcome

Network Startup Resource Center www.nsrc.org



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INTRODUCTIONS

- Pick a partner at random someone you don't know.
 One of you will be A and the other will be B
- Task 1 to be carried out by A: spend about 5 minutes talking to your partner with a view to giving a thumbnail sketch of him/her to the group. You might want to find out about interests and hobbies, personality, or anything else that interests you, and that your partner is willing to tell you.
- Make notes and use them as a basis for introducing your partner to the group
- Task 2 to be carried out by B: Repeat the task as above, but with the roles reversed





Quick poll. Raise your hand if your laptop's operating system is:

- Windows?
- OSX?
- Linux Ubuntu/Debian?
- Linux RedHat/CentOS?
- Other?





Quick poll. Raise your hand if...

- You have ever installed or managed any kind of virtualization software?
- You use any kind of public cloud?
- You run virtualization with any production workload?
- You plan to build or grow an in-house VM environment?
- You plan to deploy to a third-party cloud?





Quick poll. Raise your hand if...

- You regularly manage Linux systems using the command line and SSH?
 - Ubuntu/Debian ?
 - RedHat/CentOS ?
 - Other?
- You regularly administer Windows servers?





Schedule – Thursday – Monday

Session 1 09:30 – 11:00

Break 11:00 – 11:30

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

http://www.ws.nsrc.org/wiki/Track2Virt

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





Administrative items

Course agenda

http://www.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://www.ws.nsrc.org/
- Permanently archived at https://nsrc.org/workshops/2016/sanog27



Accessing the wireless network

Network Access:

- **SSID**: NSRC24 or NSRC5
- WPA key given in class
- There are resources on private IP addresses which you can only get to on this network





User accounts

We will be working with two user accounts:

- general user: nsrc

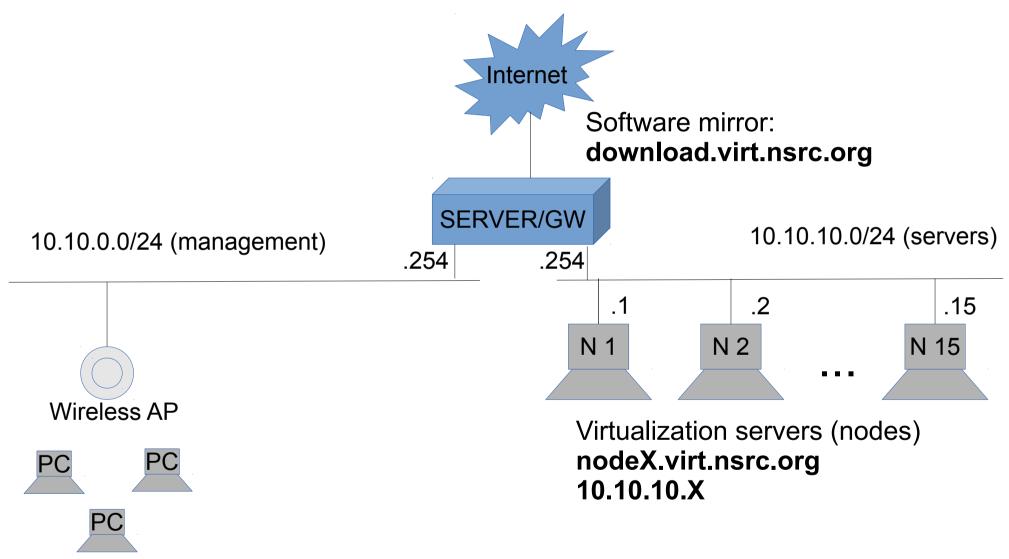
- administrative "superuser": root

You will be told which passwords to use during class.





Workshop topology



Participant laptops (.100 - .219)

Teams and Groups

- Work in teams of 2 people per virtualization host
- One person at a time on the keyboard
 - everyone will have hands-on labs by accessing the virtualization hosts and virtual machines using SSH
- We will join the Teams in Groups of 3 or 4 machines (more on this later)





Questions

If you have any questions, now is the time!





