Welcome

Network Monitoring, Management and Automation

npNOG 5

Dec 8 - 12, 2019



Workshop Schedule

Schedule	Time
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

Workshop Instructors

Name	Organization	Country
Chatur Ratna Shakya	PCH	Nepal
Dibya Khatiwada	PCH	Nepal
Srijan Bhuju	Worldlink	Nepal
Ritesh Adhikari	Workalaya	Nepal

Workshop Participants Introduction

- Name
- Organization
- Position / Field of work
- Brief work overview
- Reason for joining workshop
- Expected outcome from the event

Workshop Agenda

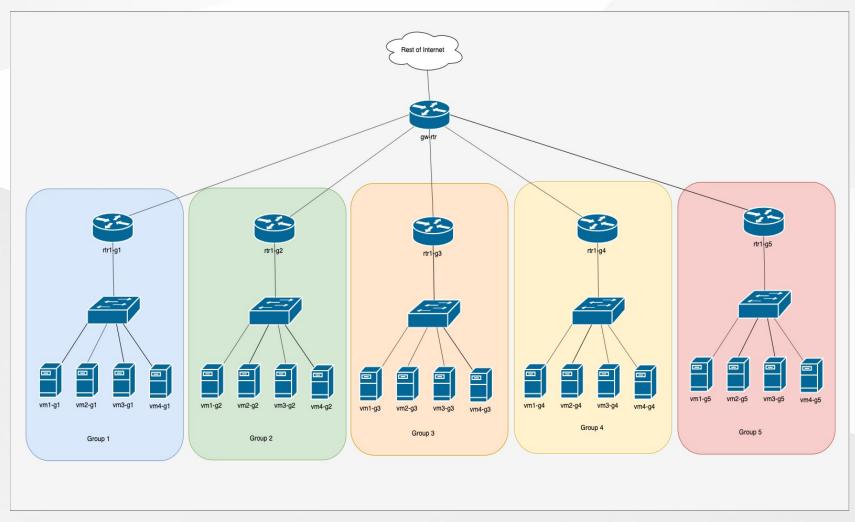
Agenda / Course Materials

http://www.lab.workalaya.net/

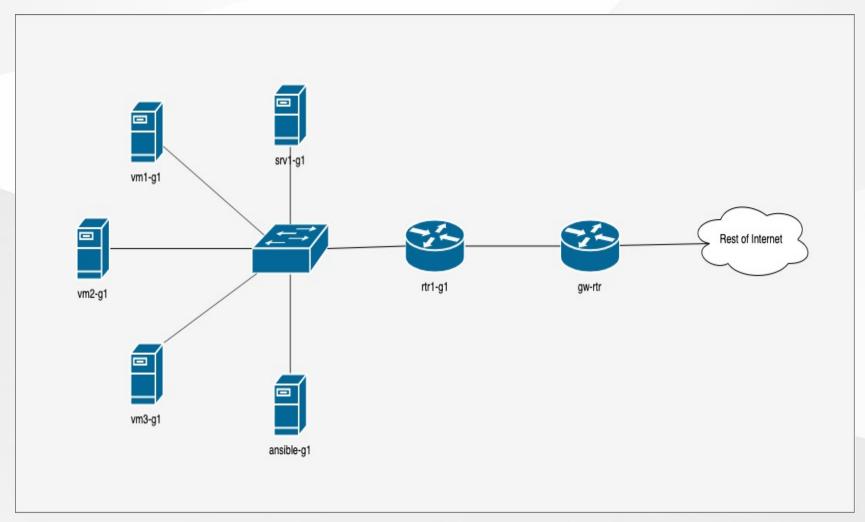
During the workshop

- Show Briefing Slides
- Please ask questions as you have them.
- Your experiences are valuable. Please share them.
- The schedule is somewhat flexible.

Network Diagram Overview



Group 1 Network Diagram



Single Group Detail

Services

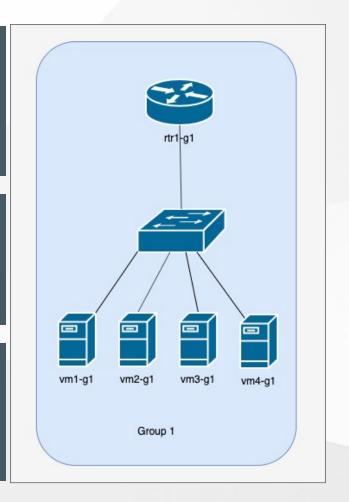
DNS: 100.68.100.244 100.68.100.245

apt-cacher: 100.68.100.254

Network Devices

gw-rtr.lab.workalaya.net: 100.68.100.254 rtr1.lab.workalaya.net: 100.68.100.1

```
Group Servers
-----
srv1-g1.lab.workalaya.net: 100.68.1.254
vm[1..6]-g1.lab.workalaya.net: 100.68.1.2[1..6]
ansible-g1.lab.workalaya.net: 100.68.1.253
```



Group Details

Group 1		Group 2		Group 3	
vm1-g1.lab.workalaya.net vm2-g1.lab.workalaya.net vm3-g1.lab.workalaya.net srv1-g1.lab.workalaya.net	100.68.100.1 100.68.1.21 100.68.1.22 100.68.1.23 100.68.1.254 100.68.1.253	rtr1-g2.lab.workalaya.net vm1-g2.lab.workalaya.net vm2-g2.lab.workalaya.net vm3-g2.lab.workalaya.net srv1-g2.lab.workalaya.net ansible-g2.lab.workalaya.net	100.68.100.2 100.68.2.21 100.68.2.22 100.68.2.23 100.68.2.254 100.68.2.253	rtr1-g3.lab.workalaya.net vm1-g3.lab.workalaya.net vm2-g3.lab.workalaya.net vm3-g3.lab.workalaya.net srv1-g3.lab.workalaya.net ansible-g3.lab.workalaya.net	100.68.100.3 100.68.3.21 100.68.3.22 100.68.3.23 100.68.3.254 100.68.3.253
Group 4		 Group 5		 Group 6	
vm1-g4.lab.workalaya.net vm2-g4.lab.workalaya.net vm3-g4.lab.workalaya.net srv1-g4.lab.workalaya.net	100.68.100.4 100.68.4.21 100.68.4.22 100.68.4.23 100.68.4.254 100.68.4.253	rtr1-g5.lab.workalaya.net vm1-g5.lab.workalaya.net vm2-g5.lab.workalaya.net vm3-g5.lab.workalaya.net srv1-g5.lab.workalaya.net ansible-g5.lab.workalaya.net	100.68.100.5 100.68.5.21 100.68.5.22 100.68.5.23 100.68.5.254 100.68.5.253	rtr1-g6.lab.workalaya.net vm1-g6.lab.workalaya.net vm2-g6.lab.workalaya.net vm3-g6.lab.workalaya.net srv1-g6.lab.workalaya.net ansible-g6.lab.workalaya.net	
Group 7	Group 8		 Group 9		
vm1-g7.lab.workalaya.net vm2-g7.lab.workalaya.net vm3-g7.lab.workalaya.net srv1-g7.lab.workalaya.net	100.68.100.7 100.68.7.21 100.68.7.22 100.68.7.23 100.68.7.254 100.68.7.253	rtr1-g8.lab.workalaya.net vm1-g8.lab.workalaya.net vm2-g8.lab.workalaya.net vm3-g8.lab.workalaya.net srv1-g8.lab.workalaya.net ansible-g8.lab.workalaya.net	100.68.100.8 100.68.8.21 100.68.8.22 100.68.8.23 100.68.8.254 100.68.8.253	rtr1-g9.lab.workalaya.net vm1-g9.lab.workalaya.net vm2-g9.lab.workalaya.net vm3-g9.lab.workalaya.net srv1-g9.lab.workalaya.net ansible-g9.lab.workalaya.net	
Group 10	 	Group 11		Group 12	
rtr1-g10.lab.workalaya.net vm1-g10.lab.workalaya.net vm2-g10.lab.workalaya.net vm3-g10.lab.workalaya.net srv1-g10.lab.workalaya.net ansible-g10.lab.workalaya.net	100.611.100.10 100.611.10.21 100.611.10.22 100.611.10.23 100.611.10.254 100.611.10.253	rtr1-g11.lab.workalaya.net vm1-g11.lab.workalaya.net vm2-g11.lab.workalaya.net vm3-g11.lab.workalaya.net srv1-g11.lab.workalaya.net ansible-g11.lab.workalaya.net	100.611.100.11 100.611.11.21 100.611.11.22 100.611.11.23 100.611.11.254	rtr1-g12.lab.workalaya.net rm1-g12.lab.workalaya.net vm2-g12.lab.workalaya.net vm3-g12.lab.workalaya.net srv1-g12.lab.workalaya.net ansible-g12.lab.workalaya.net	



We will assign VMs & Groups Now

- 1 transit routers (gw-rtr)
- 12 border routers (rtr1-gY)
- 60 virtual servers
 - 1 server per user (vmX-gY)
 - 1 shared server per group (srv1-gY)
 - 1 shared ansible controller server per group (ansiblegY)
- 1. You will work in groups of 3-6 on some exercises
- 2. Please choose your location for the week now
- 3. You will use your group's virtual machines all week

Virtual Machine Access

- There are 60 Virtual Machines:
 - vmX-gY.lab.workalaya.net
 - srv1-gY.lab.workalaya.net
 - ansible-gY.lab.workalaya.net
- Each virtual machine has two users:
 - General user: *lab*
 - Administrative user: root
- Password for lab is written on the board
- Ansible Controller VM has different set of users:
 - General users: vmX-gY
 - eg: if participant is assigned vm1-g1.lab.workalaya.net
 then his/her login to ansilbe vm will be vm1-g1
 - Password will be same as lab user

Router Access

- There are 12 routers:
 - rtr1-gY.lab.workalaya.net
- Each router has one users:
 - General user: *lab*
- Password for lab and Secret for enable comand are written on the board

Questions

Please Ask Questions At Any Time

Feel free to ask questions at any time!

