DNSSEC
hands-on workshop

Welcome!

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Goals of this workshop

- Learn about the principles behind the DNS security extensions, the new record types and options

- Learn to set up DNSSEC validation on multiple software platforms

- Get hands-on experience with DNSSEC signing tools and practices, including key rollover

- Get tips and hints on key management, infratstructure security, and more

Who we are

- John Crain - ICANN
- Steve Crocker- ICANN
- Andy Linton - NSRC
- Olaf Kolkman - NLnet Labs

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Daily time table

- **Session 1 09:00 - 10:30**
- **Break   10:30 - 11:00**
- **Session 2 11:00 - 12:30**
- **Lunch   12:30 - 13:30**
- **Session 3 13:30 - 15:00**
- **Break   15:00 - 15:30**
- **Session 4 15:30 - 17:30**

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Classroom details

You are all system administrators.

You are in charge of your servers

To make our lives easier please consider:

- Not changing your **root** or **adm** user passwords during the week.

- Not reconfiguring other attendees' machines…

- Practice using the `sudo` command instead of working as *root.*

This is a virtual environment!

DNS – DNSSEC Workshop: NETWORK LAYOUT
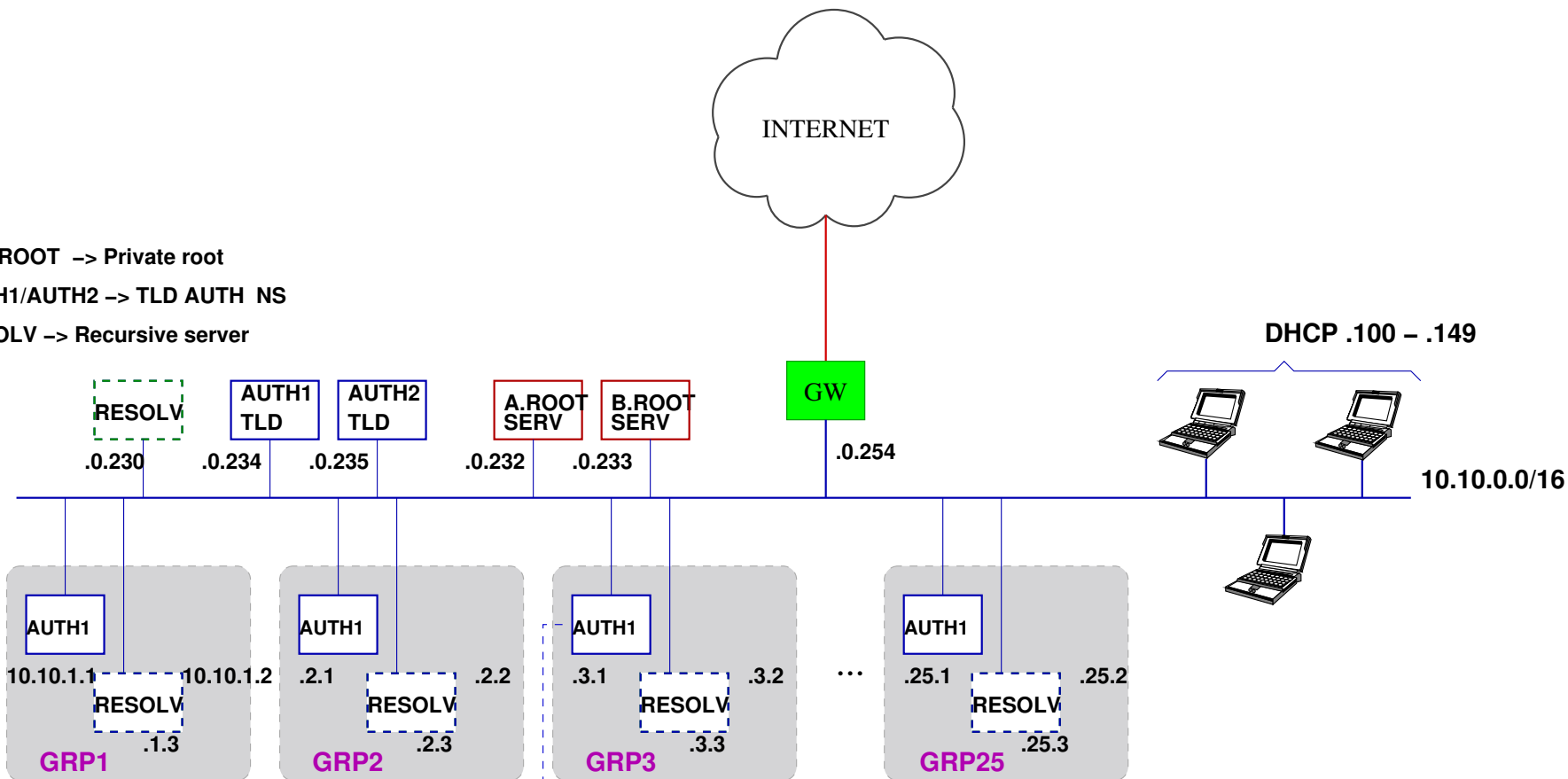
login: adm
pass: *given in class*

INTERNET

A./B.ROOT –> Private root

AUTH1/AUTH2 –> TLD AUTH NS

RESOLV –> Recursive server

DHCP .100 – .149

RESOLV	AUTH1 TLD	AUTH2 TLD	A.ROOT SERV	B.ROOT SERV	GW
.0.230	.0.234	.0.235	.0.232	.0.233	.0.254

10.10.0.0/16

GRP1
AUTH1
10.10.1.1   10.10.1.2
RESOLV   .1.3

GRP2
AUTH1
.2.1   .2.2
RESOLV   .2.3

GRP3
AUTH1
.3.1   .3.2
RESOLV   .3.3

...

GRP25
AUTH1
.25.1   .25.2
RESOLV   .25.3

DNS domain: **WS.NSRC.ORG.**

AUTH1   –> main host – runs BIND9.9, and all other tools for monitoring

RESOLV –> validating recolver – BIND9.9

AUTH1 . GRP3 . WS.NSRC.ORG.
10.10.3.1

A few conventions…

In the exercises:

- If you see a "$" then execute the command as a regular user (*adm* user).

- If you see a "#" then you should use `sudo` to execute the command as the *root* user. You do not need to use `sudo` if you already are root!

- There *will* be a (very, very) few typos. Be on the lookout and let us know!

- Some exercises *do not* give you all the steps! This is on purpose to let you apply newly found skills ☺

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Our wiki and noc

- Diagrams, presentations, schedules, photos, machine information and much will be available on

  https://nsrc.org/workshops/2013/nsrc-ait-th-dnssec/

- Passwords will be given in class.

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Questions?

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