DNSSEC

hands-on workshop

Dakar, Sénégal
Oct 23-25, 2011

Welcome!

Network Startup Resource Center

Goal 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, infrastructure security, and more

Who are we

Joe Abley – ICANN
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Alain Aina - NSRC
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Phil Regnauld - NSRC
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Daily time schedule

Session 1   09:00-10:30
Break   10:30-10:45
Session 2   10:45-12:15
Lunch   12:15-13:15
Session 3   13:15-14:45
Break   14:45-15:00
Session 4   15:00-16:30

Class website

DURING THIS WORKSHOP:

http://noc.ws.nsrc.org/wiki

AFTER THIS WORKSHOP:

http://nsrc.org/workshops/2011/dakar-dnssec/

Classroom details

You are all system administrators.

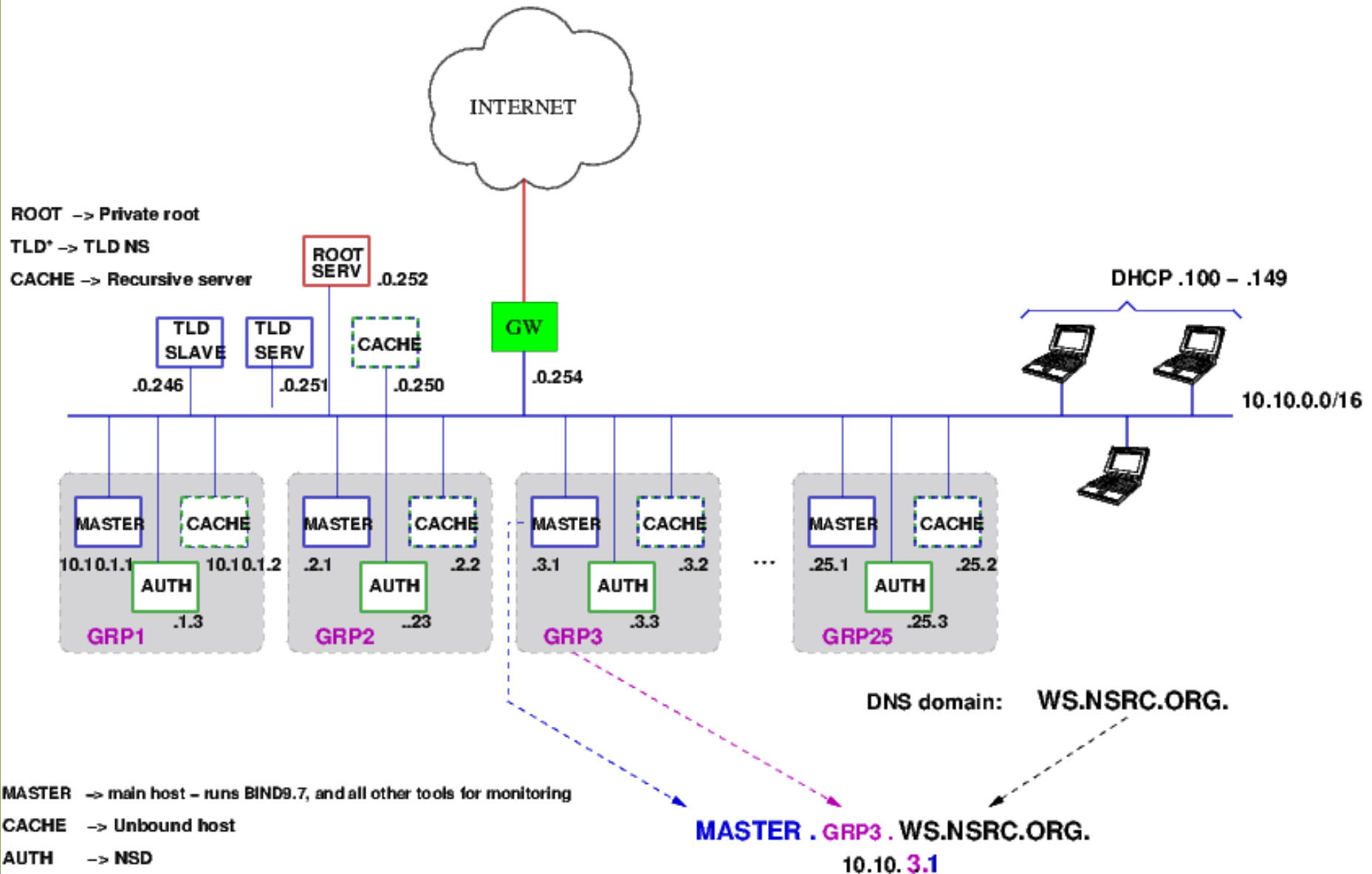You are in charge of your servers

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!

NETWORK LAYOUT

login: adm
pass: *given in class*

WiFI SSID: DNSSEC
WiFi pass: 8888888888

INTERNET

ROOT –> Private root

TLD* –> TLD NS

CACHE –> Recursive server

ROOT SERV .0.252

DHCP .100 – .149

TLD SLAVE

TLD SERV

CACHE

GW

.0.246

.0.251

.0.250

.0.254

10.10.0.0/16

MASTER CACHE

MASTER CACHE

MASTER CACHE

MASTER CACHE

10.10.1.1   10.10.1.2

.2.1   .2.2

.3.1   .3.2

...

.25.1   .25.2

AUTH

AUTH

AUTH

AUTH

.1.3

..23

.3.3

.25.3

GRP1

GRP2

GRP3

GRP25

DNS domain: WS.NSRC.ORG.

MASTER –> main host – runs BIND9.7, and all other tools for monitoring

CACHE   –> Unbound host

AUTH   –> NSD

MASTER . GRP3 . WS.NSRC.ORG.

10.10. 3.1

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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 ☺

Our wiki and noc

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

http://noc.ws.nsrc.org/wiki

and

http://nsrc.org/workshops/2011/dakar-dnssec

Passwords will be given in class.

Questions?

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