

Advanced DNS

Operations & Security

Welcome!



Goal of this workshop

- Give you tips, tools and techniques to deploy and operate a more reliable and robust DNS infrastructure
- Learn about common problems that DNS operators run into, and how to solve them
- Hear about DNSSEC, IDN and how they impact DNS
- To meet each other and share knowledge amongst ourselves.
- Answer your questions as we go along!

Who are we

Hervey Allen <hervey@nsrc.org>

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Daily time schedule

Session 1	09:00-10:30
Break	10:30-11:00
Session 2	11:00-13:30
Lunch	12:30-14:00
Session 3	14:00-16:00
Break	16:00-16:30
Session 4	16:30-17:30

Class website

<http://10.10.0.254/wiki>

Curriculum

Day 1: DNS refreshers - Debugging - Architecture

- * Intro
- * Presentation of participants, and workshop overview
- * Presentation: Overview on DNS protocol & architecture
- * Lab 1: Introduction to the environment
- * Lab 2: Using dig
- * Lab 3: More hands on using dig, doc, Wireshark
- * Lab 4: basic DNS statistics with dnstop
- * Presentation: Reliable Architecture design
- * Lab 5: Service separation

Day 3: Logging & Monitoring, DNS Security

- * Presentation: Log management & monitoring
- * Lab 8: Log management &

Classroom details

You are all system administrators.

You are in charge of your servers

To make our lives easier please consider:

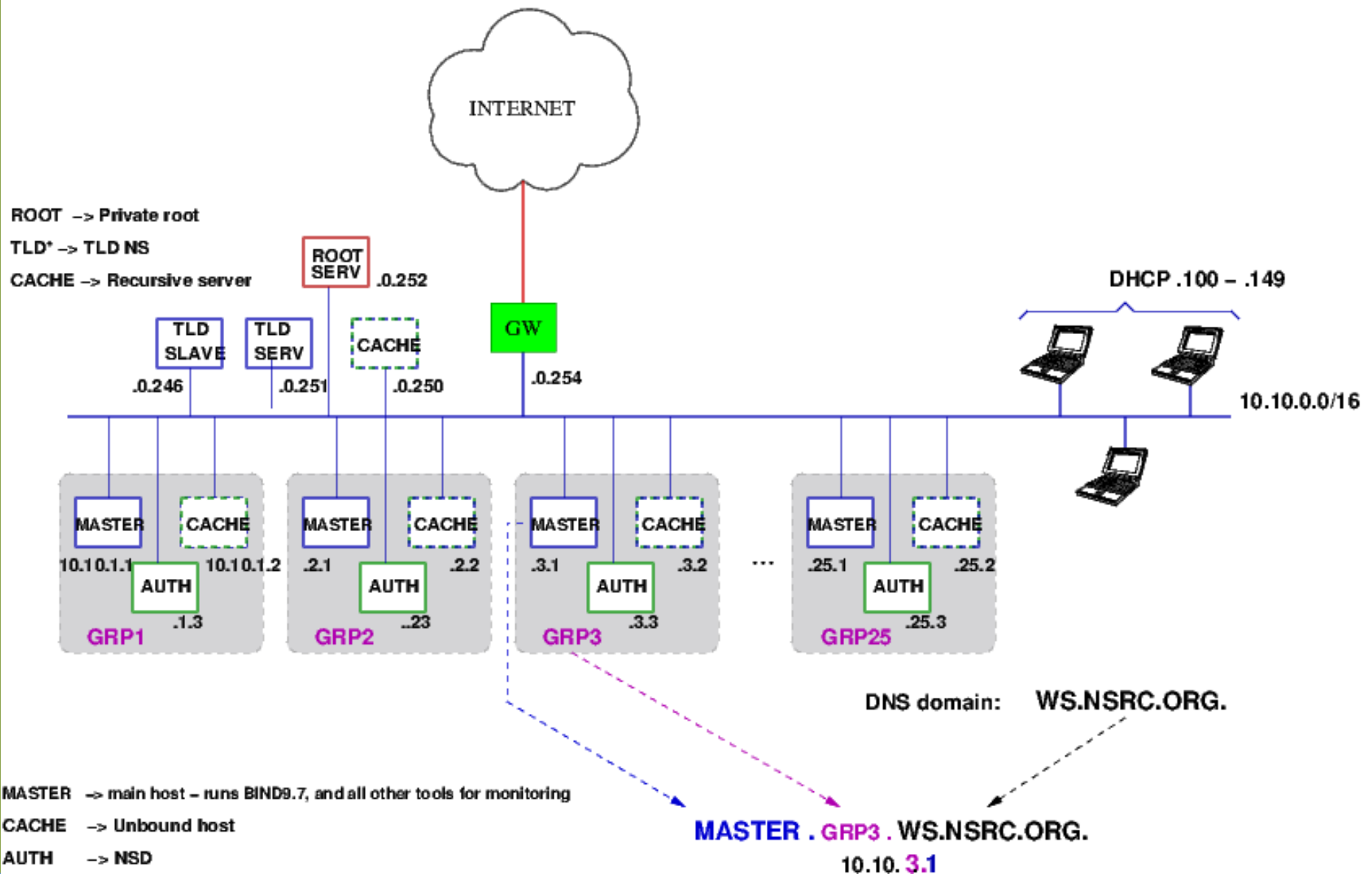
- Not changing your ***root*** or ***adm*** user passwords during the week.
- Not reconfiguring other attendees' machines...
- Practice using the `sudo` command instead of working as *root*.

This is a virtual environment!

NETWORK LAYOUT

login: adm
pass: *given in class*

WiFi SSID: DNS or DNS2
WiFi pass: 8888888888



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 will be available on:

<http://10.10.0.254/wiki>

Passwords will be given in class.

Questions?

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