DNSSEC
hands-on workshop
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, infratstructure security, and more
Who are we

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<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30-10:00</td>
<td>Session 1</td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>Break</td>
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<tr>
<td>10:30-12:30</td>
<td>Session 2</td>
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<tr>
<td>12:30-13:30</td>
<td>Lunch</td>
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<tr>
<td>13:30-15:30</td>
<td>Session 3</td>
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<tr>
<td>15:30-16:00</td>
<td>Break</td>
</tr>
<tr>
<td>16:00-17:30</td>
<td>Session 4</td>
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Class website

https://nsrc.org/workshops/2013
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*

WiFi SSID: DNS or DNS2
WiFi pass: 8888888888

INTERNET

A/B.ROOT -> Private root
AUTH1/AUTH2 -> TLD AUTH NS
RESOLV -> Recursive server

GW

RESOLV

AUTH1 AUTH2
10.10.1.1 10.10.1.2

GROUP 1

AUTH1 AUTH2
2.1 2.2
RESOLV

GROUP 2

AUTH1 AUTH2
3.1 3.2
RESOLV

GROUP 3

AUTH1 AUTH2
25.1 25.2
RESOLV

GROUP 25

DHCP 1.100 - 1.149

10.10.0.0/16

DNS domain: WS.NSRC.ORG.

MASTER -> main host – runs BIND9.7, and all other tools for monitoring
CACHE -> Unbound host
AUTH -> NSD

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 😊
Our wiki and noc

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

https://nsrc.org/workshops/2013

Passwords will be given in class.
Questions?