Logistics

- Webinar is scheduled for 1 hour
- This session will be recorded and posted at http://www.isc.org/webinars
- Participants are muted to improve audio quality for everyone.
- We want questions! Please enter into the WebEx Q&A tab
  - The presenter may defer some questions until the end of the presentation
Presenters

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The Question

- What would you do if dropped into an existing organization to run their DNS?
First action, Recon!

- Actually, first action is freak out!

- 2\textsuperscript{nd} action is caffeine, then deep breath and recon:

  Any network or infrastructure diagrams available?
diagrams

- Authoritative: 251 / 252
- Recursive: 253
- Root (\text{\text{.}}\text{\text{)}}: ftp, web: 254

192.168.53.0/24

- DHCP Pool: 128 - 248
- Static (via DHCP): 101, 102, 103 ...
Pick a nameserver, login!

- Running a current version of BIND? named –V
- OS?
- How is named started on this box? Does this match the version currently running?
- Is there a nanny script in use?
% named -V
BIND 9.8.4-P2 built with '--prefix=/usr' '--infodir=/usr/share/info' '--mandir=/usr/share/man' '--enable-threads' '--enable-getifaddrs' '--disable-linux-caps' '--with-openssl=/usr' '--with-randomdev=/dev/random' '--without-idn' '--without-libxml2'
using OpenSSL version: OpenSSL 0.9.8zd-freebsd 8 Jan 2015
On to named.conf

- Do the global options make sense?

- Basic security check:
  - TSIG secured zone transfers?
  - allow-transfer?
  - allow-query (is this an open resolver?)
Global options

options {
  directory "/etc/namedb/";
  dnssec-enable yes;
  dnssec-validation yes;
  allow-recursion { none; };
  allow-query { any; };
  allow-transfer { none; };
  notify no;
  key-directory "/etc/namedb/keys";
  max-journal-size 32k;
  zone-statistics yes;
  listen-on { 192.168.53.251; };
  listen-on-v6 { 2001:db8:100::251; };
  notify-source 192.168.53.251;
  notify-source-v6 2001:db8:100::251;
};
zone stanzas

zone "example.com" IN {
  file "example.com-zone";
  type slave;
  masters { 192.168.53.4; 192.168.53.8; };
  notify no;
};
Is the logging stanza sane and actually occurring?

Check the config as well as the actual logs.

Have a look at the system logs
logging stanza

logging {
    channel query_log {
        file "logs/query.log" versions 5 size 1M;
        severity info;
        print-time yes;
    };
    category queries { query_log; };
};
named-checkconf is your friend

$ named-checkconf –z

zone ./IN: loaded serial 121 (DNSSEC signed)
zone test.dnslab.org/IN: loaded serial 50 (DNSSEC signed)
rndc

- Is rndc configured?
  - If not, ‘rndc-confgen –a’

- rndc status

- rndc notify zone
- rndc retransfer zone
Recon Repeat

- Repeat the prior Recon for all known nameservers!
- If diagrams were available, check to see if configs match stated functionality.
Authoritative specific

- Use external tools to check service:
  - DNSViz
  - dnscheck.iis.se
  - ednscomp.isc.org (firewall check)
Recursive specific

- Perform queries against these servers via dig
  
  dig @192.168.53.53 www.example.com.

- Are they answering appropriately?

- Are they refusing appropriately?
Actions for Day 2

- Meet with the following teams:
  - Provisioning: how fast for new servers?
  - Operations: how’s life?
  - Security: about those firewalls…
  - Monitoring: alerting on?, peak traffic?
  - Architecture: future plans?
  - Management: support?
Questions
Thank You!

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