Network Administration HW3 Checkpoints

yca

Overview

a. (15%) Query ns1 (10.113.x.1) for A records of the machines in HW[1-3]
- router.{your_domain}.
- ns[1-2].{your_domain}.
- ldap[1-2].{your_domain}.

b. (5%) Check if zone "{your_domain}" is consistent on ns1 and ns2.

c. (2%) Query ns1 for some records of zone "nasa."

d. (3%) Query ns1 for some records of zone "{someone}.nasa."

e. (10%) Check zone transfer security.

f. (10%) Check recursion security.

Overview (Cont.)

g. **(5%)** Query ns2 for CNAME records of
   - nasa.{your_domain}.
   - friend.{your_domain}.

h. **(10%)** Query ns1 for A record of view.{your_domain}.

i. **(15%)** Reverse lookup for the IP address we got in part a.

j. **(5%)** Check SSHFP record of your machines' ssh key fingerprint.

k. **(15%)** Check DNSSEC chain of trust from sec.{your_domain}. to {your_domain}.

l. **(5%)** Implement DNSSEC with NSEC3.

Checkpoints a.

- Query ns1 (10.113.x.1) for A records of the machines in HW[1-3]
  - router.{your_domain}
  - ns1.{your_domain}
  - ns2.{your_domain}
  - ldap1.{your_domain}
  - ldap2.{your_domain}
- $ dig {domain} @10.113.x.1

Checkpoints b.

- Check if zone “{your_domain}” is consistent on ns1 and ns2.
- $ dig axfr {your_domain} @{nameserver}

Checkpoints c.

- Query ns1 for some records of zone “nasa.”
- $ dig {domain} @10.113.x.1

Checkpoints d.

- Query ns1 for some records of zone “{someone}.nasa.”
- $ dig {domain} @10.113.x.1

Checkpoints e.

- Check zone transfer security.
- $ dig axfr {domain} @{nameserver}

Checkpoints f.

- Check recursion security.
- $ dig {some_other_thing} @{nameserver}

Checkpoints g.

- Query ns2 for CNAME records of
  - nasa.{your_domain}.
  - friend.{your_domain}.
- $ dig {domain}

Checkpoints h.

- Query ns1 for A record of view.{your_domain}.
- TA will test on different host and it is expected to get different result for different view.

Checkpoints i.

- Reverse lookup for the IP address we got in part a.
- $ dig -x {IP_address}

Checkpoints j.

- Check SSHFP record of your machines' ssh key fingerprint.
- $ ssh -o "VerifyHostKeyDNS yes" {domain}

Checkpoints k.

- Check DNSSEC chain of trust from sec.{your_domain}. to {your_domain}.
- https://github.com/dnsviz/dnsviz
- TA will use same script to check your chain of trust.

Checkpoints I.

- Implement DNSSEC with NSEC3.
- https://github.com/dnsviz/dnsviz
- TA will use same script to check your chain of trust.