Advanced Computer Networking & Security

Lab Report: 8 - Local DNS Attack Lab

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**Task 1: Directly Spoofing Response to User**

When a user types the name of a web site (a host name, such as www.example.com) in a web browser, the user’s computer will send a DNS request to the local DNS server to resolve the IP address of the host name

Text

Description automatically generated

**Task 2: DNS Cache Poisoning Attack – Spoofing Answers**

Command to clearDNS Server’s cache

Graphical user interface, text, application

Description automatically generated

Inspecting the cache on the local DNS server to see whether it is poisoned or not.

#rndc dumpdb -cache

# cat /var/cache/bind/dump.db

**DNS cache poisoning attack:**

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

**Task 3: Spoofing NS Records**

DNS Attack using Authority section in DNS replies

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

**Task 4: Spoofing NS Records for Another Domain**

Text

Description automatically generated

Text

Description automatically generated

Graphical user interface, text

Description automatically generated

**Task 5: Spoofing Records in the Additional Section**

Text

Description automatically generated with low confidence

Text

Description automatically generated

Graphical user interface, text

Description automatically generated