# **DNS** enumeration:

### SMTP, SNMP, FTP

Objective: to enumerate the information from open port.

There are many dns server in companies, for example a chekpoin maintains 4 dns server, other acts as a redundant and to make it absolute DNS zone transfer happens, one of the primary responsibility of DNS system adm is to configure zone transfer in such a way that it happens with concerned DNS server only.

If attacker comes to know that port 53 is opened he can extract data from that especially Records.

**Enumeration: to explore.** 

#### Windows:

C:\>nslookup

Nslookup by default gives all info from all dns record

C:\>set type=ns

C:\>checkpoint.com

```
> set type=ns
> checkpoint.com
Server: UnKnown
Address: 192.168.1.1

DNS request timed out.
    timeout was 2 seconds.
Non-authoritative answer:
checkpoint.com nameserver = dns4.p01.nsone.net
checkpoint.com nameserver = dns3.p01.nsone.net
checkpoint.com nameserver = dns2.p01.nsone.net
checkpoint.com nameserver = dns2.p01.nsone.net
```

### >server dns1.p01.....

### >ls -d checkpoint.com

Refused :....

```
server dns4.p01.nsone.net

NS request timed out.

timeout was 2 seconds.

efault Server: dns4.p01.nsone.net

ddresses: 2a00:edc0:6259:7:1::4

198.51.45.65

ls -d checkpoint.com

s: connect: No error

** Can't list domain checkpoint.com: Unspecified error

he DNS server refused to transfer the zone checkpoint.com to your computer. If this
s incorrect, check the zone transfer security settings for checkpoint.com on the DNS
erver at IP address 2a00:edc0:6259:7:1::4.
```

# Fresh start:

C:\>nslookup

C:\>zonetransfer.me

```
> set type=ns
> zonetransfer.me
Server: UnKnown
Address: 192.168.1.1

DNS request timed out.
    timeout was 2 seconds.
Non-authoritative answer:
zonetransfer.me nameserver = nsztm1.digi.ninja
zonetransfer.me nameserver = nsztm2.digi.ninja
nsztm2.digi.ninja internet address = 34.225.33.2
nsztm1.digi.ninja internet address = 81.4.108.41
>
```

#### >server .....

## >ls -d site

```
| A | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 | 127.0.0.1 |
```

Set our own dns server -> put it in bridge and check whether info is getting revealed or not .

```
ind9
shuhari@debian:/etc/bind$ nslookup
> server 192.168.1.142
Default server: 192.168.1.142
Address: 192.168.1.142#53
> www.omkar.local
Server: 192.168.1.142
Address: 192.168.1.142
Address: 192.168.1.142
> nsl.omkar.local
Server: 192.168.1.142
> nsl.omkar.local
Address: 192.168.1.142
Address: 192.168.1.142
Address: 192.168.1.142
Server: 192.168.1.142
Address: 192.168.1.141
> debian.omkar.local
Server: 192.168.1.142
Address: 192.168.1.142
Address: 192.168.1.142
Name: debian.omkar.local
Address: 192.168.1.142
Address: 192.168.1.142#53
```

