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Department of Information Technology

Experiment No. : 7

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Title: Network Reconnaissance tools/commands.

Problem Definition : Use following Network Reconnaissance tools/commands to gather information about network and domain registrars. WHOIS, dig, traceroute, nslookup.

Prerequisite : Networking commands

Theory :

- 1) who is - The whois command tries to reach ARPANET host internic.net where it examines a user-name database to obtain information. The whois command should be used only by users on ARPANET.
- 2) dig - dig command stands for Domain Information Groper. It is used for retrieving information about DNS name servers. It is basically used by network administrators. It is used for verifying and troubleshooting DNS problems and to perform DNS lookups.
- 3) traceroute - The traceroute command attempts to trace the route an IP packet follows to an Internet host by launching UDP probe packets with a small maximum time-to-live (Max_ttl variable), then listening for an ICMP TIME_EXCEEDED response from gateways along the way.
- 4) nslookup - The nslookup command queries internet domain name servers in two modes. Interactive mode allows you to query name servers for information about various hosts and domains, or to print a list of the hosts in a domain.

Results :

1.)Whois

```
(aloha@Kali)-[~]  
$ whois moodle.in  
Domain Name: moodle.in  
Registry Domain ID: D82793F47F97A480882F6883D3B644539-IN  
Registrar WHOIS Server:  
Registrar URL: http://www.dynadot.com  
Updated Date: 2022-06-26T02:46:15Z  
Creation Date: 2020-11-11T20:00:06Z  
Registry Expiry Date: 2022-11-11T20:00:06Z  
Registrar: Dynadot LLC  
Registrar IANA ID: 472  
Registrar Abuse Contact Email:  
Registrar Abuse Contact Phone:  
Domain Status: clientTransferProhibited http://www.icann.org/epp#clientTransferProhibited  
Registry Registrant ID: REDACTED FOR PRIVACY  
Registrant Name: REDACTED FOR PRIVACY  
Registrant Organization:  
Registrant Street: REDACTED FOR PRIVACY  
Registrant Street: REDACTED FOR PRIVACY  
Registrant Street: REDACTED FOR PRIVACY  
Registrant City: REDACTED FOR PRIVACY  
Registrant State/Province: FL  
Registrant Postal Code: REDACTED FOR PRIVACY  
Registrant Country: US  
Registrant Phone: REDACTED FOR PRIVACY  
Registrant Phone Ext: REDACTED FOR PRIVACY  
Registrant Fax: REDACTED FOR PRIVACY  
Registrant Fax Ext: REDACTED FOR PRIVACY  
Registrant Email: Please contact the Registrar listed above  
Registry Admin ID: REDACTED FOR PRIVACY
```

2.) Dig

```

(aloha@Kali)-[~]
$ dig dbit.in

; <<>> DiG 9.18.6-2-Debian <<>> dbit.in
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 49027
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;dbit.in.                IN      A

;; ANSWER SECTION:
dbit.in.                 3600    IN      A      15.206.23.229

;; Query time: 27 msec
;; SERVER: 10.0.1.148#53(10.0.1.148) (UDP)
;; WHEN: Mon Sep 12 00:49:51 EDT 2022
;; MSG SIZE rcvd: 52

```

3.)tracert

```

(aloha@Kali)-[~]
$ traceroute dbit.in
traceroute to dbit.in (15.206.23.229), 30 hops max, 60 byte packets
 1  10.0.2.2 (10.0.2.2)  0.161 ms  0.213 ms  0.159 ms
 2  10.0.2.2 (10.0.2.2)  68.328 ms  68.201 ms  68.159 ms

```

4.)nslookup

```

(aloha@Kali)-[~]
$ nslookup 15.206.23.229
229.23.206.15.in-addr.arpa      name = ec2-15-206-23-229.ap-south-1.compute.amazonaws.com.

Authoritative answers can be found from:

```

References :
Networking Commands