



ANJUMAN-I-ISLAM'S KALSEKAR TECHNICAL CAMPUS

School of Engineering & Technology

Affiliated to : University of Mumbai, Recognised by : DTE (Maharashtra) & Approved by : AICTE (New Delhi)

Course Code : CSL604

Course Name : System Security Lab

Class : TE-CO

Batch : Computer Engineering

Roll no : 18CO63

Name : SHAIKH TAUSEEF MUSHTAQUE ALI

Experiment: 05

Aim : Study the use of network reconnaissance tools like WHOIS, dig, traceroute, nslookup to gather information about networks and domain registrars.

Output:

```
mastmac — -zsh — 103x16
mastmac@MASTMACs-Mac-mini ~ % traceroute -m 10 phalicious-shield-aboutus.netlify.app
traceroute: Warning: phalicious-shield-aboutus.netlify.app has multiple addresses; using 52.220.193.16
traceroute to phalicious-shield-aboutus.netlify.app (52.220.193.16), 10 hops max, 52 byte packets
 1  192.168.0.1 (192.168.0.1)  1.031 ms  0.322 ms  0.405 ms
 2  xiaoqiang (192.168.31.1)  0.733 ms  0.699 ms  0.629 ms
 3  1.186.179.1.dvois.com (1.186.179.1)  1.489 ms  2.412 ms  1.967 ms
 4  114.79.129.97.dvois.com (114.79.129.97)  1.912 ms  1.498 ms  2.022 ms
 5  * * *
 6  * * *
 7  * * *
 8  * * *
 9  * * *
10  * * *
mastmac@MASTMACs-Mac-mini ~ %
```

```
mastmac — -zsh — 75x12
mastmac@MASTMACs-Mac-mini ~ % nslookup phalicious-shield-aboutus.netlify.ap
p
Server:          192.168.0.1
Address:         192.168.0.1#53

Non-authoritative answer:
Name:   phalicious-shield-aboutus.netlify.app
Address: 104.248.158.121
Name:   phalicious-shield-aboutus.netlify.app
Address: 167.99.78.230
```



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```
mastmac — -zsh — 96x53
[mastmac@MASTMACs-Mac-mini ~ %] whois phalicious-shield-aboutus.netlify.app
% IANA WHOIS server
% for more information on IANA, visit http://www.iana.org
% This query returned 1 object

refer:      whois.nic.google

domain:     APP

organisation: Charleston Road Registry Inc.
address:    1600 Amphitheatre Parkway Mountain View, CA 94043
address:    United States

contact:    administrative
name:       TLD Admin
organisation: Google Inc.
address:    111 8th Avenue
address:    New York, NY 10011
address:    United States
phone:      +1 404 978 8419
fax-no:     +1 650 492 5631
e-mail:     iana-contact@google.com

contact:    technical
name:       TLD Engineering
organisation: Google Inc
address:    76 9th Avenue, 4th Floor
address:    New York, NY 10011
address:    United States
phone:      +1 404 978 8419
fax-no:     +1 650 492 5631
e-mail:     crr-tech@google.com

nslookup:   NS-TLD1.CHARLESTONROADREGISTRY.COM 2001:4860:4802:32:0:0:0:69 216.239.32.105
nslookup:   NS-TLD2.CHARLESTONROADREGISTRY.COM 2001:4860:4802:34:0:0:0:69 216.239.34.105
nslookup:   NS-TLD3.CHARLESTONROADREGISTRY.COM 2001:4860:4802:36:0:0:0:69 216.239.36.105
nslookup:   NS-TLD4.CHARLESTONROADREGISTRY.COM 2001:4860:4802:38:0:0:0:69 216.239.38.105
nslookup:   NS-TLD5.CHARLESTONROADREGISTRY.COM 2001:4860:4805:0:0:0:0:69 216.239.60.105
ds-rdata:   23684 8 2 3a5cc8a31e02c94aba6461912fabb7e9f5e34957bb6114a55a864d96aec31836

whois:      whois.nic.google

status:     ACTIVE
remarks:    Registration information: https://www.registry.google

created:    2015-06-25
changed:    2020-04-20
source:     IANA

# whois.nic.google

Nameserver not found.
>>> Last update of WHOIS database: 2021-05-19T12:08:38Z <<<
```



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```
mastmac — zsh — 75x39

[mastmac@MASTMACs-Mac-mini ~ % dig phalicious-shield-aboutus.netlify.app

; <<>> DiG 9.10.6 <<>> phalicious-shield-aboutus.netlify.app
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 34982
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 4, ADDITIONAL: 9

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;phalicious-shield-aboutus.netlify.app. IN A

;; ANSWER SECTION:
phalicious-shield-aboutus.netlify.app. 20 IN A 167.99.78.230
phalicious-shield-aboutus.netlify.app. 20 IN A 206.189.46.168

;; AUTHORITY SECTION:
netlify.app. 4673 IN NS dns2.p01.nsone.net.
netlify.app. 4673 IN NS dns3.p01.nsone.net.
netlify.app. 4673 IN NS dns4.p01.nsone.net.
netlify.app. 4673 IN NS dns1.p01.nsone.net.

;; ADDITIONAL SECTION:
dns1.p01.nsone.net. 57656 IN A 198.51.44.1
dns2.p01.nsone.net. 94896 IN A 198.51.45.1
dns3.p01.nsone.net. 94896 IN A 198.51.44.65
dns4.p01.nsone.net. 94896 IN A 198.51.45.65
dns1.p01.nsone.net. 94896 IN AAAA 2620:4d:4000:6259:7:1:0:1
dns2.p01.nsone.net. 94896 IN AAAA 2a00:edc0:6259:7:1::2
dns3.p01.nsone.net. 94896 IN AAAA 2620:4d:4000:6259:7:1:0:3
dns4.p01.nsone.net. 94896 IN AAAA 2a00:edc0:6259:7:1::4

;; Query time: 32 msec
;; SERVER: 192.168.0.1#53(192.168.0.1)
;; WHEN: Wed May 19 17:40:40 IST 2021
;; MSG SIZE rcvd: 363
```

Conclusion:

Network reconnaissance tools like WHOIS, dig, traceroute and nslookup are studied to gather information about networks and domain registrars.