

**Aim: Study the use of network reconnaissance tool like whois, dig, traceroute, nslookup to gather information about network.**

## WHOIS Command: -

```
bishwajit@bishwajitVM: ~  
bishwajit@bishwajitVM:~$ whois geeksforgeeks.org  
Domain Name: geeksforgeeks.org  
Registry Domain ID: f507261c73964021b7430545a8b370ee-LROR  
Registrar WHOIS Server: http://whois.publicdomainregistry.com  
Registrar URL: http://www.publicdomainregistry.com  
Updated Date: 2022-04-21T06:36:07Z  
Creation Date: 2009-03-19T06:08:55Z  
Registry Expiry Date: 2030-03-19T06:08:55Z  
Registrar: PDR Ltd. d/b/a PublicDomainRegistry.com  
Registrar IANA ID: 303  
Registrar Abuse Contact Email: abuse@publicdomainregistry.com  
Registrar Abuse Contact Phone: +1.2013775952  
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited  
Registry Registrant ID: REDACTED FOR PRIVACY  
Registrant Name: REDACTED FOR PRIVACY  
Registrant Organization: Privacy Protect, LLC (PrivacyProtect.org)  
Registrant Street: REDACTED FOR PRIVACY  
Registrant City: REDACTED FOR PRIVACY  
Registrant State/Province: MA  
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 query the RDNS service of the Registrar of Record identified in this output for information on how to contact the Registrant, Admin, or Tech contact of the queried domain name.  
Registry Admin ID: REDACTED FOR PRIVACY  
Admin Name: REDACTED FOR PRIVACY  
Admin Organization: REDACTED FOR PRIVACY  
Admin Street: REDACTED FOR PRIVACY  
Admin City: REDACTED FOR PRIVACY  
Admin State/Province: REDACTED FOR PRIVACY  
Admin Postal Code: REDACTED FOR PRIVACY  
Admin Country: REDACTED FOR PRIVACY  
Admin Phone: REDACTED FOR PRIVACY  
Admin Phone Ext: REDACTED FOR PRIVACY  
Admin Fax: REDACTED FOR PRIVACY  
Admin Fax Ext: REDACTED FOR PRIVACY  
Admin Email: Please query the RDNS service of the Registrar of Record identified in this output for information on how to contact the Registrant, Admin, or Tech contact of the queried domain name.  
Registry Tech ID: REDACTED FOR PRIVACY  
Tech Name: REDACTED FOR PRIVACY  
Tech Organization: REDACTED FOR PRIVACY  
Tech Street: REDACTED FOR PRIVACY  
Tech City: REDACTED FOR PRIVACY  
Tech State/Province: REDACTED FOR PRIVACY  
Tech Postal Code: REDACTED FOR PRIVACY  
Tech Country: REDACTED FOR PRIVACY  
Tech Phone: REDACTED FOR PRIVACY
```

## Dig Command: -

```
bishwajit@bishwajitVM: ~  
bishwajit@bishwajitVM:~$ dig geeksforgeeks.org  
;<<>> DiG 9.18.1-1ubuntu1.1-Ubuntu <<>> geeksforgeeks.org  
;; global options: +cmd  
;; Got answer:  
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 3129  
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 4, ADDITIONAL: 9  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 65494  
;; QUESTION SECTION:  
;geeksforgeeks.org. IN A  
  
;; ANSWER SECTION:  
geeksforgeeks.org. 30 IN A 34.218.62.116  
  
;; AUTHORITY SECTION:  
geeksforgeeks.org. 1967 IN NS ns-245.awsdns-30.com.  
geeksforgeeks.org. 1967 IN NS ns-1569.awsdns-04.co.uk.  
geeksforgeeks.org. 1967 IN NS ns-869.awsdns-44.net.  
geeksforgeeks.org. 1967 IN NS ns-1520.awsdns-62.org.  
  
;; ADDITIONAL SECTION:  
ns-1520.awsdns-62.org. 78595 IN A 205.251.197.240  
ns-1520.awsdns-62.org. 78595 IN AAAA 2600:9000:5305:f000::1  
ns-1569.awsdns-04.co.uk. 78582 IN A 205.251.198.33  
ns-1569.awsdns-04.co.uk. 78582 IN AAAA 2600:9000:5306:2100::1  
ns-245.awsdns-30.com. 78584 IN A 205.251.192.245  
ns-245.awsdns-30.com. 78584 IN AAAA 2600:9000:5300:f500::1  
ns-869.awsdns-44.net. 78580 IN A 205.251.195.101  
ns-869.awsdns-44.net. 78580 IN AAAA 2600:9000:5303:6500::1  
  
;; Query time: 8 msec  
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)  
;; WHEN: Mon Sep 26 19:27:54 IST 2022  
;; MSG SIZE rcvd: 375
```

### Traceroute Command: -

```
bishwajit@bishwajitVM: ~  
bishwajit@bishwajitVM:~$ traceroute google.com  
traceroute to google.com (142.250.182.206), 64 hops max  
 1  10.0.2.2  2.520ms  2.588ms  3.923ms  
 2  * * *  
 3  * * *  
 4  * * *  
 5  * * *  
 6  * * *  
 7  * * *
```

### Nslookup Command: -

```
bishwajit@bishwajitVM: ~  
bishwajit@bishwajitVM:~$ nslookup google.com  
Server:      127.0.0.53  
Address:     127.0.0.53#53  
  
Non-authoritative answer:  
Name:   google.com  
Address: 142.250.182.206  
Name:   google.com  
Address: 2404:6800:4009:81e::200e  
  
bishwajit@bishwajitVM:~$ nslookup geekforgeeks.org  
Server:      127.0.0.53  
Address:     127.0.0.53#53  
  
Non-authoritative answer:  
Name:   geekforgeeks.org  
Address: 103.224.182.241
```

### Conclusion: -

We conclude that we learned different tools and commands to gather information of the target by using following command like nslookup, traceroute, dig and whois.