

# dig - DNS Lookup Utility

The `dig` is a powerful CLI to find out information about domains and IP addresses without using any 3rd party tools or websites.

01. What is the website's IP address?

```
dig apple.com
```

02. How do you identify the name servers(NS) associated with a domain?

```
dig NS apple.com +short  
dig NS com. +short
```

03. Which eMail Servers(MX) are responsible for a domain?

```
dig MX apple.com +short
```

04. Finding out the domain name associated with the IP address (reverse IP lookup)

```
dig -x 1.1.1.1 +short  
dig -x 8.8.4.4 +short
```

05. Finding out the delegation path for any DNS zone (learn how DNS works)

```
dig apple.com +trace
```

06. Finding out DNS answers from specific cache resolver (e.g. Cloudflare [1.1.1.1], Google DNS [8.8.8.8], IBM and so on for cyberciti.biz domain)

```
dig A cyberciti.biz @1.1.1.1 +short  
dig A cyberciti.biz @8.8.8.8 +short
```

07. Finding out the cache expire time (TTL) for DNS

```
# AAAA is for IPv6  
dig A www.cyberciti.biz +nocmd +noall +answer +ttlid  
dig AAAA www.cyberciti.biz +nocmd +noall +answer +ttlid
```

08. Finding if a zone is synchronized with all authoritative name servers (look for serial number)

```
dig nixcraft.com +nssearch
```

09. What is my public IPv4 or IPv6 address?

```
dig TXT o-o.myaddr.l.google.com @ns1.google.com +short
```

```
dig TXT ch whoami.cloudflare @1.0.0.1 +short
```

10. Getting help about the dig command

```
man dig
```

11. Finding out the IP address associated the domain name.

```
dig yahoo.com +short | sort -V
```

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