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# host command in Linux with examples

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host command in Linux system is used for DNS (Domain Name System) lookup operations. In simple words, this command is used to find the IP address of a particular domain name or if you want to find out the domain name of a particular IP address the host command becomes handy. You can also find more specific details of a domain by specifying the corresponding option along with the domain name.

#### Syntax:

```
host [-aCdlriTWV] [-c class] [-N ndots] [-t type] [-W time]
        [-R number] [-m flag] hostname [server]
```

**host command without any option:** It will print the general syntax of the command along with the various options that can be used with the host command as well as gives a brief description about each option.

#### **Example:**

```
anshul@anshul-VirtualBox:~$ host
Usage: host [-aCdilrTvVw] [-c class] [-N ndots] [-t type] [-W time]
            [-R number] [-m flag] hostname [server]
       -a is equivalent to -v -t ANY
       -c specifies query class for non-IN data
       -C compares SOA records on authoritative nameservers
         is equivalent to -v
         IP6.INT reverse lookups
       -l lists all hosts in a domain, using AXFR
         set memory debugging flag (trace|record|usage)
       -N changes the number of dots allowed before root lookup is done
         disables recursive processing
         specifies number of retries for UDP packets
         a SERVFAIL response should stop query
         specifies the query type
         enables TCP/IP mode
```

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#### Different options with the host command:

host domain\_name: This will print the IP address details of the specified domain.
 Example:

host geeksforgeeks.org

```
anshul@anshul-VirtualBox:~$ host geeksforgeeks.org
geeksforgeeks.org has address 52.25.109.230
geeksforgeeks.org mail is handled by 1 aspmx.l.google.com.
geeksforgeeks.org mail is handled by 10 alt3.aspmx.l.google.com.
geeksforgeeks.org mail is handled by 10 alt4.aspmx.l.google.com.
geeksforgeeks.org mail is handled by 5 alt1.aspmx.l.google.com.
geeksforgeeks.org mail is handled by 5 alt2.aspmx.l.google.com.
anshul@anshul-VirtualBox:~$
```

host IP\_Address: This will display the domain details of the specified IP Address.
 Example:

host 52.25.109.230

```
anshul@anshul-VirtualBox:~$ host 52.25.109.230
230.109.25.52.in-addr.arpa domain name pointer ec2-52-25-109-230.us-west-2.compute.amazonaws.com.
anshul@anshul-VirtualBox:~$
```

• -a or -v: It used to specify the query type or enables the verbose output.

#### **Example:**

host -a geeksforgeeks.org

```
anshul@anshul-VirtualBox:~$ host -v geeksforgeeks.org
Trying "geeksforgeeks.org"
;; ">>HEADER<- opcode: QUERY, status: NOERROR, id: 14557
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0
;; QUESTION SECTION:
;geeksforgeeks.org. IN A
;; ANSWER SECTION:
geeksforgeeks.org. 8 IN A 52.25.109.230

Received 51 bytes from 127.0.0.53#53 in 1 ms
Trying "geeksforgeeks.org"
;; ->>HEADER<- opcode: QUERY, status: NOERROR, id: 11597
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 0, ADDITIONAL: 0
;; QUESTION SECTION:
;geeksforgeeks.org"
;; ->>HEADER<- opcode: QUERY, status: NOERROR, id: 43282
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 0
;; QUESTION SECTION:
;geeksforgeeks.org. IN MX
;; ANSWER SECTION:
geeksforgeeks.org. IN MX
5 alt2.aspmx.l.google.com.
geeksforgeeks.org. 278 IN MX 5 alt2.aspmx.l.google.com.
geeksforgeeks.org. 278 IN MX 5 alt1.aspmx.l.google.com.
geeksforgeeks.org. 278 IN MX 5 alt1.aspmx.l.google.com.
```

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#### host -t ns geeksforgeeks.org

```
anshul@anshul-VirtualBox:~$ host -t ns geeksforgeeks.org
geeksforgeeks.org name server ns-869.awsdns-44.net.
geeksforgeeks.org name server ns-245.awsdns-30.com.
geeksforgeeks.org name server ns-1569.awsdns-04.co.uk.
geeksforgeeks.org name server ns-1520.awsdns-62.org.
anshul@anshul-VirtualBox:~$
```

#### Example 2: To print SOA record

host -t SOA geeksforgeeks.org

```
anshul@anshul-VirtualBox:~$ host -t SOA geeksforgeeks.org
geeksforgeeks.org has SOA record ns-869.awsdns-44.net. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
anshul@anshul-VirtualBox:~$
```

#### **Example 3:** To print *txt* record

host -t txt geeksforgeeks.org

```
anshul@anshul-VirtualBox:~$ host -t txt geeksforgeeks.org
geeksforgeeks.org descriptive text "v=spf1 include:amazonses.com include:_spf.google.com -all"
anshul@anshul-VirtualBox:~$
```

• -C: In order to compare the SOA records on authoritative nameservers.

#### **Example:**

host -C geeksforgeeks.org

• **-R:** In order to specify the number of retries you can do in case one try fails. If anyone try succeeds then the command stops.

#### **Example:**

host -R 3 geeksforgeeks.org

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```
anshul@anshul-VirtualBox:~$ host -R 3 geeksforgeeks.org
geeksforgeeks.org has address 52.25.109.230
geeksforgeeks.org mail is handled by 10 alt4.aspmx.l.google.com.
geeksforgeeks.org mail is handled by 5 alt1.aspmx.l.google.com.
geeksforgeeks.org mail is handled by 5 alt2.aspmx.l.google.com.
geeksforgeeks.org mail is handled by 1 aspmx.l.google.com.
geeksforgeeks.org mail is handled by 10 alt3.aspmx.l.google.com.
anshul@anshul-VirtualBox:~$
```

• -l:In order to list all hosts in a domain. For this command to work you need to be either an admin or a node server.

#### **Example:**

host -1 geeksforgeeks.org

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