Cheatography

dig (english)

by TME520 (TME520) via cheatography.com/20978/cs/7226/

Svntax

dig [@server] [-b address] [-c class] [-f filename] [-k filename] [-m] [-p port#] [-q name] [-t type] [-x addr] [-y [hmac:]name:key] [-4] [-6] [name] [type] [class] [queryopt...]

Config

Tired of always vi \$HOME/.digrc typing the same options? Create a Run Control file for dig.

\$ cat \$HOME/.digrc +noall +answer

List specific types of RRs (Resource Records)

List dig -t A tme520.net
address
records

List dig -t CNAME tme520.net
aliases

Find who dig -t SOA tme520.net

manages a domain

List mail dig tme520.net MX

servers

List

dig tme520.net NS

name servers

List any dig tme520.net ANY

type of Resource Record

There are about 40 DNS Resources Records types, but you only have to know 5 of them:

- A: Address record (IPv4); AAAA for IPv6,
- CNAME : Canonical Name. Aliases to A or AAAA records,
- SOA: Start Of Authority: primary name server, email of the domain admin, domain serial number, and timers relating to refreshing the zone,
- MX : Mail eXchange. Points to a mail server,
- NS: Name Server (a DNS)

| Output sections (cont) | |
|------------------------|--|
| QUESTION | This is your input, the question that has been asked to the DNS. |
| ANSWER | The 2nd field is the time in seconds that the record may be cached (0 = don't cache), the 3rd field is the class (Internet (IN), Chaos (CH), Hesiod (HS)), the 4th is the type (A, NS, CNAME, MX) and the 5th, the IP. |
| AUTHORITY | This section contains the DNS name server that has the authority to answer your query (type: NS, Name Server). |
| ADDITIONAL | The additional section carries Resource Records |

STATISTICS Displays the time it took to get an answer, the IP of the DNS server used, the date and size of the message.

other sections.

related to the RRs from the

If you ever get confused about whether or not *dig* found any result for your query, check the ANSWER field from the header; if it's at 0, your query returned no proper answer.

Make that DNS talk!

Display dig opensu se.org +noall
only the r
ANSWER
section

Reverse dig -x 208.97.17 7.124

DNS (get name from IP)

output

Use a dig @8.8.4.4 redhat.com

specific DNS server

Display dig google.com +trace

the name resolution path

Request dig micros oft.com AXFR

a zone transfer

A zone transfer is a mechanism allowing an administrator to replicate DNS databases across a set of DNS servers. There are two methods: full (aka AXFR) and incremental (aka IXFR). Zone transfers were often used by people wanting to retrieve a list of all the Resource Records of a DNS server. Nowadays, most servers will refuse your request, mostly for security reasons.

Batch mode: multiple queries in one go

Using a dig -f names.list

list

Using dig centos.org MX +noall +answer suckle ss.org ANY +shor

several arguments

Batch mode takes a filename as input; the file must be plain text and contain one domain per line:

\$ cat names.list

redhat.com
ubuntu.com
perdu.com

Output sections

HEADER

Displays the dig command version, the global options used, the type of operation (opcode), the status of the operation (NOERROR) and the message id (necessary to match responses to queries).



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