

Documentation links

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- [How To Configure BIND as a Private Network DNS Server on Ubuntu](#)
- [BIND 9 Administrator Reference Manual](#)

DNS query commands

- **dig** (**d**omain **i**nformation **g**roper)
- **nslookup**

DNS forward lookup

```
> dig learn.mi.hdmstuttgart.de
```

```
; <<>> DiG 9.16.1-Ubuntu <<>> learn.mi.hdmstuttgart.de
```

```
;; global options: +cmd
```

```
;; Got answer:
```

```
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 63891
```

```
...
```

```
;; ANSWER SECTION
```

```
learn.mi.hdmstuttgart.de. 6593 IN A 141.62.64.28
```

```
;; Query time: 0 nsec
```

```
;; SERVER: 127.0.0.53#53(127.0.0.53) ...
```

Display A-record result only

```
> dig +noall +answer www.hdm-stuttgart.de  
www.hdm-stuttgart.de. 3600 IN A 141.62.1.53  
www.hdm-stuttgart.de. 3600 IN A 141.62.1.59
```

Important record types

Record	Explanation
A	IPV4 Host address
AAAA	IPv6 host address
ALIAS	Auto resolved alias
CNAME	Canonical name for an alias
MX	Mail eXchange
NS	Name Server
PTR	Pointer
SOA	Start Of Authority
SRV	location of service
TXT	Descriptive text

Name Servers: Query type NS

```
dig +noall +answer -t NS hdm st ut t gart . de
hdm st ut t gart . de. 3600 IN NS iz- net - 4. hdm st ut t gart . de.
hdm st ut t gart . de. 3600 IN NS dns3. bel wue. de.
hdm st ut t gart . de. 3600 IN NS iz- net - 3. hdm st ut t gart . de.
hdm st ut t gart . de. 3600 IN NS dns1. bel wue. de.
hdm st ut t gart . de. 3600 IN NS iz- net - 2. hdm st ut t gart . de.
```