

nslookup Cheatsheet

By Dejan Panovski • Updated on Apr 11, 2026 • [Download PDF](#)

Quick reference for querying DNS records and checking name resolution with nslookup

The `nslookup` command queries DNS servers for domain and reverse lookup records. This cheatsheet covers quick host lookups, record type queries, reverse DNS, interactive mode, and a few practical troubleshooting checks.

Basic Syntax

Core `nslookup` command forms.

<code>nslookup example.com</code>	Look up a domain using the default resolver
<code>nslookup example.com 8.8.8.8</code>	Query a specific DNS server
<code>nslookup -type=mx example.com</code>	Query a specific record type
<code>nslookup 192.0.2.1</code>	Run a reverse DNS lookup
<code>nslookup</code>	Start interactive mode

Common Lookups

Quick checks for hostnames and addresses.

<code>nslookup example.com</code>	Look up A and AAAA records using the default resolver
<code>nslookup www.example.com</code>	Check a hostname or subdomain
<code>nslookup localhost</code>	Verify local name resolution
<code>nslookup 127.0.0.1</code>	Reverse lookup for the local loopback address
<code>nslookup 192.0.2.1</code>	Reverse lookup for a public IP address

Record Types

Use `-type` to query specific DNS records.

<code>nslookup -type=a example.com</code>	Query IPv4 address records
<code>nslookup -type=aaaa example.com</code>	Query IPv6 address records
<code>nslookup -type=mx example.com</code>	Query mail exchanger records
<code>nslookup -type=ns example.com</code>	Query authoritative name servers
<code>nslookup -type=txt example.com</code>	Query TXT records
<code>nslookup -type=soa example.com</code>	Query the SOA record
<code>nslookup -type=cname www.example.com</code>	Check whether a hostname is an alias
<code>nslookup -type=any example.com</code>	Run an ANY query

Specific DNS Servers

Compare answers from different resolvers.

<code>nslookup example.com 8.8.8.8</code>	Query Google Public DNS
<code>nslookup example.com 1.1.1.1</code>	Query Cloudflare DNS
<code>nslookup example.com 9.9.9.9</code>	Query Quad9
<code>nslookup -type=mx example.com 8.8.8.8</code>	Query MX records from a specific resolver
<code>nslookup -type=txt example.com 1.1.1.1</code>	Compare TXT answers between resolvers

Interactive Mode

Run multiple queries in one session.

<code>nslookup</code>	Open interactive mode
<code>set type=mx</code>	Switch the active query type to MX
<code>set type=txt</code>	Switch the active query type to TXT
<code>server 8.8.8.8</code>	Change the active DNS server
<code>example.com</code>	Query a domain after entering interactive mode
<code>exit</code>	Leave the interactive session

Troubleshooting

Quick checks for common `nslookup` errors.

<code>NXDOMAIN</code>	Verify the domain name and make sure it exists
<code>SERVFAIL</code>	Try another resolver such as <code>8.8.8.8</code> or <code>1.1.1.1</code>
Connection timed out; no servers could be reached	Check network access and verify <code>/etc/resolv.conf</code>
Non-authoritative answer	Normal cached response from a resolver
No answer	The queried record type is not set for that name

Related Guides

Use these guides for fuller DNS troubleshooting workflows.

nslookup Command in Linux	Full <code>nslookup</code> guide with practical examples
How to Use the dig Command to Query DNS in Linux	Detailed <code>dig</code> guide for deeper DNS debugging
ping Cheatsheet	Quick connectivity checks before DNS troubleshooting
IP command cheatsheet	Inspect interfaces, addresses, and routes
curl Cheatsheet	Test HTTP reachability after DNS resolution succeeds