

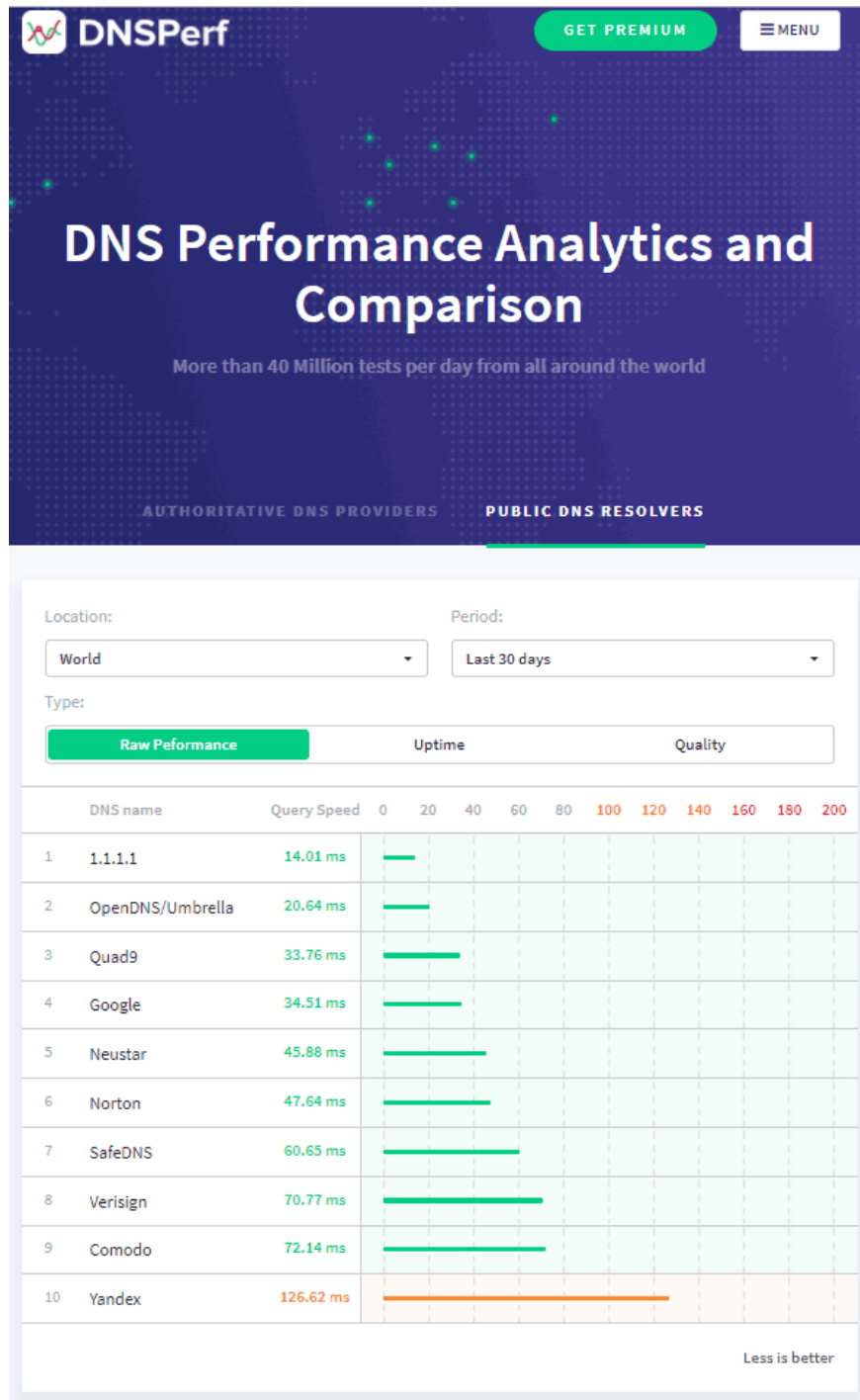
Compare Internet speed of DNS 1.1.1.1 with other popular DNS

Cloudflare announced the new DNS service 1.1.1.1 on April Fool's Day (1/4). However, the service is real and the company claims it is the fastest DNS service and privacy protection for users with a query speed that can be reached to a remarkable number, 14.01 ms.

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You can visit DNSPerf.com to see a table comparing DNS query speed 1.1.1.1 compared to other popular DNS. DNS is specific to each location, so your results may be different from the results of DNSPerf.

1. [Introducing DNS Resolver 1.1.1.1](#)
2. [Learn about DNS Hijacking and how to prevent it!](#)
3. [How to change DNS to surf faster](#)



(Click on image to see full size)

In order to compare Internet speed, the article will check with some popular DNS services at position 06109. First, do the DNS 1.1.1.1 and Quad9 services, using the IP address 1.1.1.1. of CloudFlare as the primary address and 1.0.0.1 as the secondary address along with the main DNS 9.9.9.9 of Quad and DNS 149.112.112.112 sub, the DNS cache of the router still works. Then, we set the DNS router cache feature to zero and run DNS Benchmark.

From the above test, we can see that the 1.1.1.1 address has a slower response time than the 1.0.0.1 secondary IP address, possibly because it is under pressure from early users. So you should set the 1.0.0.1 address as the primary address and 1.1.1.1 as the secondary address. One thing to note is that the Quad9's 8.8.8.8 address is faster than the 1.1.1.1 address in some runs on this test.

Finally, note that the 1.1.1.1 address registered on the MegaPath Networks network and 1.0.0.1 address is registered on the Cloudflare network. In general, from the above test, we can see that Quad9 and CloudFlare 1.1.1.1 have equal performance.

For home use, OpenDNS is another service that users need to consider. It uses 208.67.222.222 address as its primary address and 208.67.220.220 as a secondary address. There is also Norton ConnectSafe with many different levels of protection.

Typically, users do not use the IP address instead of the URL name but on the website <https://1.1.1.1> you can use both with the TLS HTTPS security key.

The primary and secondary IP addresses of DNS services used during comparison checks

Below is a list of 5 services used for comparison in this review.

Cloudflare 1.1.1.1 - speed and privacy, providing DNS over HTTPS

1. 1.1.1.1
2. 1.0.0.1

Google Public DNS - speed, provides DNS over HTTPS

1. 8.8.8.8
2. 8.8.4.4

See also: [Use Google Public DNS to speed up Internet connection](#)

Quad9 - privacy, speed, malware filtering, providing DNSSEC

1. 9.9.9.9
2. 149.112.112.112

Note, although the Quad9 provides completely separate secondary DNS based on IPV6 2620:fe::fe address, but DNS Benchmark does not support IPV6 so at this test it has Quad9 sub-DNS IP 149.112.112.112 .

1. How to transfer IPv4 addresses to IPv6
2. How to change DNS Quad9 to block malicious domain

OpenDNS - suitable for home use (part of Cisco), providing DNSCrypt

1. 208.67.222.222
2. 208.67.220.220

See also: OpenDNS - Speed ??up web browsing and more

Norton ConnectSafe - suitable for home use, does not provide DNS over HTTPS, DNSSEC or DNSCrypt

1. 199.85.126.20
2. 199.85.127.20

Comparison test results

This comparison test was done with the DNS Benchmark tool at position 06109 on the Cox Communication Internet with Cloudflare, Google, Quad9, OpenDNS and Norton ConnectSafe services. Below is a screenshot of the test results in 5 times.

Result 1: Click on the image to enlarge and see.

Domain Name Server Benchmark

DNS Benchmark

Precision Freeware by Steve Gibson

Introduction Nameservers Tabular Data Conclusions

Add/Remove Run Benchmark

Sort Fastest First Show Uncached

	Name	Owner	Status	Response Time
68. 9. 16. 30	...	...	...	...
68. 9. 16. 25	...	...	...	...
199. 85.127. 20	ULTRADNS	NeuStar, Inc., US	...	...
9. 9. 9. 9	QUAD9-AS-1	Quad9, US	...	...
156.154. 71. 1	ULTRADNS	NeuStar, Inc., US	...	...
4. 2. 2. 4	LEVEL3	Level 3 Parent, LLC, US	...	...
66. 92.224. 2	MEGAPATHS-US	MegaPath Corporation, US	...	...
204.117.214. 10	SPRINTLINK	Sprint, US	...	...
149.112.112.112	QUAD9-AS-1	Quad9, US	...	...
129.250. 35.251	COMMUNICATIONS-2914	NTT America, Inc., US	...	...
1. 0. 0. 1	CLOUDFLARENET	Cloudflare, Inc., US	...	...
216.254. 95. 2	MEGAPATHS-US	MegaPath Corporation, US	...	...
208. 67.222.123	OPENDNS	OpenDNS, LLC, US	...	...
129.250. 35.250	COMMUNICATIONS-2914	NTT America, Inc., US	...	...
4. 2. 2. 2	LEVEL3	Level 3 Parent, LLC, US	...	...
156.154. 71. 25	ULTRADNS	NeuStar, Inc., US	...	...
204. 97.212. 10	SPRINTLINK	Sprint, US	...	...
1. 1. 1. 1	MEGAPATHS-2 US	MegaPath Networks Inc., US	...	...
156.154. 71. 22	ULTRADNS	NeuStar, Inc., US	...	...
66. 92. 64. 2	MEGAPATHS-US	MegaPath Corporation, US	...	...
199. 2.252. 10	SPRINTLINK	Sprint, US	...	...
4. 2. 2. 6	LEVEL3	Level 3 Parent, LLC, US	...	...
8. 8. 4. 4	GOOGLE	Google LLC, US	...	...
8. 8. 8. 8	GOOGLE	Google LLC, US	...	...
208. 67.220.123	OPENDNS	OpenDNS, LLC, US	...	...
208. 67.222.222	OPENDNS	OpenDNS, LLC, US	...	...
208. 67.220.222	OPENDNS	OpenDNS, LLC, US	...	...
208. 67.220.220	OPENDNS	OpenDNS, LLC, US	...	...
68.100. 16. 25	...	...	...	...
4. 2. 2. 3	LEVEL3	Level 3 Parent, LLC, US	...	...
198.153.194. 1	ULTRADNS	NeuStar, Inc., US	...	...
208. 67.222.220	OPENDNS	OpenDNS, LLC, US	...	...
4. 2. 2. 5	LEVEL3	Level 3 Parent, LLC, US	...	...
68.100. 16. 30
156.154. 70. 1	ULTRADNS	NeuStar, Inc., US
199. 85.126. 20	ULTRADNS	NeuStar, Inc., US

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Second result:

Domain Name Server Benchmark

DNS Benchmark

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Introduction Nameservers Tabular Data Conclusions

Add/Remove Run Benchmark

Sort Fastest First Show Uncached

	Name	Owner	Status	Response Time
68. 9. 16. 30
68. 9. 16. 25
66. 92.224. 2
156.154. 71. 1
199. 85.127. 20
149.112.112.112
129.250. 35.251
1. 0. 0. 1
204.117.214. 10
9. 9. 9. 9
208. 67.222.123
156.154. 71. 25
216.254. 95. 2
4. 2. 2. 4
199. 2.252. 10
66. 92. 64. 2
129.250. 35.250
1. 1. 1. 1
4. 2. 2. 6
204. 97.212. 10
8. 8. 8. 8
4. 2. 2. 2
198.153.194. 1
8. 8. 4. 4
156.154. 71. 22
208. 67.220.123
208. 67.222.220
208. 67.220.220
208. 67.222.222
208. 67.220.222
68.100. 16. 25
4. 2. 2. 3
156.154. 70. 1
4. 2. 2. 5
68.100. 16. 30
156.154. 70. 25

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3rd result:

Domain Name Server Benchmark

DNS Benchmark

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Introduction Nameservers Tabular Data Conclusions

Add/Remove Run Benchmark

Sort Fastest First Show Uncached

	Name	Owner	Status	Response Time
68. 9. 16. 30	BLU-COI-22773-RDC	Cox Communications...	○	
68. 9. 16. 25	BLU-COI-22773-RDC	Cox Communications...	○	
4. 2. 2. 4	LEVEL3	Level 3 Parent, LLC, US	○	
66. 92.224. 2	MegaPath5-US	MegaPath Corporation, US	○	
199. 85.127. 20	ULTRADNS	NeuStar, Inc., US	○	
156.154. 71. 1	ULTRADNS	NeuStar, Inc., US	○	
9. 9. 9. 9	QUAD9-AS-1	Quad9, US	○	
129.250. 35.251	COMMUNICATIONS-2914	NIT America, Inc., US	○	
216.254. 95. 2	MegaPath5-US	MegaPath Corporation, US	○	
204.117.214. 10	SPRINTLINK	Sprint, US	○	
149.112.112.112	QUAD9-AS-1	Quad9, US	○	
1. 0. 0. 1	CLOUDFLARENET	Cloudflare, Inc., US	○	
156.154. 71. 25	ULTRADNS	NeuStar, Inc., US	○	
4. 2. 2. 2	LEVEL3	Level 3 Parent, LLC, US	○	
208. 67.222.123	OPENDNS	OpenDNS, LLC, US	○	
129.250. 35.250	COMMUNICATIONS-2914	NIT America, Inc., US	○	
204. 97.212. 10	SPRINTLINK	Sprint, US	○	
8. 8. 4. 4	GOOGLE	Google LLC, US	○	
4. 2. 2. 6	LEVEL3	Level 3 Parent, LLC, US	○	
66. 92. 64. 2	MegaPath5-US	MegaPath Corporation, US	○	
4. 2. 2. 3	LEVEL3	Level 3 Parent, LLC, US	○	
156.154. 71. 22	ULTRADNS	NeuStar, Inc., US	○	
68.100. 16. 25	BLU-COI-22773-RDC	Cox Communications...	○	
199. 2.252. 10	SPRINTLINK	Sprint, US	○	
208. 67.222.222	OPENDNS	OpenDNS, LLC, US	○	
1. 1. 1. 1	MegaPath2-US	MegaPath Networks Inc., US	○	
198.153.194. 1	ULTRADNS	NeuStar, Inc., US	○	
8. 8. 8. 8	GOOGLE	Google LLC, US	○	
208. 67.222.220	OPENDNS	OpenDNS, LLC, US	○	
208. 67.220.123	OPENDNS	OpenDNS, LLC, US	○	
208. 67.220.222	OPENDNS	OpenDNS, LLC, US	○	
156.154. 70. 25	ULTRADNS	NeuStar, Inc., US	○	
4. 2. 2. 5	LEVEL3	Level 3 Parent, LLC, US	○	
208. 67.220.220	OPENDNS	OpenDNS, LLC, US	○	
68.100. 16. 30	BLU-COI-22773-RDC	Cox Communications...	○	
4. 2. 2. 1	LEVEL3	Level 3 Parent, LLC, US	○	

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4th result:

Domain Name Server Benchmark

DNS Benchmark

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Introduction Nameservers Tabular Data Conclusions

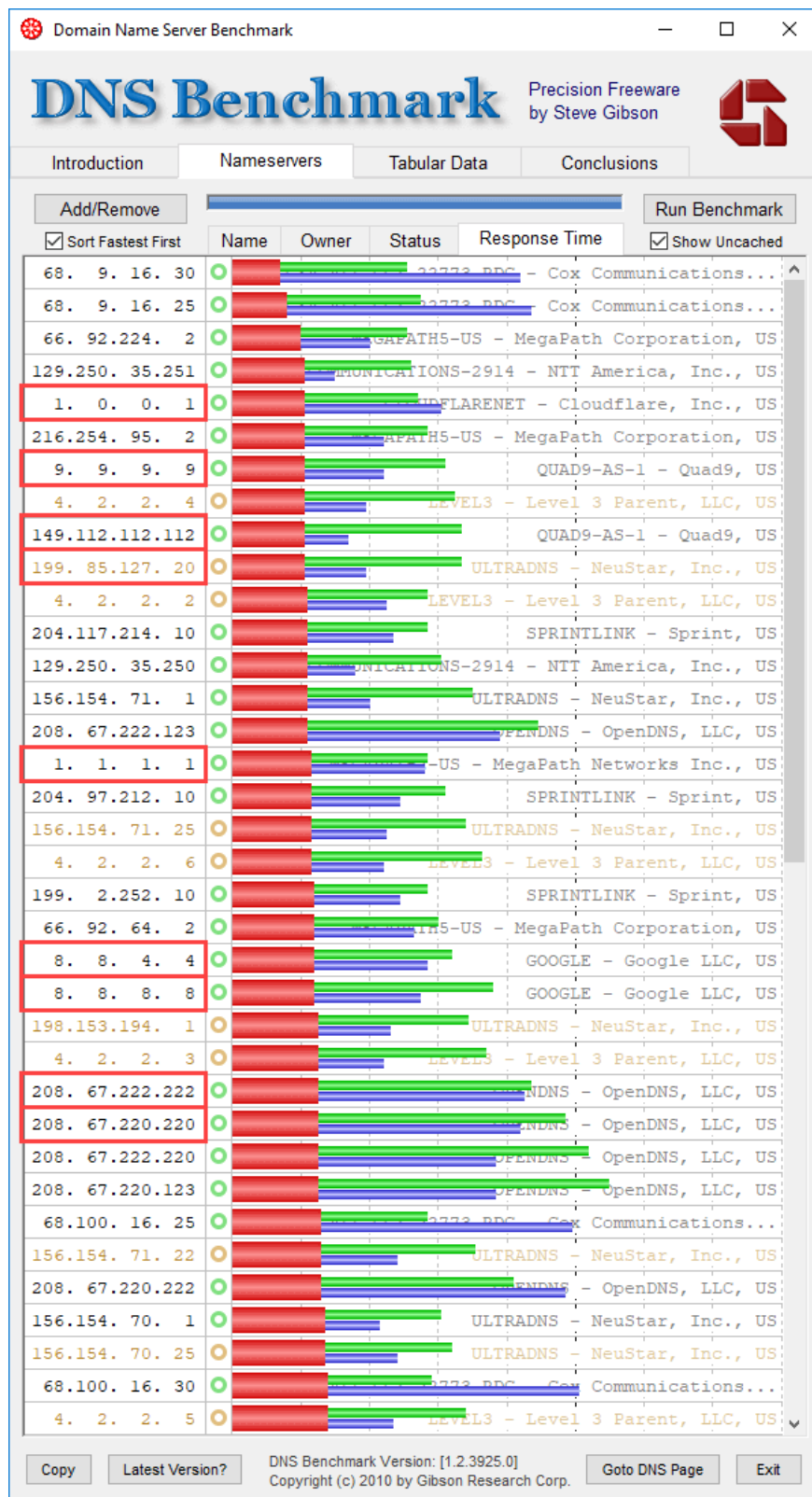
Add/Remove Run Benchmark

Sort Fastest First Show Uncached

	Name	Owner	Status	Response Time
68. 9. 16. 30	ALL-CCI-22773-RDC	Cox Communications...	○	
68. 9. 16. 25	ALL-CCI-22773-RDC	Cox Communications...	○	
66. 92.224. 2	MEGAPATH5-US	MegaPath Corporation, US	○	
1. 0. 0. 1	CLOUDFLARENET	Cloudflare, Inc., US	○	
149.112.112.112	QUAD9-AS-1	Quad9, US	○	
208. 67.222.123	OPENDNS	OpenDNS, LLC, US	○	
199. 85.127. 20	ULTRADNS	NeuStar, Inc., US	○	
4. 2. 2. 4	LEVEL3	Level 3 Parent, LLC, US	○	
216.254. 95. 2	MEGAPATH5-US	MegaPath Corporation, US	○	
9. 9. 9. 9	QUAD9-AS-1	Quad9, US	○	
129.250. 35.251	NTT-AMERICA-2914	NTT America, Inc., US	○	
204.117.214. 10	SPRINTLINK	Sprint, US	○	
1. 1. 1. 1	MEGAPATH2-US	MegaPath Networks Inc., US	○	
66. 92. 64. 2	MEGAPATH5-US	MegaPath Corporation, US	○	
199. 2.252. 10	SPRINTLINK	Sprint, US	○	
4. 2. 2. 2	LEVEL3	Level 3 Parent, LLC, US	○	
4. 2. 2. 6	LEVEL3	Level 3 Parent, LLC, US	○	
8. 8. 8. 8	GOOGLE	Google LLC, US	○	
156.154. 71. 1	ULTRADNS	NeuStar, Inc., US	○	
129.250. 35.250	NTT-AMERICA-2914	NTT America, Inc., US	○	
204. 97.212. 10	SPRINTLINK	Sprint, US	○	
156.154. 71. 25	ULTRADNS	NeuStar, Inc., US	○	
8. 8. 4. 4	GOOGLE	Google LLC, US	○	
198.153.194. 1	ULTRADNS	NeuStar, Inc., US	○	
208. 67.220.222	OPENDNS	OpenDNS, LLC, US	○	
208. 67.220.220	OPENDNS	OpenDNS, LLC, US	○	
208. 67.220.123	OPENDNS	OpenDNS, LLC, US	○	
156.154. 71. 22	ULTRADNS	NeuStar, Inc., US	○	
4. 2. 2. 3	LEVEL3	Level 3 Parent, LLC, US	○	
208. 67.222.220	OPENDNS	OpenDNS, LLC, US	○	
208. 67.222.222	OPENDNS	OpenDNS, LLC, US	○	
68.100. 16. 25	ALL-CCI-22773-RDC	Cox Communications...	○	
4. 2. 2. 5	LEVEL3	Level 3 Parent, LLC, US	○	
156.154. 70. 1	ULTRADNS	NeuStar, Inc., US	○	
68.100. 16. 30	ALL-CCI-22773-RDC	Cox Communications...	○	
156.154. 70. 25	ULTRADNS	NeuStar, Inc., US	○	

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The 5 th result:



Evaluation after performing the test

Based on the test results, we can see that all of these services are very fast. When turning on the router's DNS cache and surfing many different websites, we find some services faster than other page load time services.

That's why you need to take more tests and make sure there are no other systems on the same router network and perform each service check at different times of the day.

Note, the main DNS result is the same as the secondary DNS may be a bad sign, indicating that it uses the same infrastructure. In other words, you can even get the same line and if a DNS decreases, access to both will decrease.

See more:

1. The best top 10 Public DNS Server you should know now
2. How to change DNS to access Facebook faster, error free
3. Improve network security with DNS Server

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