
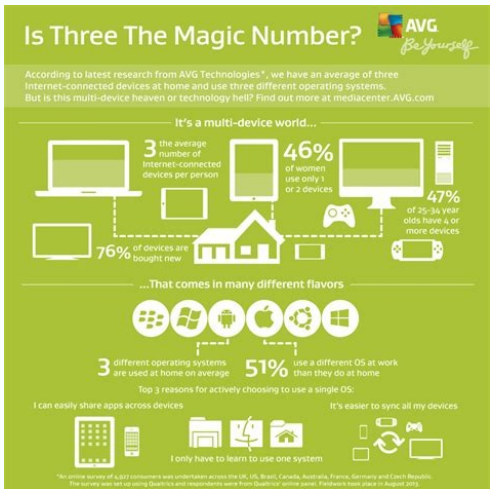


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Free and public DNS servers offer an alternative way to connect securely online with the added bonus of potentially speeding up your internet speed. DNS (Domain Name System) It is a system (or protocol) that translates domain names entered in a browser to the IP addresses needed to access such sites. Your ISP will assign you DNS servers every time you connect to the Internet, but these may not always be the best choice of the DNS server around you. Slow DNS servers can cause a delay before websites start loading, and if the server sometimes goes down, it may not be able to access any website. Switching to a free public DNS server can make a real difference, with more responsive browsing and long 100% uptime records which means there are much less chance of technical problems. Some services may also block access to phishing or infected sites, and some offer content filtering to keep your kids away from the worst of the web. You need to choose your service carefully - not all providers will necessarily be better than your ISP - but to help you point in the right direction, this article will highlight six of the best DNS servers around. The Domain Name System (DNS) is a telephone directory for the Internet, a framework that translates domain names, such as facebook. com or twitter. com, into the IP addresses needed by devices to load such Internet resources (e.g. 126.125.4.4). In geeky terms, it's called Resolution. The mechanics of DNS can be quite complicated, as the information is not contained in a single database, but rather distributed in a global directory with a large number of DNS servers. Fortunately, the average internet user normally does not have to be involved in any of the low-level technical details. Your ISP automatically provides you with access to a DNS server every time you go and every time you enter a URL in your browser, it will find the relevant IP address for you. Discover the best web hosting services. 1.1.1.1 is one of the many free services offered by (Image credit: Cloudflare) Best known for its top-rated CDN, Cloudflare has expanded its range to include a new public DNS service, the loudly named 1.1.1.1.Cloudflare has focused much more on fundamentals. These start with performance, and independent testing from sites like DNSPerf demonstrates Cloudflare is the fastest public DNS service out there. Cloudflare doesn't just promise that it won't use browsing data to serve ads; it promises that it will never write the query IP address (your) to disk. All existing records will be deleted within 24 hours. And these statements are not just reassuring words on a website. Cloudflare has kept KPMG to review its records every year and produce a public report to confirm the company is delivering on its promises.The 1.1.1.1 site has some installation guidelines, with simple tutorials covering Windows, Mac, Android, iOS, Linux and routers. These are very generic à you get a set of instructions for all versions of Windows, for example à but there are some advantages (IPv6 and IPv4 details) and you should be able to figure it out. In addition, mobile users can use WARP which protects all of their phone's internet traffic.The product does not offer any ad block or attempt to monitor what you can access and what you can't access. A warning is that Cloudflare has introduced malware content filtering and adult content blocking, with their services 1.1.1.2/1.0.0.2 and 1.1.1.3/1.0.0.3, respectively, but it is an option that a user can choose rather than force them.If you're having problems, Cloudflare offers a community forum where you can ask questions or see what others are doing, a nice touch.Described by Google as a "free global DNS resolution service" (image credit: Google Public DNS) Google Public It's a simple and effective replacement for your ISP.LA privacy nameservers you can't be quite enough "We keep nothing" promises from Cloudflare, but it's not bad. The service records the complete IP address of the querying device for approximately 24 to 48 hours for problem solving and diagnostic purposes. The 'Permanent'logs release any personally identifiable information and reduce the details of the location to the city level, and everything except a small random sample of this is deleted after two weeks. There is an additional advantage for users experienced in the detailed description of Google of the service. If you want to be able to evaluate the meaning of Google's privacy policy, for example, you can read about everything that service registers contain to find out for yourself. The Google Support Site offers only a basic guide targeted at experienced users, warning that "only users who are skilled in configuring operating system settings [should] make these changes." If you are not sure what you are doing, check the tutorial s of a provider like OpenDNS, remembering to replace its nameservers with Google's: 8.8.8.8 and 8.8.4.4. Read our full review of Google Public DNS. (image credit: Quad9)Quad9 is a young DNS outfit that from August 2016 provides a fast and free DNS service. The company sells on its ability to block evil domains by collecting intelligence from'a variety of public and private sources.' It is not clear what these sources are, but the website says that Quad9 has used 18+'intelligence providers'since December 2018. This is a little too vague for us, and we are not convinced that the use of a large number of intelligence providers threats will necessarily help. The quality of intelligence is generally more important than quantity. No doubt about Quad9's performance, though. DNS Perf currently evaluates seven out of ten for the world's average query times, in behind Cloudflare and OpenDNS, but effortlessly overtaking competitors like Comodo. Drilling in detail reveals some speed variations - Quad9 is in eighth eighth eighth for North American queries but overall the service still offers better performance than most. The configuration guide is a bit limited, with tutorial only for the latest versions of Windows and macOS. They are well presented, however, and it is not difficult to understand what to do. Read our full review of Quad9. (Credit Image: OpenDNS) Founded in 2005 and now owned by Cisco, OpenDNS is one of the largest names in the public DNS. The free service offers many advantages: high speed, 100% uptime, phishing sites blocked by default, optionally related to web-type filtering controls to block web sites by content type, along with free email support if something goes wrong. business plans allow you to view a history of your internet activity for up to the last year, and can optionally block the system by allowing access to specific websites only. These will not be essential features for the average user, but if you are interested, they may be yours for a small fee. If you are a DNS swap expert, you can start immediately by reconfiguring your device to use OpenDNS nameservers. If you are beginners, this is also good, as OpenDNS has configuration instructions for PC, Mac, mobile devices, routers and much more. Read our full review of OpenDNS. (Credit Image: Comodo) Comodo Group is the power of many products for security, so it is not surprising that the company also offers its own public DNS service. As one would expect, Comodo Secure DNS has a strong focus on security. Not only does it block phishing sites, but it also warns if you try to visit sites with malware, spyware, even parked domains that could overload you with ads (pop-up, popunders and more). In addition, you can try the Comodo Dome Shield service, which adds additional functionality to the Comodo Secure DNS. Comfortable that its service is smarter than average, too, detects attempts to visit parked or "not in use" domains and automatically forwards the user where you really want It is the key, of course, and the company suggests its global network of servers and smart routing technology gives it an advantage. Unfortunately, the convenient statistics were not so impressive, and in our tests, we got an average query time of about 72ms. This said, Comodo might still be interesting if you are looking for an extra layer of web filtering and the support website has some short but useful instructions on setting up the service on Windows, Mac, router and Chromebooks PC. read our complete review Comodo DNS Secure DNS. Doesn't your ISP DNS perform? Verisign is one of the many large companies that offer a free alternative DNS server can vary enormously in speed, especially in areas that do not always have the best Internet coverage (Africa, South America, Oceania) to make an example of a single day When we tested, Dnsperf. com reported CloudFlare got an average query time from 4.43 ms to Oceania, while Yandex was left dragged to 350.24ms. This is potentially more than a third of a second in extra waiting time before your browser is able to access any new website. This is an extreme example, to be fair. European or US research can see less than 30 ms variation between most DNS services, and as your device or router will probably store the address for subsequent reuse, this delay will also occur only very occasionally. However, a lazy DNS server can significantly slow down navigation in some situations and try an alternative -especially as the best options are all free- is generally a good idea. There is a second possible advantage in terms of uptime. If your DNS ISP server fails, you may not be able to access some or all of your favorite sites. The suppliers of big names like opendns have had the 100% of uptime returning years. DNS Speed depends on many factors, including location, distance from the nearest server and that server has enough bandwidth and power to manage all queries it receives. DNS Jumper is a portable freeware tool that tests more public services to find out what is the best performance for you. The program has many options, but it is not difficult to use. Start, click Fastest DNS > Start DNS Test, and in a few seconds you'll see a list of DNS services sorted by speed. DNS Jumper can be useful, especially because it's t to check how servers run from your location, but it doesn't run enough tests for a long enough time to give you a definitive answer. DNSPerf verifies several 200+ DNS services every minute worldwide and makes the results available free of charge on its website. This gives a good general idea of performance, and also allows you to see how services compare on different continents, as well as evaluate their operability. The steps involved in modifying the DNS service vary depending on your hardware and possibly the version of the operating system. In general, you need to start by finding the primary and secondary names for the DNS service you want to use. These IP addresses are normally displayed very clearly on the service site, so, for example, Cloudfole DNS uses 1.1.1.1 and 1.0.0.1. The easiest approach for home users is to update their router to use the new addresses. Most other devices will automatically collect the new DNS settings, without requiring additional work. To do this you need to log into the router (the default password can be printed on its base) and search for the current primary and secondary DNS servers. Make a note of the current values in case of problems, then replace them with the name servers you want to use. If you encounter problems, please check your DNS service website for any configuration guidance. Please note that you can also use tutorials from other DNS providers, as long as you remember to replace their nameserver IPs with your preferred options. OpenDNS, for It has a specific guide for many different types of routers on its support site. If the router changes are not right for your situation, you could To change the DNS configuration of each individual device. CloudFlare has a short and simple guide here, while the OpenDNS website goes deeper. If you are resolving your Internet connection, or perhaps thinking of changing DNS servers, it may be helpful to check which DNS servers you are currently using. The easiest way to do this is to visit Dnsleaktest.com and tap the Standard Test button. Within seconds the website will usually display the IP addresses of the DNS server, host names and sometimes (if appropriate) the name of your ISP. After that, life becomes more complicated as there are several potential options. Your device may be set up to use specific DNS servers; It might ask your router to give it the best DNS servers every time it boots; Or he might not know anything about the DNS servers and leave the router to handle everything. On Windows, you can start by entering IPCONFIG/ALL in a command line window. Look for your network adapter and you should see its DNS servers specified in the list. If there is a single DNS IP address pointing to the router it is à ""192.168.x.x à" which suggests that the router is handling all DNS queries. Enter that IP address in the browser, access the router if necessary, and the DNS servers should be listed in the settings. Now at every service, you get what you pay for and it's no different here. FREE DNS may be good but it's nothing compared to a premium paid version. Granted, not everyone wants to pay and depending on their needs they might not need it, but paid DNS is always a better choice. Apart from increasing the performance and security of the website, you also get additional features. For example, dynamic DNS and secondary DNS are a staple of the premium DNS service. Dynamic DNS works with dynamic IP addresses and allows users to access their own from anywhere in the world. The secondary DNS works as backup of sort which is always an advantage. This is just a small fraction fraction fraction. what a premium DNS can do and the exact number of functions will depend on the service provider. If your browser is telling you that it was not possible to find the IP address of the server of a website, even if you are sure that it is active and available, this may be due to a problem with your DNS. But you might not want to go through the trouble of changing your DNS service to find out. Windows users can use the nslookup command line tool. exe to view the results of any DNS server without touching their system settings. Run cmd. exe to open a command line window, then enter: nslookup web site. Then press Enter (replace website.com with the address of any website you are trying to reach). Nslookup uses your default DNS server to search the IP address of the website. com If it tells you you can't find a website. com, that means your DNS server doesn't have a record for that domain. Then, tell the tool to use another DNS service by inserting a command like: nslookup website. com 8.8.8 Address 8.8.8 uses Google DNS to replace this with any DNS service you want, such as 1.1.1.1.1.1 for Cloudflare. If nslookup returns errors using multiple servers, this does not look like a DNS problem. If one server returns an IP address and another does not, you should try configuring the system to use the working DNS and se e if it makes a difference. You might also want to look over our numerous web hosting guides: guides:

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