How to Switch to OpenDNS or Google DNS to Speed Up Web Browsing

By Taylor Gibb on June 23rd, 2013



<u>DNS servers</u> work by matching the domain names, you type, to their associated IP address. When you type a domain name into your browser, your PC contacts the DNS servers it has listed, the server looks up the IP address for that domain name, and then the PC can fire off its browsing request to that IP address.

Your ISP is in the business of providing you with Internet basically to make money. Naturally, they try to cram as many DNS's as possible out of the range that is available to them. Each time you connect to your ISP, it assigns you a dynamic IP address through which you connect to the Internet. This often creates slow relay speeds and connection issues.

Google, on the other hand, has their Public DNS Servers hosted in data centers worldwide, and they use "Any-cast" routing to send users to the geographically closest data center. Using your location, Google can easily re-route your Internet traffic to the nearest data center and Google's data centers are the best possible option compared to your ISP and these DND Servers are much faster and more reliable.

Right-click the network status icon in your system tray, and then click "Open the Network and Sharing Center" on the context menu.



In the "Network and Sharing Center" window, click the "Change adapter settings" link at the upper left.



In the "Network Connections" window, right-click the connection for which you want to change the DNS settings, and then click "Properties" on the context menu.



In the properties window, select "Internet Protocol Version 4 (TCP / IPv4)" on the list, and then click the "Properties" button.

🖞 Ethernet Properties 🛛 🗙
Networking Sharing
Connect using:
Intel(R) Ethemet Connection (2) I219-V
<u>C</u> onfigure
This connection uses the following items:
 Client for Microsoft Networks File and Printer Sharing for Microsoft Networks VirtualBox NDIS6 Bridged Networking Driver QoS Packet Scheduler Internet Protocol Version 4 (TCP/IPv4)
Microsoft Network Adapter Multiplexor Protocol
<
Install Uninstall Properties
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel

The bottom half of the "Internet Protocol Version 4 (TCP / IPv4) Properties" window shows the DNS settings. Select the "Use the following DNS server addresses" option. Next, type in the IP addresses for the preferred and alternate DNS servers you want to use. Here are the IP addresses for Google DNS and Open DNS:

Google DNS

Preferred: 8.8.8.8 Alternate: 8.8.4.4

OpenDNS

Preferred: 208.67.222.222 Alternate: 208.67.220.220

We're using Google DNS in our example, but feel free to use whichever you like. When you've typed in the addresses, click the "OK" button.

Internet Protocol Version 4 (TCP/IPv4) Properties	×
General Alternate Configuration	
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.	
Use the following IP address:	- 1
IP address:	
Subnet mask:	
Default gateway:	
○ O <u>b</u> tain DNS server address automatically	
Use the following DNS server addresses:	
Preferred DNS server: 8 . 8 . 8 . 8	
Alternate DNS server: 8 . 8 . 4 . 4	
Validate settings upon exit Advanced	
OK Cance	1

From now on, you should experience quicker and more reliable DNS lookups. While it's not going to make your browser suddenly screamingly fast or anything, every little bit helps.

https://www.howtogeek.com/164981/how-to-switch-to-opendns-or-google-dns-to-speed-up-webbrowsing/

Configuration for ASUS RT-AC68U

1. Access the router's browser-based utility.

Open a web browser and enter <u>http://192.168.1.1, http://192.168.0.1, http://192.168.0.2, or http://10.0.0.1</u> depending on the individual configuration.

2. Log into the browser-based utility.

The default username is "admin" and the default password, is "admin".

3. Choose the WAN menu under Advanced Settings on the left-hand side.

4. Under WAN DNS setting, enter 208.67.220.220 and 208.67.222.222 into "DNS Server 1 and DNS Server 2 respectively.

	Basic Config	
Parental Controls	WAN Connection Type	Automatic IP \$
USB Application	Enable WAN	⊙ Yes ● No
AiCloud 2.0	Enable NAT	es ● No
	Enable UPnP UPnP FAQ	e Yes ● No
Advanced Settings	Enable Internet Detect	⊙ Yes ● No
🛜 Wireless	WAN DNS Setting	
습 LAN	Connect to DNS Server automatically	🔿 Yes 💿 No
💮 wan	DNS Server1	208.67.220.220
💮 IPv6	DNS Server2	208.67.222.222
	Account Settings	
~	Authentication	None 🗘
Firewall	Special Requirement from ISP	
Administration	Host Name	
System Log	MAC Address	MAC Clone

5. Confirm that your LAN DNS server is not set. Do not configure OpenDNS here!

ISUS RT-AC68U Logout R	Reboot English 🔻
Operation Mode: Wireless router Setup	r Firmware Version: <u>3.0.0.4.374_4561</u> 용 ⓒ 속 요
LAN IP DHCP Server Route II	IPTV Switch Control
LAN - DHCP Server	
DHCP (Dynamic Host Configuration Pro	rotocol) is a protocol for the automatic configuration used on IP networks. The DHCP server
Guest Network can assign each client an IP address an up to 253 IP addresses for your local ne	and informs the client of the of DNS server IP and default gateway IP. RT-AC68U supports network.
Traffic Manager	the DHCP list FAQ
Basic Config	
Enable the DHCP Server	O Yes ● No
USB application RT-AC68U's Domain Name	
AiCloud	
IP Pool Ending Address	192.168.1.200
Advanced Settings Lease Time	86400
Wireless Default Gateway	
DNS and WINS Server Setting	Do not modify
DNS Server	
WINS Server	
IPv6 Enable Manual Assignment	
Enable Manual Assignment	• Yes O No
Firewall Manually Assigned IP around the DHCP I	P list (Max Limit : 64)
MAC address	IP Address Add / Delete
Administration	▼
System Log	No data in table.
Network Tools	Apply
🕼 Help & Support 🛛 Manual Utility	FAQ
	2014 ASUSTEK Computer Inc. All picks reserved

6. Check your settings.

NB. We have received reports that this router now includes an inbuilt security function called, "Ai-Protection - Network Protection." If enabled this may cause OpenDNS to not function

https://store.opendns.com/settings/

Visit internetbadguys.com. It should be blocked as a phishing site, or, it will tell you it's a demo site.

ASUS RT AC68U Manual

http://www.microcenter.com/tech_center/article/8207/how_to_configure_dns_servers_on_the_asus_rtac68u_wireless_router

1. Open a web browser, type **192.168.1.1** into the address bar, and then press **Enter**.



2. Enter the administrator username and password and then click OK. (The default username and password are both **admin**).

Vindows Secu	urity	>
iexplore		
The server 19 server report	92.168.1.1 is asking for your user name and password. The s that it is from RT-AC68U.	
Warning: Yo authenticatio	ur user name and password will be sent using basic	
admenticatio	on on a connection that isn't sectile.	
	admin	
	•••••	
	Remember my credentials	
-		
		_

3. the advanced menu on the left side, click **WAN**.



4. Next to Connect to DNS Server automatically, click No.



- 5. Additional fields will appear, prompting for the addresses of the DNS Servers you wish to use. For OpenDNS enter in **208.67.222.222** and **208.67.220.220**
- 6. Once addresses are entered, click the **Apply** button at the bottom of the page to save the changes.



Okay, what's next?

To ensure that OpenDNS is working properly for you, please flush your browser and DNS cache by using the steps below, then test your connection by visiting http://welcome.opendns.com.

http://www.opendns.com/support/article/67 http://www.opendns.com/support/article/68

How to Change Your Default DNS to Google DNS for Fast Internet Speeds

You increase your internet speed by changing your Default DNS to Google DNS

Steps to Manually Setup Google DNS In Windows PC

Step 1. First, in your windows PC go to the Control Panel and select Network and sharing center.

djust you	ir computer's settings								View by: Large
Adm	ninistrative Tools		AutoPlay	*	Back up and Restore (Windows 7)	-	BitLocker Drive Encryption	1	Colour Management
Cred	dential Manager	P	Date and Time	6	Default Programs	÷.	Device Manager	-	Devices and Printers
Disp	blay	•	Ease of Access Centre		File Explorer Options	0	File History	£	Flash Player (32-bit)
A Font	ts	•4	HomeGroup	R	Indexing Options	•	Internet Options		Keyboard
子 Lang	guage	٩	Mail (32-bit)	ð	Mouse	L.	Network and Sharing Center	V	Personalisation
Photos	ne and Modem	1	Power Options	G	Programs and Features	-	Realtek HD Audio Manager		Recovery
🔗 Regi	ion	-	RemoteApp and Desktop Connections	pe	Security and Maintenance	0	Sound	9	Speech Recognition
Stor	age Spaces	0	Sync Centre		System	8	Taskbar and Navigation		Troubleshooting
User	r Accounts	讄	Windows Defender		Windows Firewall	6	Work Folders		

Step 2. And there click on Change adapter settings.

Network and Sharing Center		
🗧 🔶 👻 🛧 💆 > Control	Panel > Network and Internet > Network a	and Sharing Center
Control Panel Home	View your basic network infor	mation and set up connections
Change adapter settings	View your active networks	
Change advanced s haring settings	Network Public network	Access type: Internet Connections: 🚇 Ethernet
	Change your networking settings	
	Set up a new connection or n Set up a broadband, dial-up o	etwork or VPN connection, or set up a router or access point.
1	Troubleshoot problems Diagnose and repair network	problems or get troubleshooting information.

Step 3. Now there you will see all networks, select the network that you want to configure for Google DNS.

If you have decided to try out Google's DNS and want to change ethernet settings, simply right-click on **Local Area Connection** and select **Properties**.

Ethernet Network			
Realtek PCIe G	•	Disable Status Diagnose	
	•	Bridge Connecti Create Shortcut	ons
	•	Delete Rename	
	•	Properties	

Step 4. Now click on Networking tab and there under This connection uses the following items select the option Internet Protocol Version 4 (TCP/IPv4) and then click on properties.

Realtek PC	Cle GBE Family Controller	
		Configure
his connection u	uses the following items:	57 BR 1
Client fo	r Microsoft Networks	1
File and	Printer Sharing for Microsoft	Networks
QoS Pa	cket Scheduler	
✓ <u>→</u> Internet	Protocol Version 4 (TCP/IPv	(4)
Microsof		
MICIOSUI	tt LLDP Protocol Driver	
✓ ▲ Link-Lay	tt LLDP Protocol Driver /er Topology Discovery Map	per I/O Driver
 ✓ Microsof ✓ Microsof ✓ Microsof 	tt LLDP Protocol Driver ver Topology Discovery Map ft Network Adapter Multiplexi	per I/O Driver or Protocol
Microsof Andrew Microsof Andrew Microsof A	tt LLDP Protocol Driver ver Topology Discovery Mapj ft Network Adapter Multiplex	per I/O Driver or Protocol
 ✓ Microsof ✓ Link-Lay ✓ Microsof < Install 	tt LLDP Protocol Driver ver Topology Discovery Mapj ft Network Adapter Multiplexo Uninstall	per I/O Driver or Protocol
 ✓ Microsof ✓ Link-Lay ✓ Microsof Install Description 	tt LLDP Protocol Driver ver Topology Discovery Mapj ft Network Adapter Multiplexo Uninstall	per I/O Driver or Protocol
Install	tt LLDP Protocol Driver ver Topology Discovery Mapj ft Network Adapter Multiplex Uninstall	per I/O Driver or Protocol
Link-Lay Link-Lay Link-Lay Link-Lay Link-Lay Lonstall Description Transmission C wide area netw	tt LLDP Protocol Driver ver Topology Discovery Map ft Network Adapter Multiplex Uninstall Control Protocol/Internet Prot vork protocol that provides c	per I/O Driver or Protocol Properties
Link-Lay Link-Lay Aicrosof Install Description Transmission C	tt LLDP Protocol Driver ver Topology Discovery Mapj ft Network Adapter Multiplex Uninstall	per I/O Driver or Protocol Properties

Step 5. Now choose the radio button **Use the following DNS server addresses** there and there will be written some default IP, simply clear them. Now there fill the value of google DNS value that is **8.8.8.8** or **8.8.4.4** and then simply click on "**OK**" and then restart your network.

	nternet F	Protocol Version 4 (TCP)	/IPv4) Prop	erti	es				0
	General	Alternative Configuration	n						
Th E E E	You car this cap for the	n get IP settings assigned ability. Otherwise, you n appropriate IP settings. otain an IP address auton	automatical eed to ask y natically	ly if our	your netw	net ork a	vork s admini	supports istrator	
	IP ac	idress:	s:	+.				1	
ġ	Subr	iet mask:						ī	
<	Defa	ult gateway:		\hat{i}	i.		i.		
C	⊖ Ot - ● Us Prefe Alter	otain DNS server address the following DNS serve erred DNS server: native DNS server:	automatical er addresses 8	ly s:	8.	8	. 8		1
	۵v	alidate settings upon exit			31		Adva	anced	

That's it! you are done. You are now surfing the Internet using Google DNS servers. You should observe the speed for a few days and if you are not satisfied you can always revert, back to the default ISP provided one by selecting Obtain DNS server address automatically.

The DNS server addresses for OpenDNS Home is 208.67.222.222, for the primary address and 208.67.220.220 for the secondary address.