

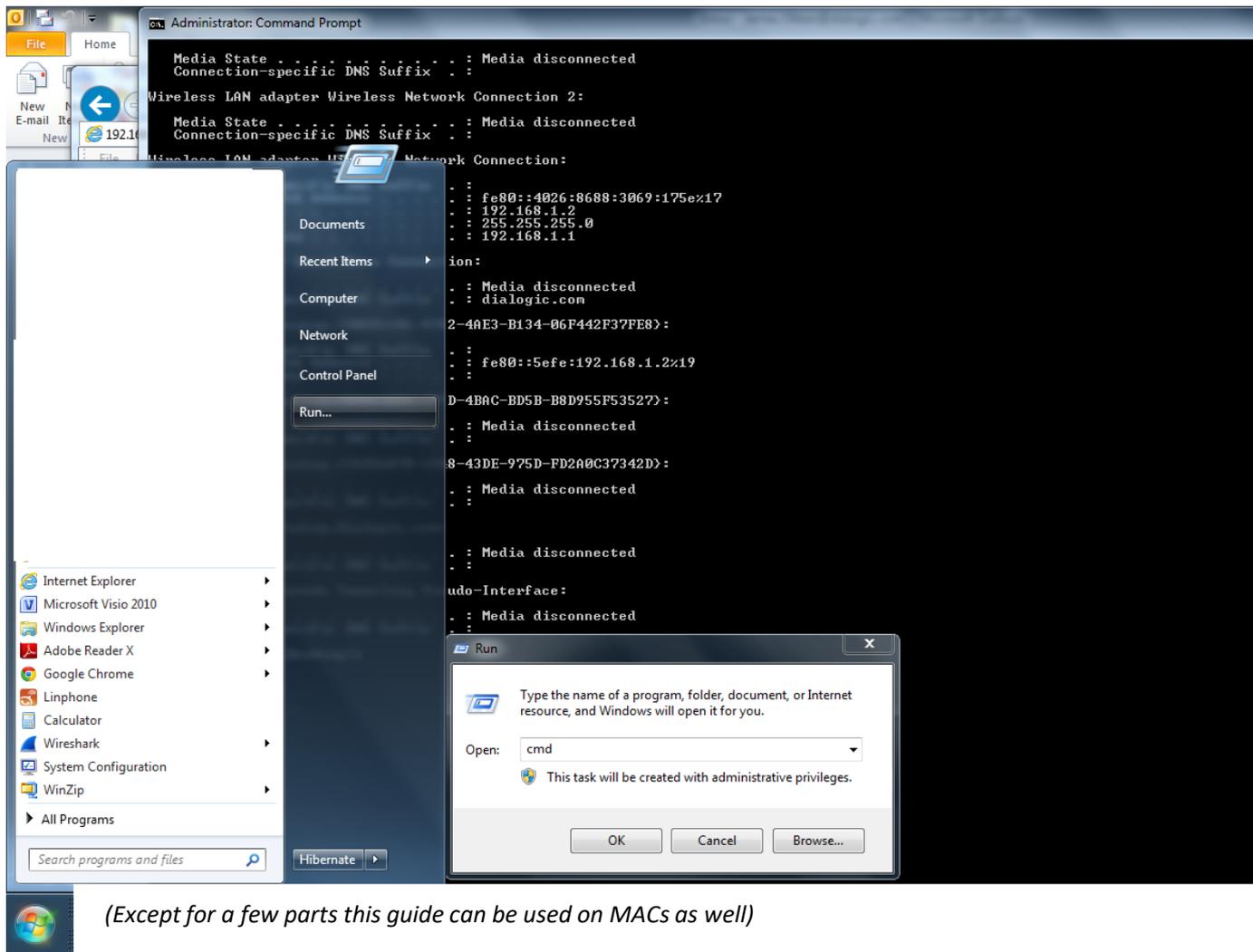
# New Router Configuration, Router Firmware Update, Parental Controls and OpenDNS installation

The word 'open' in OpenDNS does not mean open internet. It is a service which 'opens' the standard DNS function into a **filtering/** **accountability** service. See page 10.



\*Whole home protection,  
see pg. 13

This guide uses a Netgear WNR1000V3 but  
it should apply to other models and other brands



*(Except for a few parts this guide can be used on MACs as well)*

*We start out assuming you are connected to your router either by a ethernet wire or wifi*

First, find the ip address of your router by: 1. going to your start button,

2. Clicking the run option

3. Type 'cmd' into the run window and clicking 'ok'

```
Administrator: Command Prompt

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . :

Wireless LAN adapter Wireless Network Connection 2:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . :

Wireless LAN adapter Wireless Network Connection:

Connection-specific DNS Suffix . . . . . :
Link-local IPv6 Address . . . . . : fe80::4026:8688:3069:175e%17
IPv4 Address . . . . . : 192.168.1.2
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1

Ethernet adapter Local Area Connection:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . : dialogic.com

Tunnel adapter isatap.{D0ED1186-A7A2-4AE3-B134-06F442F37FE8}:

Connection-specific DNS Suffix . . . . . :
Link-local IPv6 Address . . . . . : fe80::5efe:192.168.1.2%19
Default Gateway . . . . . :

Tunnel adapter isatap.{D2A13BD4-CF9D-4BAC-BD5B-B8D955F53527}:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . :

Tunnel adapter isatap.{C6D2687D-1D48-43DE-975D-FD2A0C37342D}:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . :

Tunnel adapter isatap.dialogic.com:

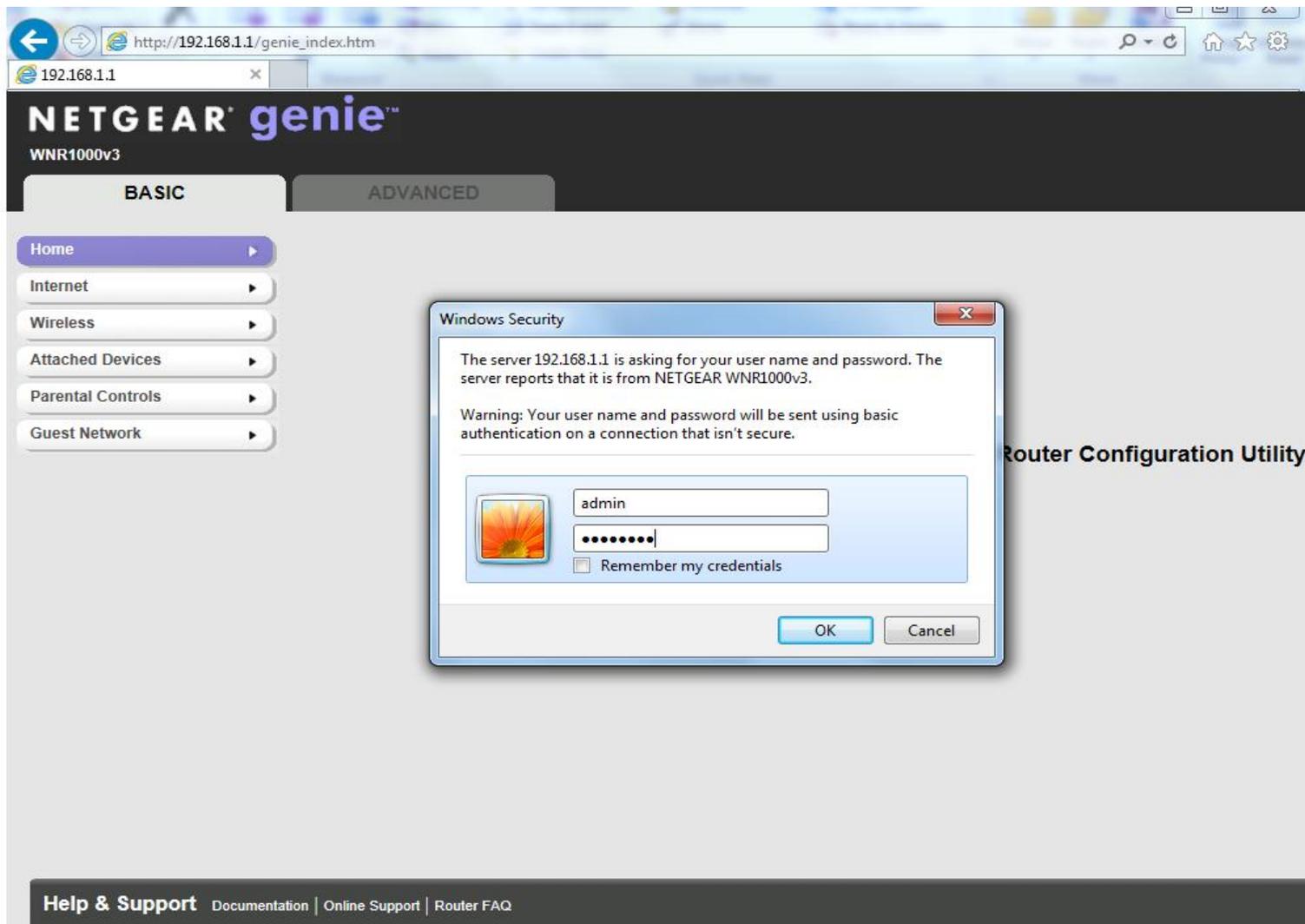
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . :

Tunnel adapter Teredo Tunneling Pseudo-Interface:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . :

C:\Users\jokken\Desktop>i
```

A black command line window will open. At the prompt type the command 'ipconfig' and hit <enter>. Find your router's IP address on the line that says 'Default Gateway'. Here it is 192.168.1.1.



Open a web browser and navigate to that address using the 'http://' prefix. In this example we typed 'http://192.168.1.1' and hit <enter>. You will need to enter a username and password, hopefully you have this written somewhere or your router's manual will tell you. (you are now on a webpage in your router)

**NETGEAR genie™**  
WNR1000v3

Logout  
Firmware Version V1.0.2.62\_60.0.87NA  
Auto

**BASIC** | **ADVANCED**

ADVANCED Home  
Setup Wizard  
WPS Wizard  
Setup  
Security  
Administration  
Router Status  
Logs  
Attached Devices  
Backup Settings  
**Set Password**  
Router Update  
Advanced Setup

### Set Password

Apply | Cancel

Old Password: [password field]

Set Password: [password field]

Repeat New Password: [password field]

Enable Password Recovery

Security Question #1\*: [dropdown menu: What is your oldest sister's first name?]  
Answer\*: [text field]

Security Question #2\*: [dropdown menu: What is your youngest brother's first name?]  
Answer\*: [text field]

\* = required information  
Last time password was recovered: [text field]

Help Center | Show/Hide Help Center

Help & Support | Documentation | Online Support | Router FAQ  
SEARCH HELP | Enter Search Item | GO

Let's step thru a typical router configuration. You'll see configuration option menu on the left. Yours will likely be different, but first we suggest you find the option to change your router's configuration webpage password. The default password isn't too secure but often has never been changed. You can skip this step if you know this has already been changed. Remember this password. When you click 'Apply', you may need to re-login with your new password.

## BASIC

## ADVANCED

Home ▶

Internet ▶

Wireless ▶

Attached Devices ▶

Parental Controls ▶

Guest Network ▶

## Wireless Settings

Apply ▶

Cancel

## Wireless Network

 Enable SSID Broadcast Enable Wireless Isolation

Name (SSID):

Region:

North America ▼

Channel:

Auto ▼

Mode:

Up to 150 Mbps ▼

## Security Options

 None WPA2-PSK [AES] WPA-PSK [TKIP] + WPA2-PSK [AES]

## Security Options (WPA2-PSK)

Passphrase:  (8-63 characters or 64 hex digits)

Next, we suggest you find the option to set or change your wifi connect password/key/passphrase. By default you may have no connect passphrase, or the connect passphrase is something very hard to remember. You can skip this step if you know this has already been changed. Make this passphrase something hard to guess but easy for you to remember. When you click 'Apply' your router will restart, (it may take a few minutes). If you're currently connected via wifi you'll lose your connection and you'll need to re-connect with your new passphrase. You will also need to re-login to the router config webpage.

The screenshot shows the Netgear Genie web interface for a WNR1000v3 router. The top navigation bar includes the Netgear logo, the model number, and a 'Logout' button. The firmware version is V1.0.2.62\_60.0.87NA, and the update mode is set to 'Auto'. The main interface is divided into 'BASIC' and 'ADVANCED' tabs, with 'ADVANCED' selected. A left-hand navigation menu lists various settings, with 'Router Update' highlighted. The 'Router Upgrade' page contains a 'Check for new version from the Internet.' section with a 'Check' button. Below this is a section for locating an upgrade file on the hard disk, featuring a text input field, a 'Browse' button, and 'Upload' and 'Cancel' buttons. A 'Help Center' link is visible at the bottom left of the main content area, and a 'Show/Hide Help Center' link is at the bottom right. The footer contains 'Help & Support' links for Documentation, Online Support, and Router FAQ, along with a search bar labeled 'SEARCH HELP' and a 'GO' button.

Next, find the option to update the software version (called firmware) on your router. Here it is the Advanced->Administration->RouterUpdate page. Click the “Check Online” button. If a new version is found, then there are important security and safety improvements available, follow the steps to install the update. Afterwards, your router will restart. Again you may need to re-login.

The image shows the Netgear Genie web interface for a WNR1000v3 router. The interface is divided into two main sections: the main dashboard and a detailed 'Schedule' configuration window.

**Main Dashboard (BASIC tab):**

- Navigation Menu:** Home, Internet, Wireless, Attached Devices, Parental Controls, Guest Network. A red arrow points from the 'Parental Controls' menu item to the Parental Controls tile.
- Internet Tile:** STATUS: GOOD. Includes details for the wireless network: SSID: 761s, Password: 0747016707470.
- Wireless Tile:** Shows the wireless signal icon.
- Attached Devices Tile:** Number of Devices : 2.
- Parental Controls Tile:** STATUS: NOT ENABLED.
- Guest Network Tile:** STATUS: NOT ENABLED.

**Schedule Configuration Window:**

- Days To Block:** A list of days with checkboxes:  Every day,  Sunday,  Monday,  Tuesday,  Wednesday,  Thursday,  Friday,  Saturday.
- Time Of Day To Block:** (use 24-hour clock).  All Day.
- Start Blocking:** [0] Hour [0] Min.
- End Blocking:** [0] Hour [0] Min.
- Buttons:** Apply, Cancel.

Get to know all your router options well, especially the parental control options. When you buy a new router make sure the box says it has parental controls. In the scheduling settings you can set the time of day to disable the internet. ie dinner time and/or 10pm. And the time of day to enable the internet, ie 7am. You can also select different options by day so you can turn off the internet all day on Sunday.

Please leave the router configuration page open until we use it on page 14 of this guide.

## Now we start to configure OpenDNS



Go to [www.opendns.com](http://www.opendns.com). OpenDNS was recently purchased by a bigger company, CISCO. CISCO still offers the same product under its CISCO Umbrella brand. Click the “Personal” products area.

The screenshot shows the OpenDNS website with a yellow header. The navigation bar includes the OpenDNS logo, a menu icon, and the word 'PERSONAL'. On the right, there is a search icon and the text 'SUPPORT' with an external link icon. Below the header, there are links for 'Parental Controls', 'Testimonials', 'Benefit Matrix', and 'Premium DNS'. The main content area features three service cards. The first card is for 'OpenDNS Family Shield' which is 'FREE' and described as 'Preconfigured to block adult content — set it & forget it', with a 'SETUP GUIDE' button. The second card is for 'OpenDNS Home' which is 'FREE' and described as 'Our classic, free service with customizable filtering and identity theft protection', with a 'SIGN UP' button. The third card is for 'OpenDNS Home VIP' which costs '\$19.95/year' and is described as 'OpenDNS Home package plus one year of usage stats & optional white-list mode', with a 'BUY NOW' button. A red arrow points to the 'BUY NOW' button.

PROTECT EVERY DEVICE IN YOUR HOME, INSTANTLY.  
OPENDNS SETTINGS APPLY TO EVERY DEVICE — laptops,  
smartphones, tablets, DVRs, game consoles, TVs, literally anything



*FYI: DNS = domain naming system/service*

*all browsing for webpages are routed thru a DNS server*

*everyone's ISP provides their router with 2 DNS servers to use*

*OpenDNS replaces the ISP's DNS servers with their own!*

*this allows control and monitoring over what is browsed/viewed*

Then choose “OpenDNS HOME VIP”. this is their product for both **filtering and accountability.**

## Get OpenDNS VIP

Tell us about yourself

● Already have an OpenDNS account? [Sign in](#) ↗

● New Customers:

All fields are required.

First Name:

Last Name:

Company Name:

Phone Number:

Email:

Zip:

Country:

[SEE PRICING](#)

Next, you will need to create an account and setup a yearly payment plan. For Company Name put something like “Home”. You may notice that you are asked to create an account both for CISCO Umbrella as well as your OpenDNS dashboard. It is OK to use the same username (email address) and password for both.

Your current IP is 68.196.62.201. [\(Sign out\)](#)

[OpenDNS.com](#) [Dashboard](#) [Community](#)

# OpenDNS dashboard

[HOME](#) [STATS](#) [SETTINGS](#) [MY ACCOUNT](#) [SUPPORT](#) [TELL A FRIEND](#)

 Thanks for choosing OpenDNS! Looking for productive ways to pass the time? Please join our active community to help make the OpenDNS service better for everyone by contributing your votes on [Domain Tagging](#). It's easy and all it takes is a few clicks — [start today!](#)

Welcome, Global System Status: **Online**

**Personal networks**

 <b>Stats &amp; Logs</b> No networks have stats.	 <b>Settings</b> 0 networks ( <a href="#">Add network</a> )
--	---

[Manage this organization](#) ▾  
Plan: OpenDNS VIP

 <b>Stats &amp; Logs</b> No networks have stats.	 <b>Settings</b> 0 networks ( <a href="#">Add network</a> )
--	---

**Alert:** This organization has no networks assigned to it. [Add a network](#) to take advantage of your paid subscription features!

**OpenDNS Blog** 



**Automating Umbrella Using Kaseya**  
by [Dima Kumets](#) (April 30, 2014)  
As a product manager, conferences are incredible opportunities to talk to customers

**Share OpenDNS**

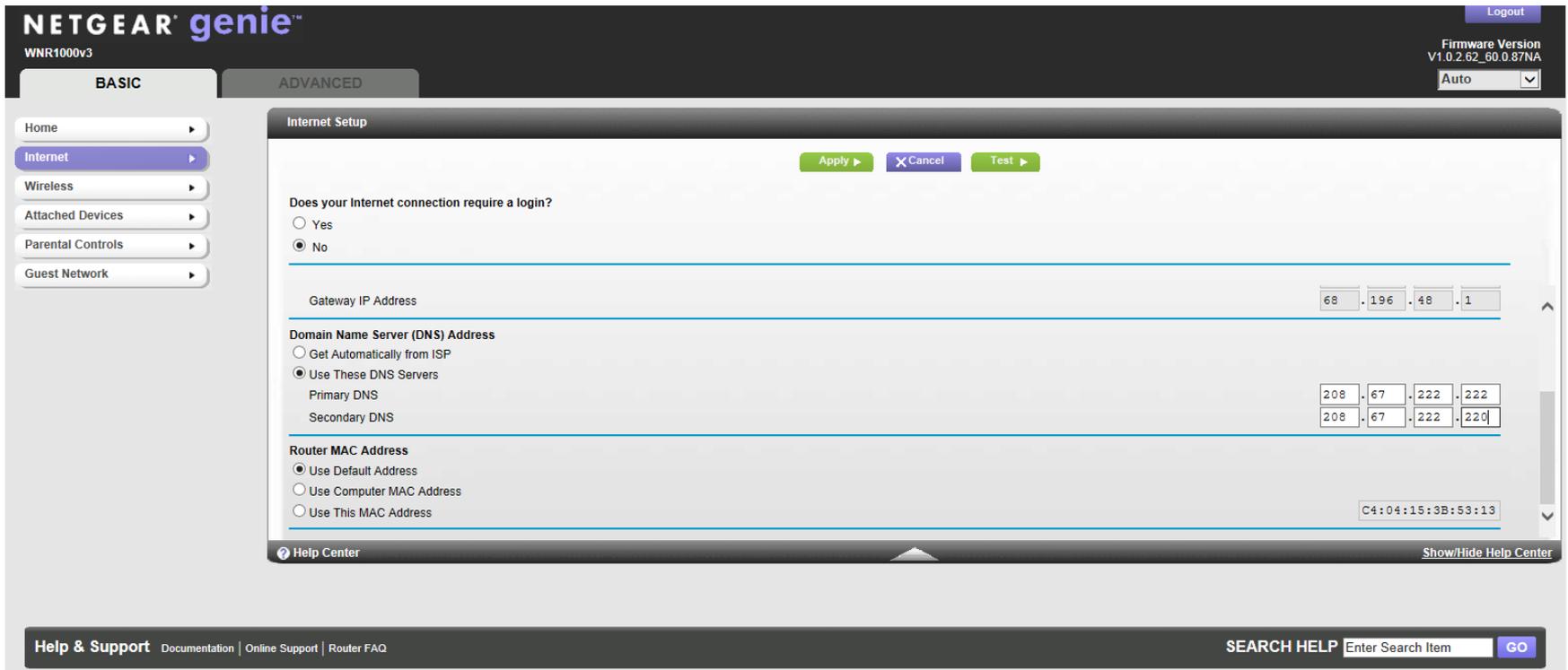
- New!** Spread the word about OpenDNS:
  -  [Twitter](#)
  -  [Facebook](#)

**Support:** [Knowledge Base](#) | [CacheCheck](#) | [System Status](#) | [Forums](#)    **News & Notes:** [OpenDNS Blog](#) 

Connect:   

The OpenDNS nameservers are **208.67.222.222** and **208.67.220.220**.

After your account is created you will be brought to your Dashboard screen. Write down the IP addresses for the OpenDNS servers listed at the bottom of the screen. 208.67.222.222 and 208.67.220.220.



Back on your router configuration website find the page where you setup your internet connection and DNS. Select the option to use your own DNS servers. Enter the two OpenDNS server IP addresses that you wrote down. Hit apply. Your router may report it needs to restart.

\*The changes we are making here, on your router, protect any device connecting to the internet thru you home wifi or ethernet wires. (note: this does not include devices which can use alternately cellular data (cellular 3G/4G is an outside network)).

Your current IP is 68.196.62.201. (Sign out)

OpenDNS.com Dashboard Community

# OpenDNS dashboard

HOME STATS SETTINGS MY ACCOUNT SUPPORT TELL A FRIEND

⚠ Thanks for choosing OpenDNS! Looking for productive ways to pass the time? Please join our active community to help make the OpenDNS service better for everyone by contributing your votes on [Domain Tagging](#). It's easy and all it takes is a few clicks — [start today!](#)

Welcome, . Global System Status: **Online**

**Personal networks**

Stats & Logs No networks have stats.	Settings 0 networks ( <a href="#">Add network</a> )
---	--

[Manage this organization](#) ▾  
Plan: OpenDNS VIP

Stats & Logs No networks have stats.	Settings 0 networks ( <a href="#">Add network</a> )
---	--

**Alert:** This organization has no networks assigned to it. [Add a network](#) to take advantage of your paid subscription features!

### OpenDNS Blog

 **Automating Umbrella Using Kaseya**  
by Dima Kumets (April 30, 2014)  
As a product manager, conferences are incredible opportunities to talk to customers and partners face-to-face. This year's ...

 **For Managed Services, Always Carry an Umbrella**  
by Dima Kumets (April 25, 2014)

### Share OpenDNS

- New! Spread the word about OpenDNS:
  - [Twitter](#)
  - [Facebook](#)
  - [LinkedIn](#)
- [Tell a friend](#) about OpenDNS.
- Share this link at your company or

Next we need to configure your dashboard. Click “Add network” under your organization. Also, it would be good to write down and save your network’s IP address (the internet address given to your router by your ISP) displayed on the top of your screen. Here our current IP is 68.196.62.201.

OpenDNS.com | Dashboard | Community

OpenDNS dashboard

HOME | STATS | SETTINGS | MY ACCOUNT | SUPPORT | TELL A FRIEND

Settings for: -- Select an organization --

**Dynamic IP addresses**  
OpenDNS supports networks ranging from single IP addresses, dynamic or static, on up to /16. [Learn more](#) about dynamic IPs.

**Network verification**  
For individual IP addresses, verification is self-service, if you can click on a link from the network IP address. Networks larger than a single IP address are verified by OpenDNS employees reviewing account info and public records (like whois).

**Add a network**

IP: 68 . 196 . 62 . 201 / 32 (1 IP Address)

Organization: Home

ADD THIS NETWORK

Home »

No networks have been assigned to none. Add a new one above.

**You don't have any networks yet — add one!**

It is important that you add a network in order to experience the full benefits of OpenDNS. A network may be a single IP address (static or dynamic) or a full range of IP addresses, depending on the size of your network.

**Have a dynamic IP? Use our software to keep your account updated.**

If you are a home user, your current IP address is located in the upper-right when logged in to your OpenDNS account. Most home users have a dynamic IP address, meaning that it changes occasionally. We recommend that you use our [client-side software](#) to keep your dynamic IP updated for your network.

You will be brought to the Settings tab. Add your network to your organization. Here we add our network to the Home organization.

**You've successfully added a network! Just a few more steps and you're home free.**

1. Give it a friendly name:   
Something simple like "Office" or "Home" will do.
2. Is this a dynamic IP address? [What is a dynamic IP address?](#)  
 Yes, it is dynamic
3. Download the software and stay safe. The OpenDNS Updater software ensures that your OpenDNS preferences are preserved whenever your IP address changes.

 [OpenDNS Updater for Windows](#)

» [Updater for other platforms](#)

DONE

You will see a pop up screen asking to give this network a name. Using something like "Home" again will work. Keep "Yes it is dynamic" checked. And we will cover the OpenDNS Updater software later in slide 22.

Settings for:  [Add/manage networks](#)

- Web Content Filtering
- Security
- Customization
- Stats and Logs
- Advanced Settings

**Users can contact you**  
Your users can contact you directly from the block page if they have questions. It'll show up as an email in your inbox.

**Note about DNS forwarding**  
If you are forwarding requests to OpenDNS, domain blocking may not work properly if the domain's address is in your forwarder's cache.

**Check a domain**  
[Find out](#) whether it would be blocked, and why.

**Support Articles**

## Web Content Filtering

### Choose your filtering level

- Whitelist Only** Enabling this feature will **block all websites** except those listed below under your "Never block" individual domains.
- High** Protects against all adult-related sites, illegal activity, social networking sites, video sharing sites, and general time-wasters. [26 categories in this group - View - Customize](#)
- Moderate** Protects against all adult-related sites and illegal activity. [13 categories in this group - View - Customize](#)
- Low** Protects against pornography. [4 categories in this group - View - Customize](#)
- None** Nothing blocked.
- Custom** Choose the categories you want to block.

[APPLY](#)

### Manage individual domains

If there are domains you want to make sure are always blocked (or always allowed) regardless of the categories blocked above, you can add them below.

[ADD DOMAIN](#)

You will be taken to the screen where you can set your filtering level to High or Moderate. Also, you can set whitelisted (never blocked websites) and blacklisted (always blocked websites, like hulu, netflix, youtube and facebook). Click 'Apply', wait 3 minutes for the settings to become active. Test your filtering by going to sites you want to be blocked.

Your current IP is 68.196.62.201. [\(Sign out\)](#)

[OpenDNS.com](#) [Dashboard](#) [Community](#)

# OpenDNS dashboard

[HOME](#) [STATS](#) [SETTINGS](#) [MY ACCOUNT](#) [SUPPORT](#) [TELL A FRIEND](#)

Settings for:  [Add/manage networks](#)

- [Web Content Filtering](#)
- [Security](#)
- [Customization](#)
- [Stats and Logs](#)**
- [Advanced Settings](#)

### Stats and Logs

**Enable stats and logs**  
OpenDNS gives you the choice to turn on (or off) data collection. If you disable this feature, we will stop logging your DNS lookups on a go-forward basis. Your charts and stats will reflect this choice: there will be no data from that point forward.

[APPLY](#)

### Purge DNS data

This button simply deletes all the DNS data we have for this network up to this point in time. Think of it as a way of resetting your stats to zero.

[PURGE MY DATA!](#)

Support: [Knowledge Base](#) | [CacheCheck](#) | [System Status](#) | [Forums](#)    News & Notes: [OpenDNS Blog](#)

Connect: [t](#) [in](#) [f](#)

The OpenDNS nameservers are 208.67.222.222 and 208.67.220.220.

Under the 'Stats and Logs' section of the settings, check the box to 'Enable stats and logs' and click 'Apply'.

Your current IP is 68.196.62.201. (Sign out)

OpenDNS.com | Dashboard | Community

OpenDNS dashboard

HOME STATS SETTINGS MY ACCOUNT SUPPORT TELL A FRIEND

### Domains

Domains for home (68.196.62.201) from 2014-04-29 to 2014-05-06 or choose a single day Apply

Filter: View only requests that were blocked

RANK	DOMAIN	REASON	REQUESTS
1	<a href="http://www.guns.com">www.guns.com</a>	Weapons	5
This domain is categorized as Weapons, which you blocked. You can <a href="#">make an exception for this domain</a> or <a href="#">unblock this entire category</a> .			
2	<a href="http://ib.adnxs.com">ib.adnxs.com</a>	Adware	2
3	<a href="http://www">www</a>	Lewd ...	1

Support: [Knowledge Base](#) | [CacheCheck](#) | [System Status](#) | [Forums](#) News & Notes: [OpenDNS Blog](#)

Connect: [Twitter](#) [LinkedIn](#) [Facebook](#)

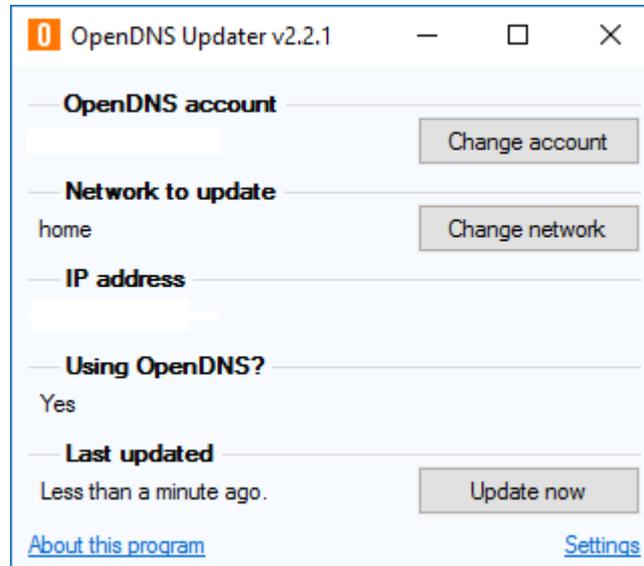
The OpenDNS nameservers are 208.67.222.222 and 208.67.220.220.

Now, under the 'Stats' tab you will be able to view a wide range of information regarding what web sites were visited, or were attempted to be visited, via your router. These lists have a delay, it may take a day for all recent activity to appear. It is suggested to scan through your families activity, or blocked activity, every week or so.

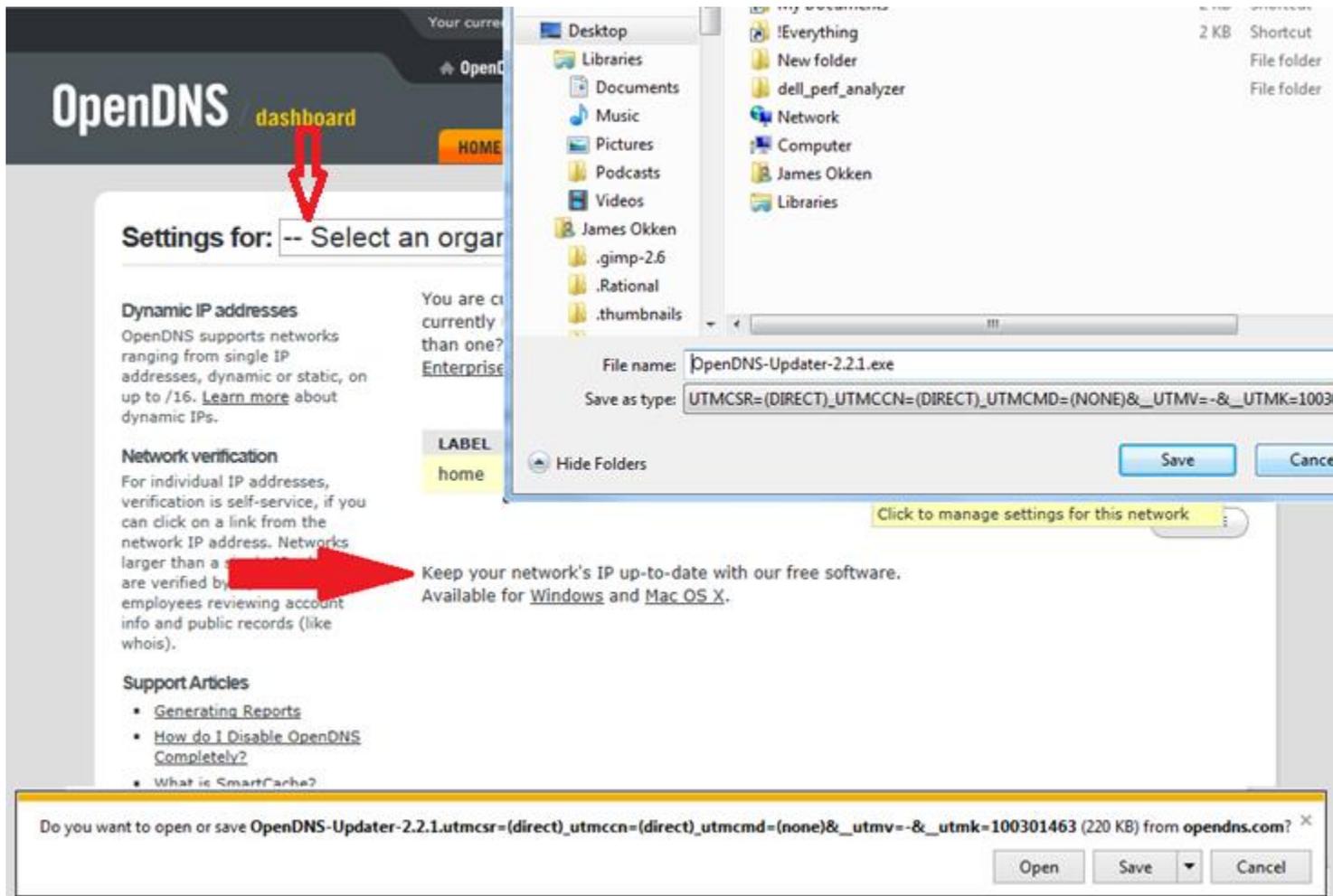
Get to know this Control Panel so you are comfortable changing **filter settings** and so you are able to easily view/filter **accountability data** (websites that were browsed for).

**Almost everything is done now.**

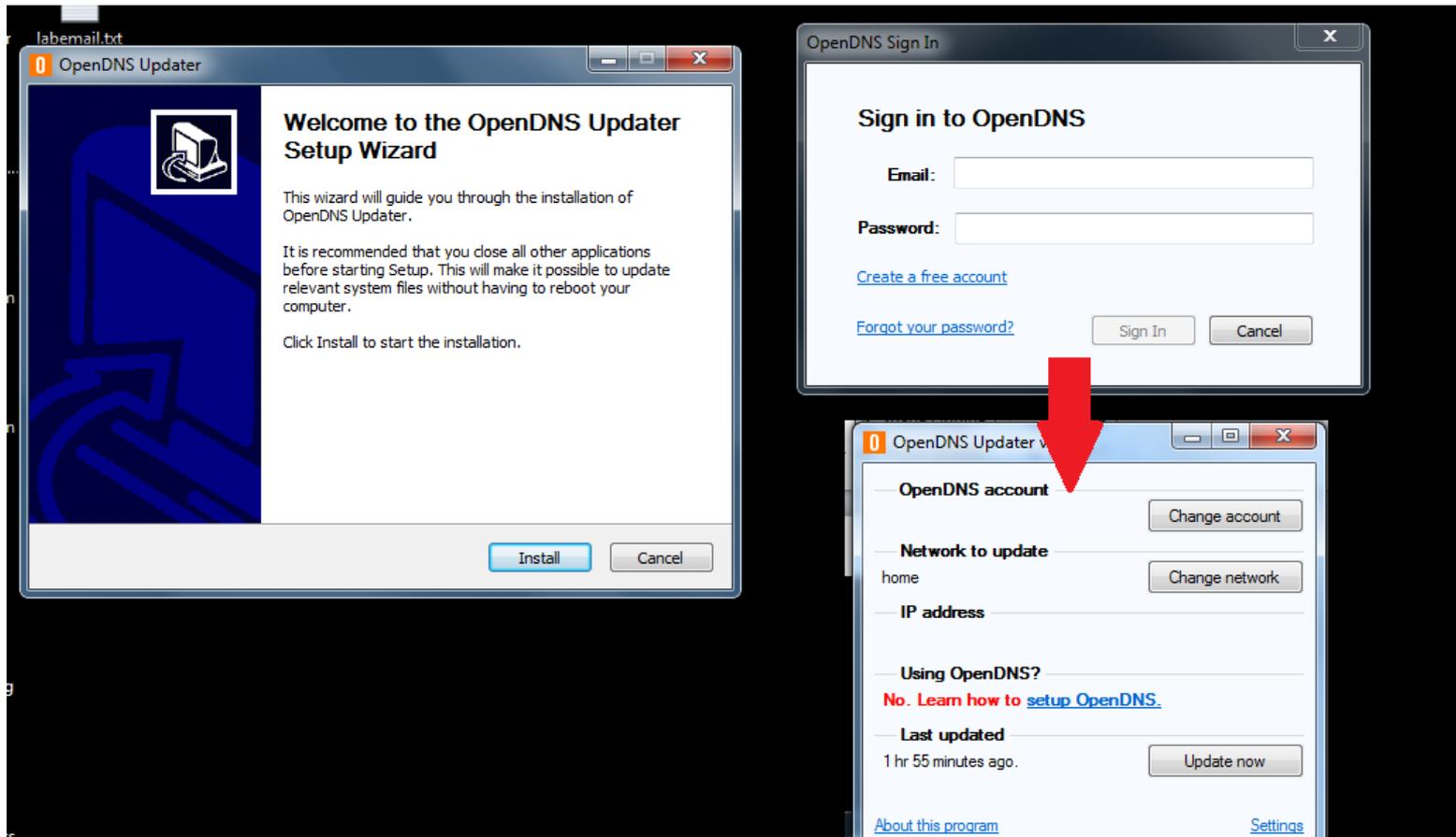
**One final thing:**



Sometimes your ISP may change your network's IP address (the address we previously saw at the top of the dashboard, 68.196.62.201). This is the network you added to your organization). If your ISP changes this, OpenDNS will no longer be monitoring the correct network. A piece of software will watch for this and automatically change the network under your organization if this does happen. Install this "OpenDNS-Updater" software on your most often used computer.



Near the bottom of the main 'Settings' window click the option to download the OpenDNS-Updater. Installing this is an important step. Download and save the installer to a folder location you know.



Navigate to where you saved the OpenDNS-Updater installer and double-click it to start the installation. When complete enter in your OpenDNS account information to connect it to your account/network (this may have been automatically done already). After this you can just leave this small program, it runs in the background and automatically starts on reboot.

The installation was completed successfully.



**The installation was successful.**

The software was installed.

Go Back

Close

**OpenDNS setup is COMPLETE!**