



Alan German & Chris Taylor
Ottawa PC Users' Group

October 19, 2022

The Last Ten...



The last ten minutes of our Q&A session will not have any prepared material - so, give some thought to the question that you want to ask!

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Follow-up

Wrong again!

Live / Russia-Ukraine war: 'There are four new areas of Russia,' says Putin ahead of formal annexation of occupied Ukraine territories

2m ago Putin accuses the United States of being responsible for creating t...

9m ago Putin says Russia is a great country with a great civilisation that refuses t...

15m ago Putin accuses west of attempting to turn Russia into its 'colony'. Putin echoes ...

Zaporizhzhia / Dozens killed after Russian strike on civilian convoy

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Climate crisis

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Obituaries

Headlines

ottawa

Now 16°C

00:00 03:00 06:00 09:00

12°C

11°C

11°C

13°C

View full forecast

Russia-Ukraine war / Putin appears to admit severe Russian losses in Ukraine

Ukrainian army making 'fast and powerful progress' in south, says Volodymyr Zelenskyy

At a glance What we know on day 224 of the invasion



Oil Price / Biden administration angered by Opec+ output cut



Alec Baldwin / Actor settles lawsuit with family of cinematographer killed on film set



Florida / Hurricane Ian 'ends discussion' on



North Korea / Another ballistic missile has been fired, South says



Air Pollution / Toxic particles found in lungs and brains of unborn babies



Dream Act / US court ruling leaves over 600,000 children of immigrants in jeopardy



Netanyahu / Israel's former PM hospitalised with chest pains during Yom Kippur



100% 8:38 PM

Replying on mailing lists

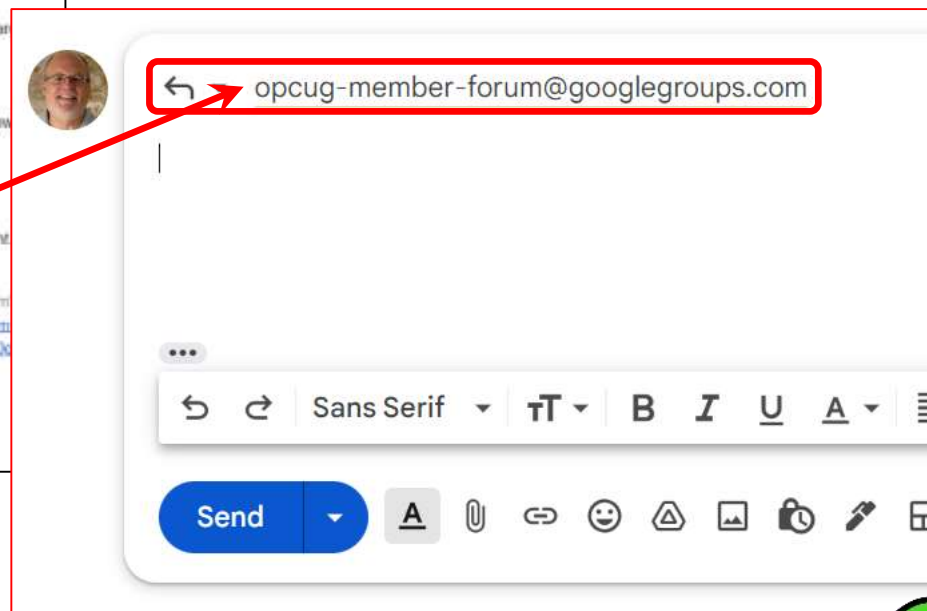
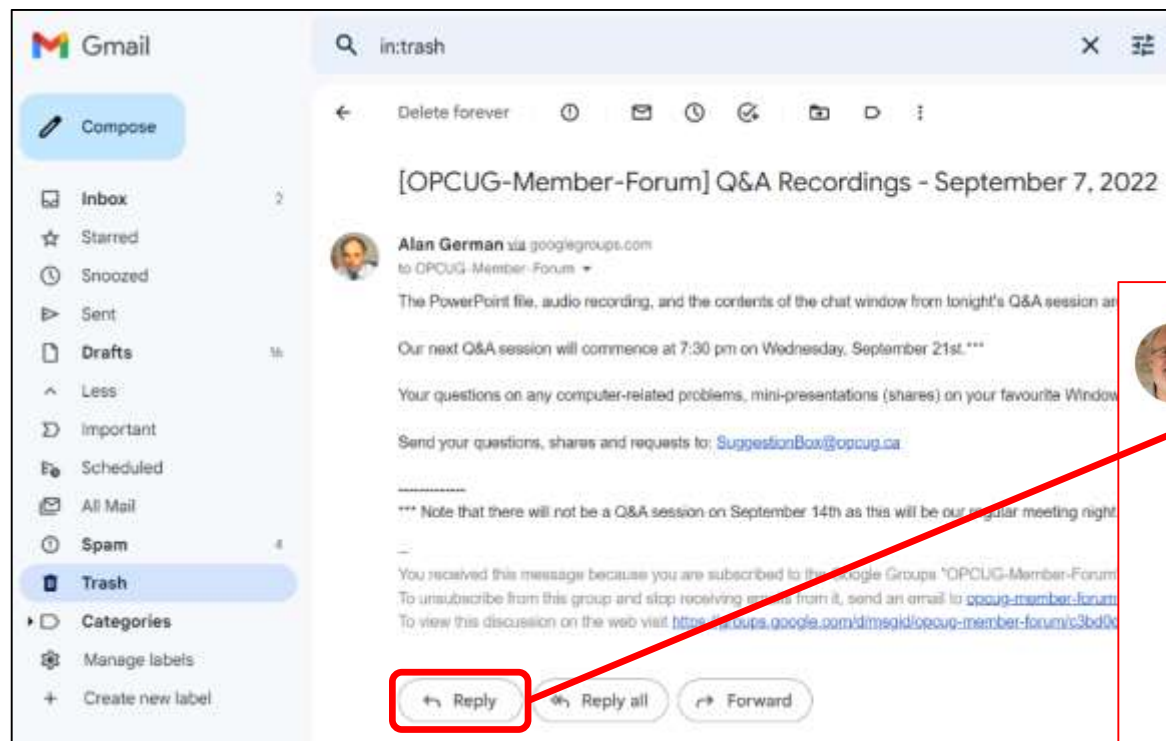
- Collaborating on mailing lists
 - e.g. OPCUG-Member-Forum
- Best if replies get sent to the list
 - and therefore distributed to everyone on the list rather than just to the person being replied to
- Mailing lists normally configured with a header line
 - Reply-To: <the mailing list email address>

```
Message-Id: <14ad08c0-54a8-40b6-b43e-4cce0f375820n@googlegroups.com>  
Subject: [OPCUG-Member-Forum] Q&A Recordings - August 31, 2022  
MIME-Version: 1.0  
Content-Type: multipart/mixed;  
    boundary="-----_Part_80_923435010.1661994040537"  
X-Original-Sender: alan.german@opcug.ca  
Reply-To: opcug-member-forum@googlegroups.com  
Precedence: list  
Mailing-list: list opcug-member-forum@googlegroups.com; contact opcug-member-forum@googlegroups.com  
List-ID: <opcug-member-forum.googlegroups.com>  
X-Spam-Checked-In-Group: opcug-member-forum@googlegroups.com
```

Instructs mail programs where replies should go

Share

Most email clients follow the rules



Reply goes to mailing list rather than Alan (originator)

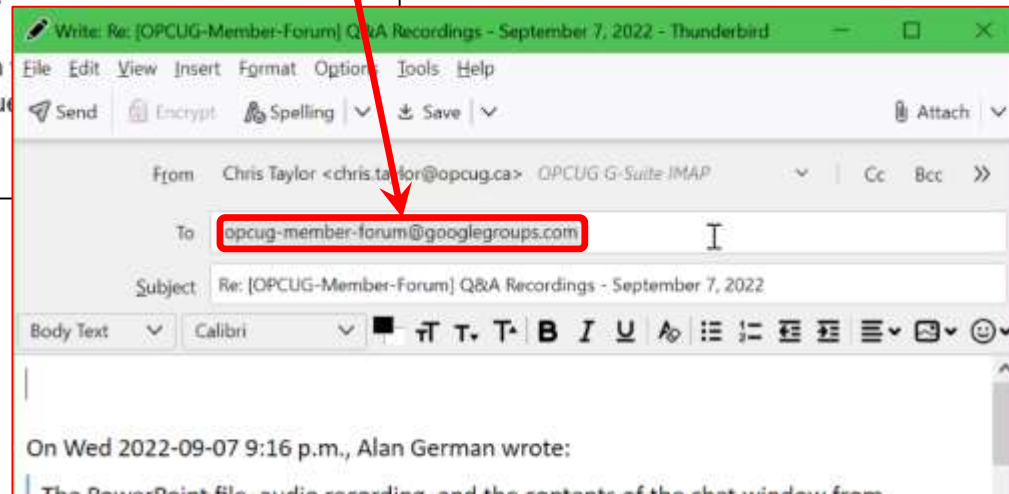
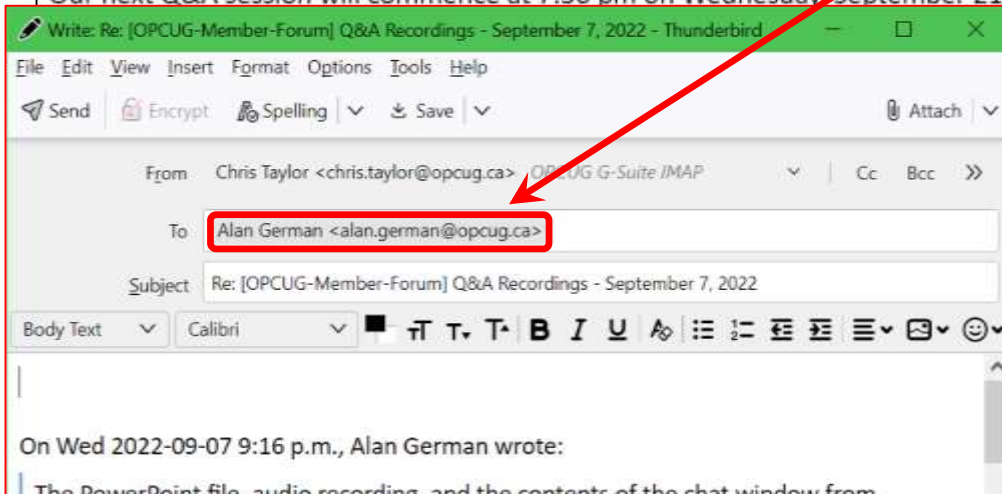
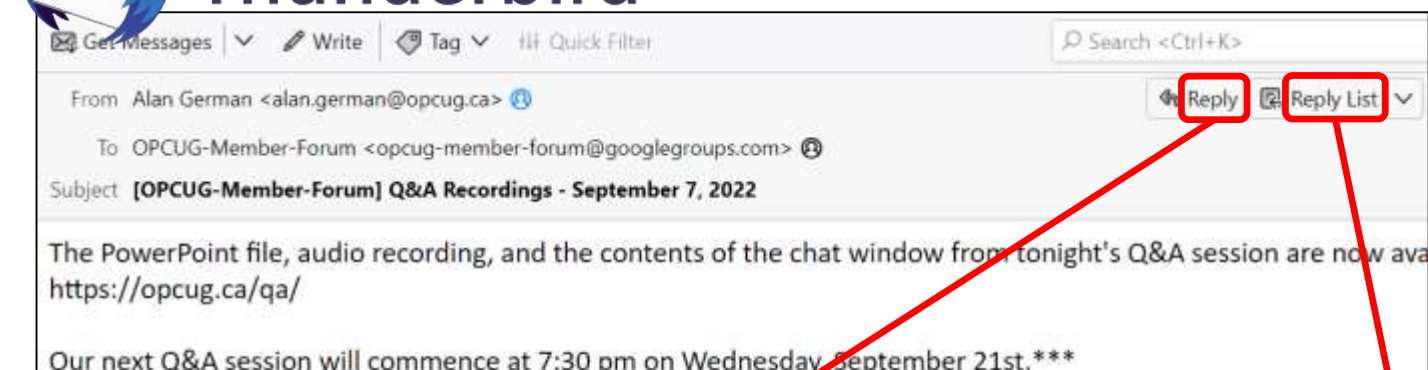


Share

Thunderbird...not so much



Thunderbird



Reply goes to Alan (originator)
Reply List goes to mailing list



Share

Fixing Thunderbird



- *Tools* | *Settings* | *General* | *Config editor*
 - waaaay at the bottom of the *General* page
- Click *Show All* button
- Scroll to *mail.override_list_reply_to*

Default is *true*

mail.operate_on_msgs_in_collapsed_threads	true	1
mail.override_list_reply_to	true	1L
mail.pane_config.dynamic	0	1

Double-click (or click toggle button on right) to change to false

mail.operate_on_msgs_in_collapsed_threads	true	1
mail.override_list_reply_to	false	1L 5
mail.pane_config.dynamic	0	1



Thunderbird now acts right!

Share

Use OpenDNS to filter out “bad” domains, some ads

- Domain Name System
 - translates domain names (like google.ca) to IP addresses (like 142.251.41.35) used by the internet’s hardware
- DNS servers
 - Your Internet Provider (your modem/phone’s default)
 - You can choose one in the list this utility uses:
<https://www.grc.com/dns/benchmark.htm>
 - <https://www.quad9.net/> is one in the list above which provides protection from malware
 - <https://www.opendns.com/home-internet-security/> is another that you can configure
- How to install a different DNS server

How to specify the DNS server

- In modem, something like this:

TP-LINK®300Mbps Wireless N USB VDSL/ADSL Modem
Model No.

Status

Quick Setup

Operation Mode

Network

WAN Settings

3G/4G Settings

Interface Grouping

LAN Settings

IPv6 LAN Settings

MAC Clone

ALG Settings

DSL Settings

IPSec VPN

IPTV

DHCP Server

Wireless

Guest Network

LAN Settings

Note: If the LAN IP Address or the subnet mask has been changed, please ensure the DHCP Address Pool and static IPs on the network are within the same subnet as the new LAN IP.

Group:	Default
IP Address:	192.168.1.1
Subnet Mask:	255.255.255.0
Enable IGMP Snooping:	☒
Enable Second IP:	☐
DHCP Server:	☐ Disable ☒ Enable ☐ DHCP Relay
Start IP Address:	192.168.1.100
End IP Address:	192.168.1.199
Lease Time:	61 minutes (1~2880 minutes, the default value is 1440)
Gateway:	192.168.1.1 (optional)
Default Domain:	(optional)
DNS Server:	208.67.222.222 (optional)
Secondary DNS Server:	208.67.220.220 (optional)

OpenDNS settings – after creating account

The screenshot shows the OpenDNS dashboard interface. At the top, there is a dark navigation bar with the OpenDNS logo on the left and links for 'OpenDNS.com', 'Dashboard', and 'Community' on the right. Below this is a secondary navigation bar with buttons for 'HOME', 'STATS', 'SETTINGS', 'MY ACCOUNT', 'SUPPORT', and 'TELL A FRIEND'. The 'SETTINGS' button is highlighted. Below the navigation bar, a welcome message 'Welcome, tom@abacurial.com.' is displayed on the left, and the 'Global System Status: Online' is on the right. The main content area is titled 'Personal networks' and contains two light blue boxes. The first box is for 'Stats & Logs' and shows '1 network' with a dropdown arrow. The second box is for 'Settings' and also shows '1 network' with a dropdown arrow.

OpenDNS / dashboard

OpenDNS.com Dashboard Community

HOME STATS SETTINGS MY ACCOUNT SUPPORT TELL A FRIEND

Welcome, tom@abacurial.com. Global System Status: **Online**

Personal networks

Stats & Logs
1 network ▼

Settings
1 network ▼

Blocking by category

OpenDNS dashboard

HOMESTATSSETTINGSMY ACCOUNTSUPPORTTELL A FRIEND

Settings for: Home3 (66.220.201.19) [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.

Web Content Filtering

Choose your filtering level

- ☐ **High** Protects against all adult-related sites, illegal activity, social networking sites, video sharing sites, and general time-wasters. **27** categories in this group - [View](#) - [Customize](#)
- ☐ **Moderate** Protects against all adult-related sites and illegal activity. **14** categories in this group - [View](#) - [Customize](#)
- ☐ **Low** Protects against pornography. **5** categories in this group - [View](#) - [Customize](#)
- ☐ **None** Nothing blocked.
- ☒ **Custom** Choose the categories you want to block.

☐ Academic Fraud	☐ Adult Themes	☒ Advertisements
☒ Adware	☐ Alcohol	☐ Anime/Manga/Webcomic
☐ Auctions	☐ Automotive	☐ Blogs
☐ Business Services	☐ Chat	☐ Classifieds
☐ Dating	☐ Drugs	☐ Ecommerce/Shopping
☐ Educational Institutions	☐ File Storage	☐ Financial Institutions
☐ Forums/Message boards	☐ Gambling	☐ Games
☐ German Youth Protection	☐ Government	☐ Hate/Discrimination
☐ Health and Fitness	☐ Humor	☐ Instant Messaging
☐ Jobs/Employment	☐ Lingerie/Bikini	☐ Movies
☐ Music	☐ News/Media	☐ Non-Profits
☐ Nudity	☐ P2P/File sharing	☒ Parked Domains
☐ Photo Sharing	☐ Podcasts	☐ Politics
☐ Pornography	☐ Portals	☐ Proxy/Anonymizer
☐ Radio	☐ Religious	☐ Research/Reference
☐ Search Engines	☐ Sexuality	☐ Social Networking
☐ Software/Technology	☐ Sports	☐ Tasteless
☐ Television	☐ Tobacco	☐ Travel
☐ Video Sharing	☐ Visual Search Engines	☐ Weapons
☒ Web Spam	☐ Webmail	

Looking for [security categories](#)?

Blocking by domain (25 max)

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.

Always block ▾

ADD DOMAIN

ALWAYS BLOCK:

app-measurement.com	☐
crashlytics.com	☐
d2to8y50b3n6dq.cloudfront.net	☐
dadcdigital.com	☐
dailymotion.com	☐
device-metrics-us-2.amazon.com	☐
doubleclick.net	☐
google-analytics.com	☐
googleadservices.com	☐
googlesyndication.com	☐
hockeyapp.net	☐
metric.gstatic.com	☐
miwifi.com	☐
ndmdhs.com	☐
r2---sn-tt1e7n7l.googlevideo.com	☐
r2---sn-tt1eln7e.googlevideo.com	☐
r4---sn-tt1e7n7k.googlevideo.com	☐
r4---sn-tt1eln7s.googlevideo.com	☐
r5---sn-tt1eln7l.googlevideo.com	☐
r6---sn-tt1eln7e.googlevideo.com	☐
rr2---sn-tt1e7n7e.googlevideo.com	☐
rr2---sn-tt1eln7l.googlevideo.com	☐
sony.tv	☐
yahoo.com	☐
yandex.net	☐

DELETE

Statistics

OpenDNS / dashboard

OpenDNS.com Dashboard Community

HOMESTATSETTINGSMY ACCOUNTSUPPORTTELL A FRIEND

Domains

Domains

▼

for

Personal Networks

▼

from

2022-10-04

to

2022-10-18

or [choose a single day](#)

Apply

Oops! We don't have any data for you. Try searching a larger range or

Support: [Knowledge Base](#) | [CacheCheck](#) | [System Status](#)

Connect

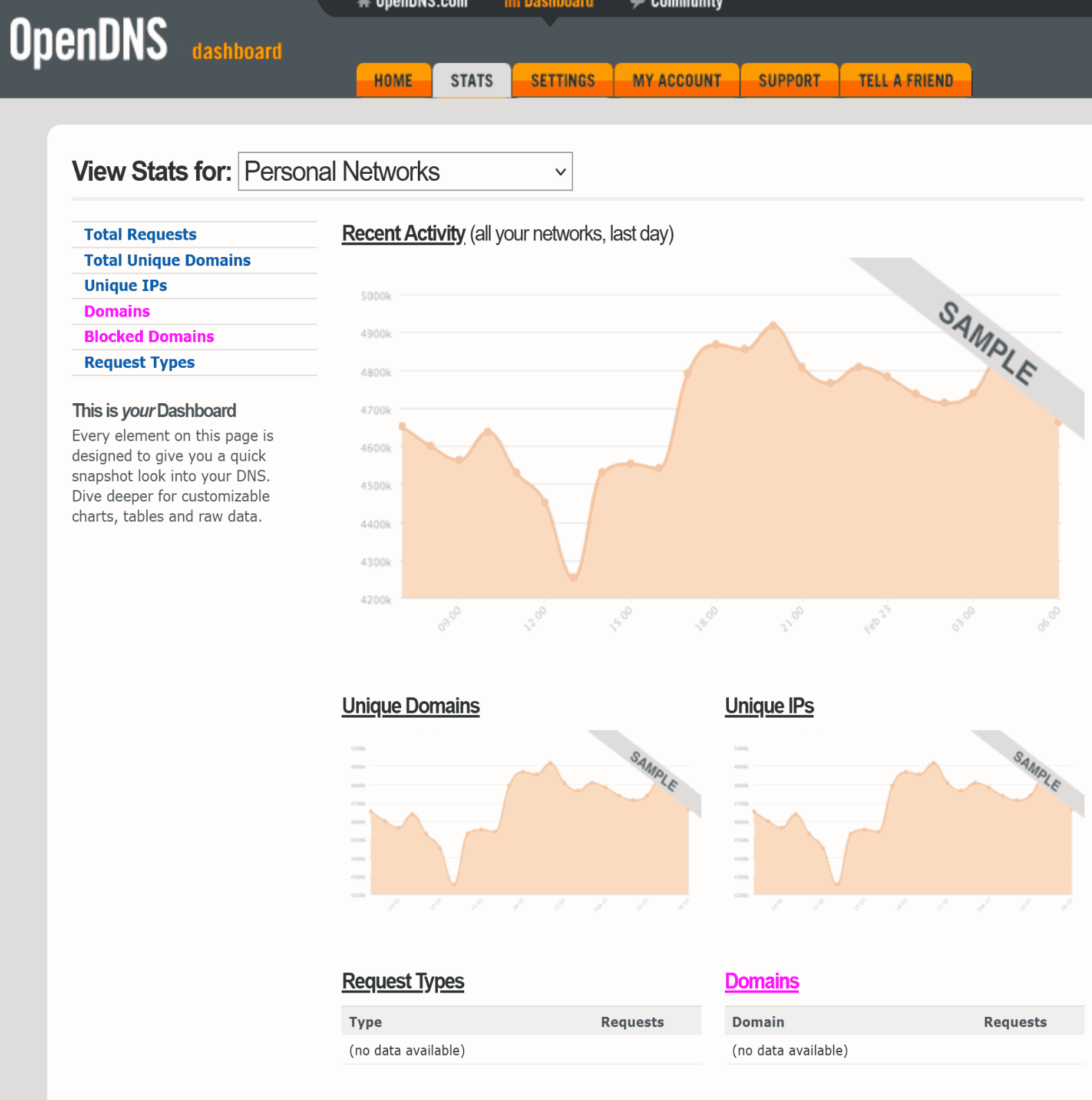
The OpenDNS nameservers are **208.67**

NS Blog

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October 2022						
Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Statistics



Domains list (red = blocked)

Your current IP is 66.220.201.128. tom@abacurial.com (Sign out)

OpenDNS.com Dashboard Community

HOME STATS SETTINGS MY ACCOUNT SUPPORT TELL A FRIEND

Domains

Domains for Personal Networks from 2022-10-04 to 2022-10-18 or choose a single day Apply

Filter: View everything

Next →

RANK	DOMAIN	REQUESTS
1	api.miwifi.com	257,429
2	eu.api.miwifi.com	26,944
3	prod-api-funimationnow.dadcdigital.com	12,174
4	fls-na.amazon.com	6,319
5	device-metrics-us-2.amazon.com	5,738
6	ssl.google-analytics.com	5,583
7	unagi-na.amazon.com	2,968
8	mtalk.google.com	2,797
9	connectivitycheck.gstatic.com	2,176
10	www.google.com	2,023
11	www.baidu.com	1,925
12	api.us-east-1.aiv-delivery.net	1,719
13	www.sony.net	1,708
14	api-tv.spbtv.com	1,670
15	clients3.google.com	1,508
16	ab992t7ewg8z-na.api.amazonvideo.com	1,468
17	eu.broker.miwifi.com	1,171
18	fcm.googleapis.com	891
19	ccp-lh.googleusercontent.com	875
20	nrdp.prod.cloud.netflix.com	823
21	ssm3.internet.sony.tv	793
22	ssm1.internet.sony.tv	759
23	ssm2.internet.sony.tv	757
24	play.googleapis.com	749
25	graph.facebook.com	722
26	firebase-settings.crashlytics.com	676
27	android.googleapis.com	595
28	app-measurement.com	501
29	www.taobao.com	441
30	api.amazon.com	388
31	api.vimeo.com	344
32	nrdp-ipv6.prod.ftl.netflix.com	337
33	dns.quad9.net	271
34	www.googleapis.com	270
35	m.root-servers.net	252
36	graphql.api.dailymotion.com	250
37	api.haystack.tv	215
38	www.gstatic.com	214
39	play-fe.googleapis.com	213
40	m.media-amazon.com	211
41	android.clients.google.com	200
42	api.meta.ndmdhs.com	185
43	play-lh.googleusercontent.com	181
44	googleads.g.doubleclick.net	141
45	playmoviesdfe-pa.googleapis.com	133
46	tpc.googlesyndication.com	123



Questions?

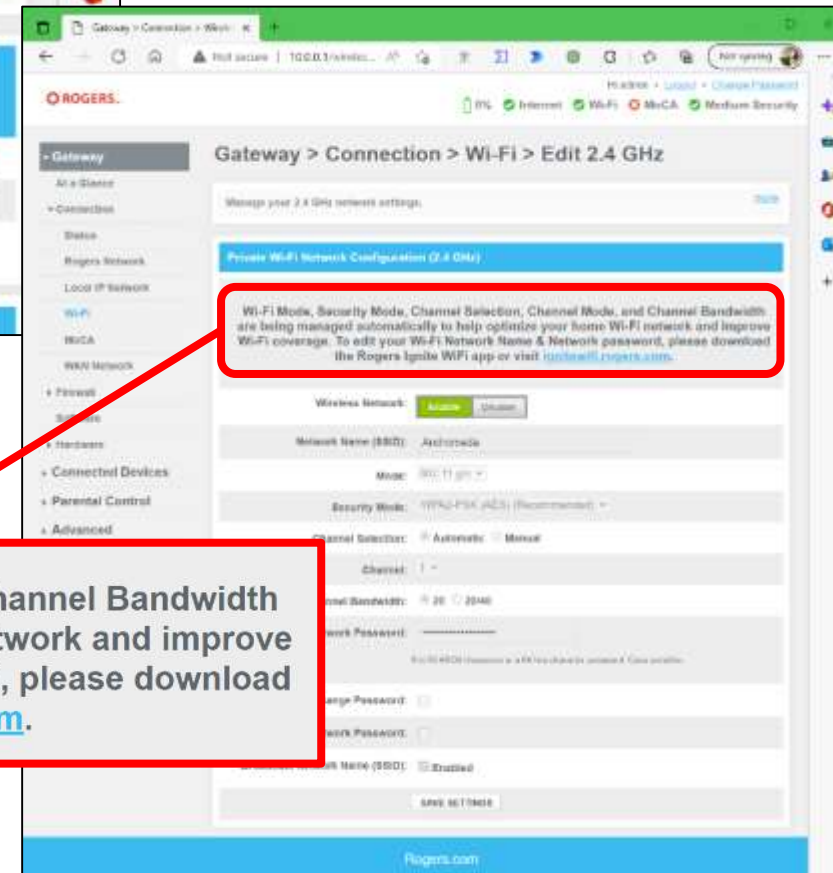
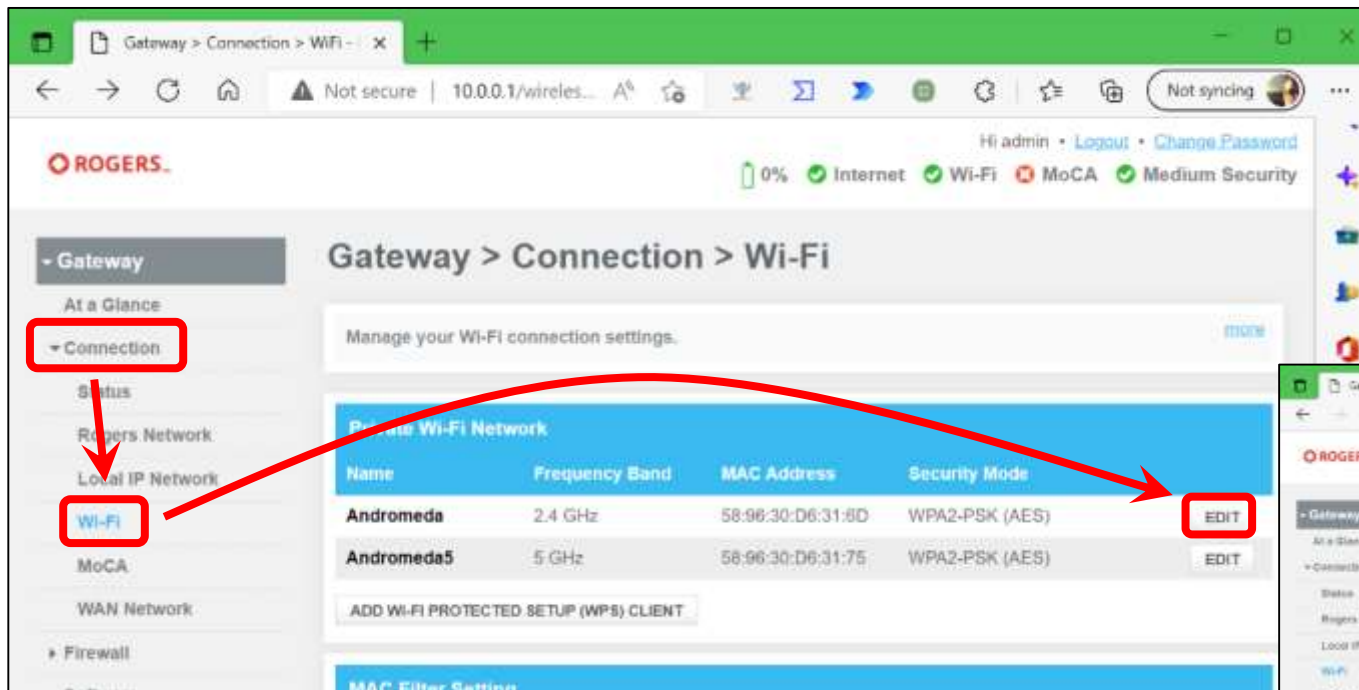
Security Settings for a Rogers Ignite WiFi Hub

Chris's recommendations:

- WPA2-PSK with AES encryption
- Unique SSID
- Change admin password
- Firewall on
- Remote admin off
- Disable WPS



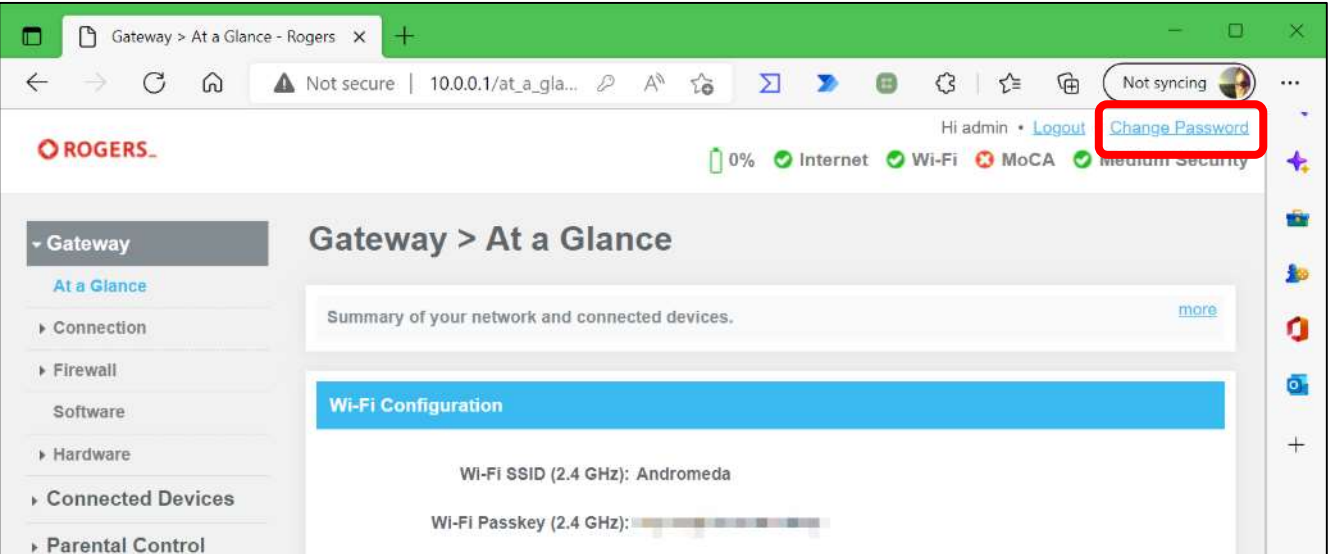
WPA2-PSK with AES encryption & Unique SSID



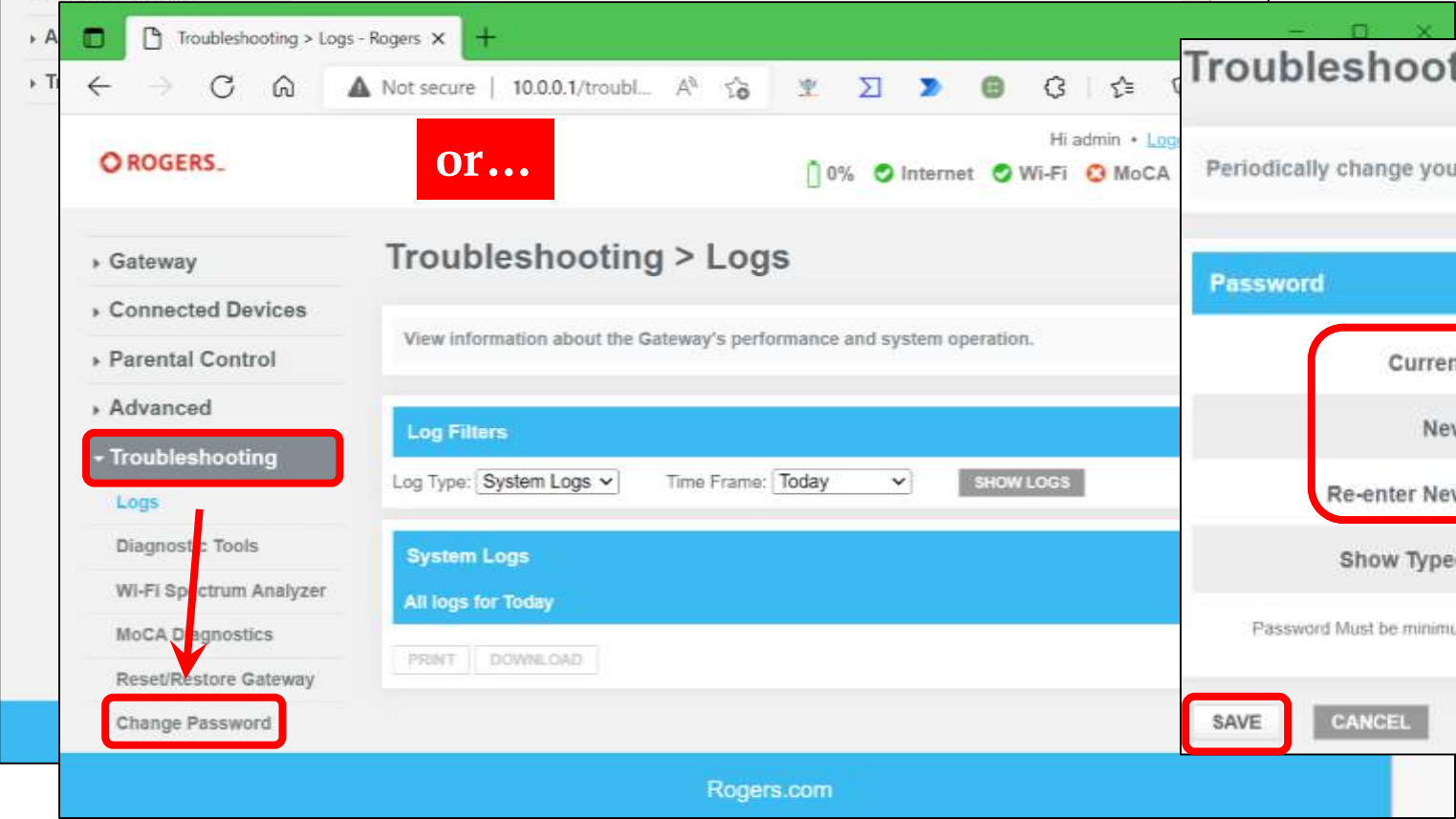
Wi-Fi Mode, **Security Mode**, Channel Selection, Channel Mode, and Channel Bandwidth are being managed automatically to help optimize your home Wi-Fi network and improve Wi-Fi coverage. To edit your Wi-Fi **Network Name** & **Network password**, please download the Rogers Ignite WiFi app or visit [ignitewifi.rogers.com](https://www.ignitewifi.rogers.com).

Can't get there from here!

Change admin password

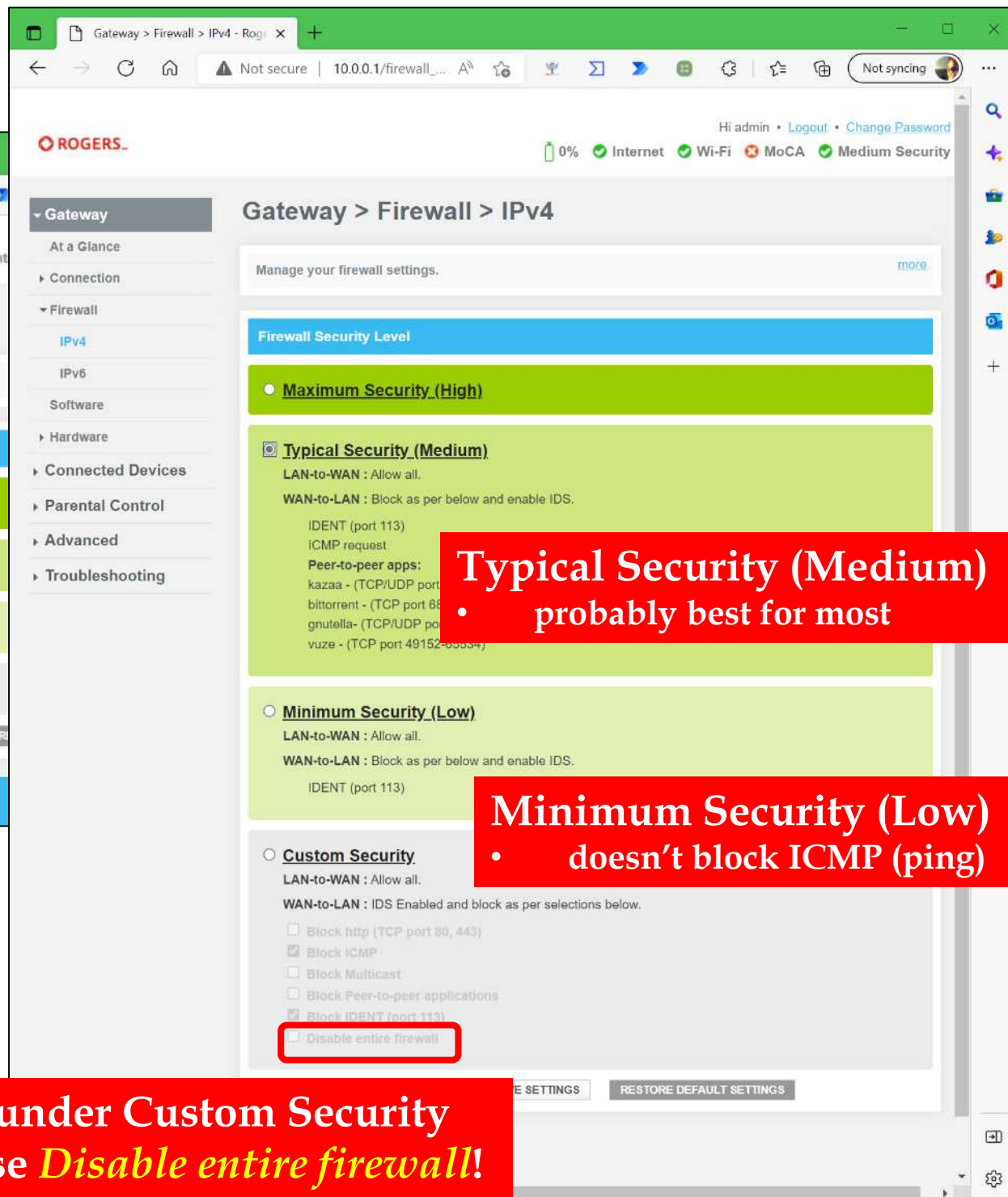
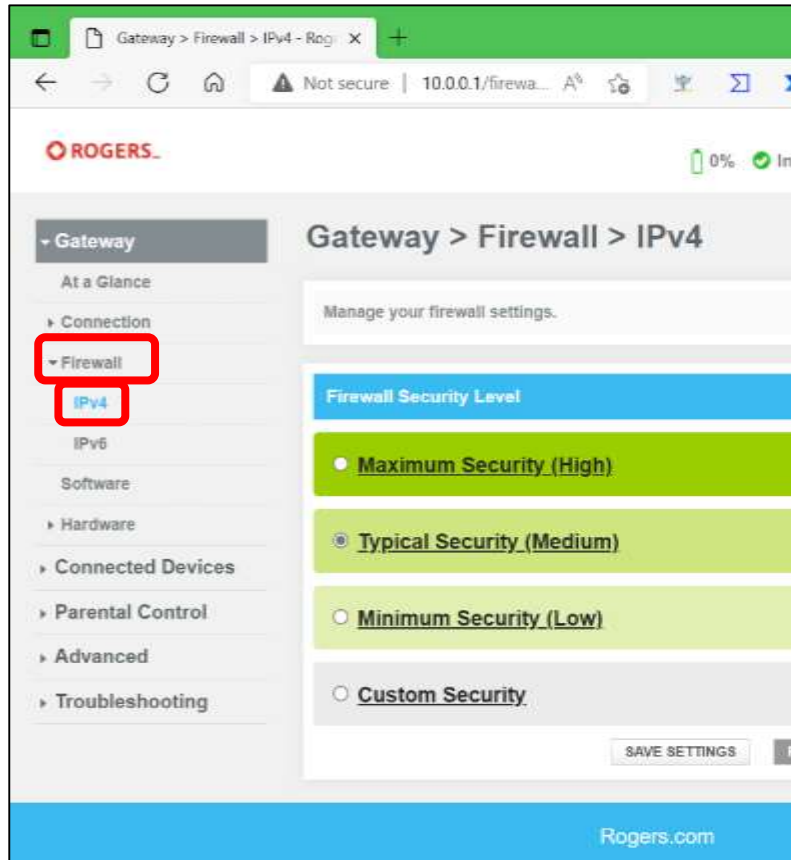


Or...



This is a close-up of the 'Change Password' form. The title is 'Troubleshooting > Change Password'. Below the title is a message: 'Periodically change your Admin Tool password to protect your network.' The form has a blue header 'Password' and three input fields: 'Current Password:', 'New Password:', and 'Re-enter New Password:'. These three fields are grouped together and highlighted with a red rectangle. Below the input fields is a checkbox for 'Show Typed Password:'. At the bottom, there are 'SAVE' and 'CANCEL' buttons, with the 'SAVE' button highlighted by a red rectangle. A note at the bottom states: 'Password Must be minimum 8 characters(Alphanumeric only). No spaces. Case sensitive.'

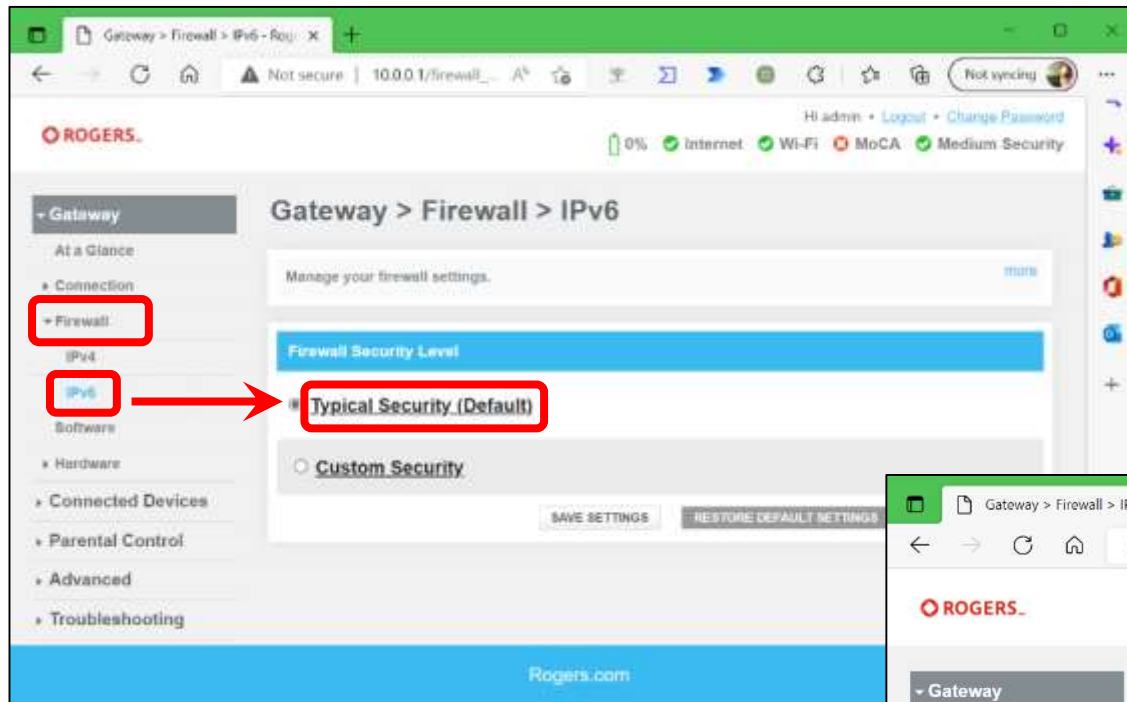
Firewall on (IPv4)



Only way to have Firewall off is under Custom Security

- if you choose that, don't choose *Disable entire firewall!*

Firewall on (IPv6)

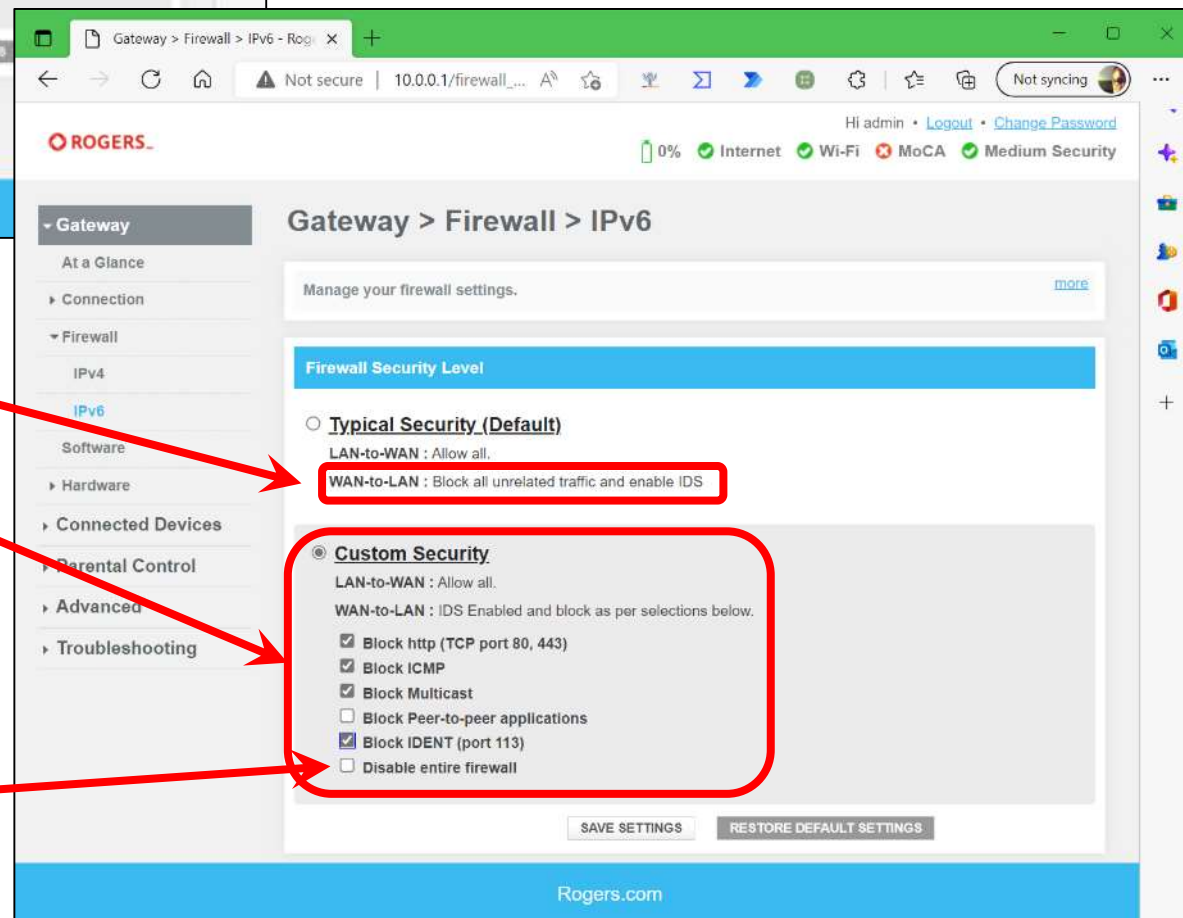


What does this mean?

Maybe better

Only way to have Firewall off is under Custom Security

- if you choose that, don't choose *Disable entire firewall!*



Remote admin off

The screenshot shows the Rogers Advanced Remote Management web interface. The left sidebar has a menu with 'Advanced' and 'Remote Management' highlighted by red boxes and arrows. The main content area shows the 'Remote Management' settings. The 'HTTP' and 'HTTPS' ports (8080 and 8181) have 'Disable' buttons highlighted by a red box. Below this, the 'Remote Access Allowed From' section is also highlighted by a red box, showing options for 'Single Computer', 'Range Of IPs', and 'Any Computer'. The 'Any Computer' option is selected. A red arrow points from the 'Remote Management' menu item to the 'Disable' buttons. The interface also shows a status bar at the top with 'Hi admin', 'Logout', and 'Change Password' links, and a 'Not syncing' indicator. The bottom of the page has a 'SAVE' button and the 'Rogers.com' logo.

Advanced > Remote Management

Remote Management allows the gateway to be remotely accessed by a customer account representative to perform troubleshooting or maintenance. [more](#)

Remote Management

HTTP: 8080

HTTPS: 8181

Remote Management Address (IPv4): 174.116.101.26
Remote Management Address (IPv6): 2607:f798:80c:9e:b912:e47d:4f42:f6fd

Please enable HTTP or HTTPS to configure Remote Access Allowed From.

Remote Access Allowed From

☐ Single Computer

IPv4 Address: . . .

IPv6 Address: : : : : : : :

☐ Range Of IPs

Start IPv4 Address: . . .

End IPv4 Address: . . .

Start IPv6 Address: : : : : : : :

End IPv6 Address: : : : : : : :

☒ Any Computer

Note: This option will allow any computer on the Internet to access your network and may cause a security risk.

SAVE

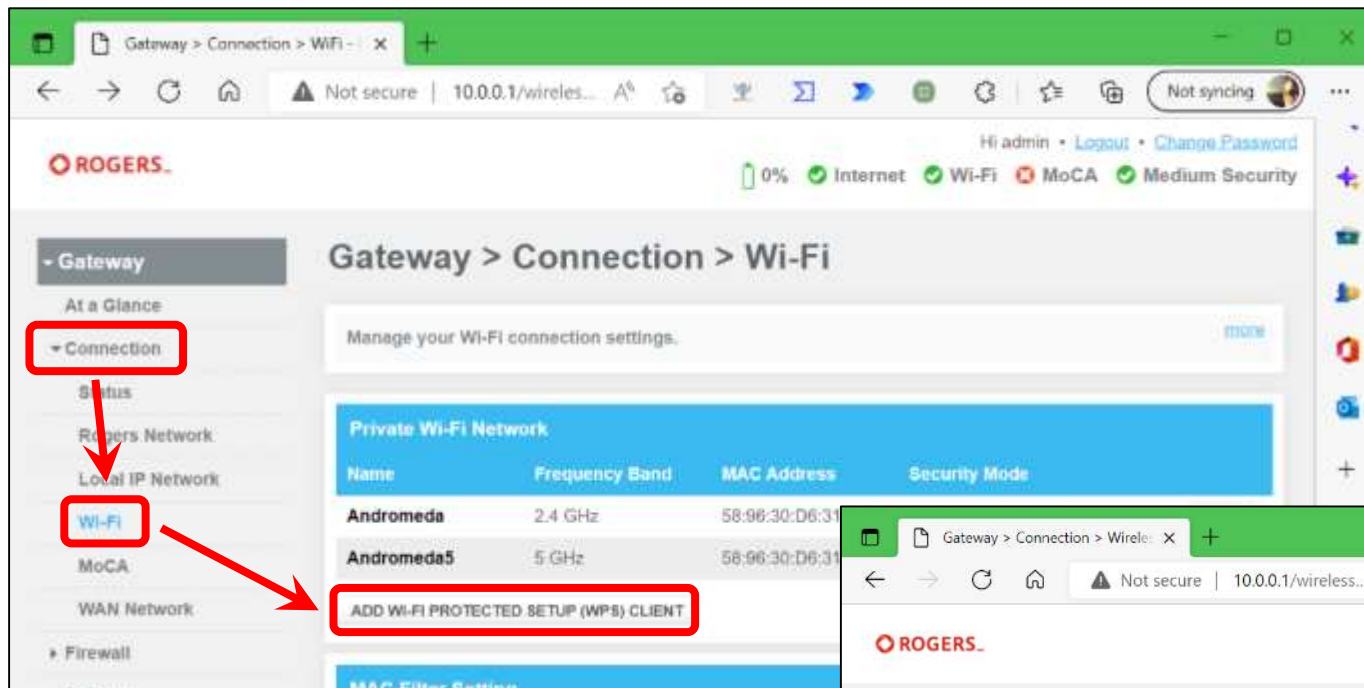
Rogers.com

Leave as *Disable*

If you *really* need
Remote Management

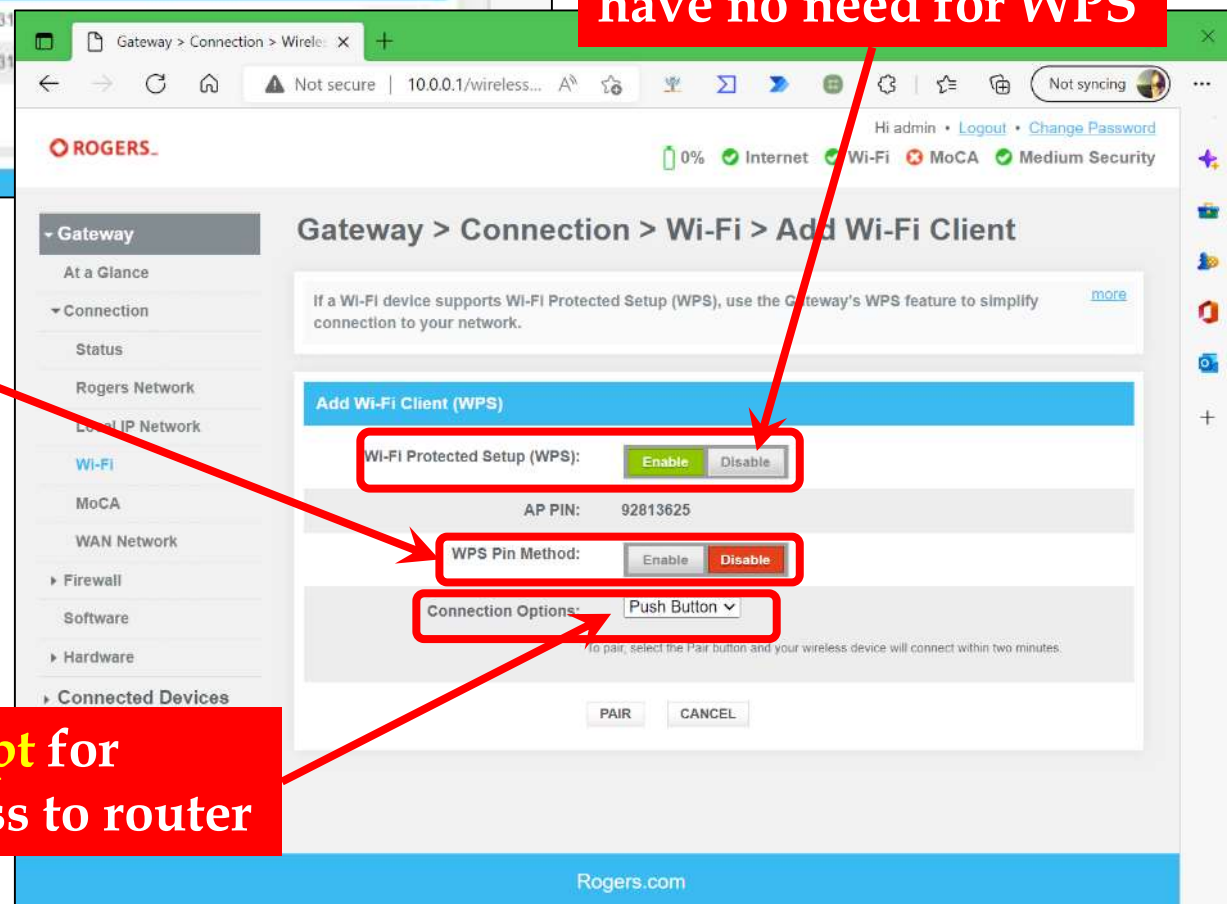
- restrict *From* as
much as possible

Disable WPS



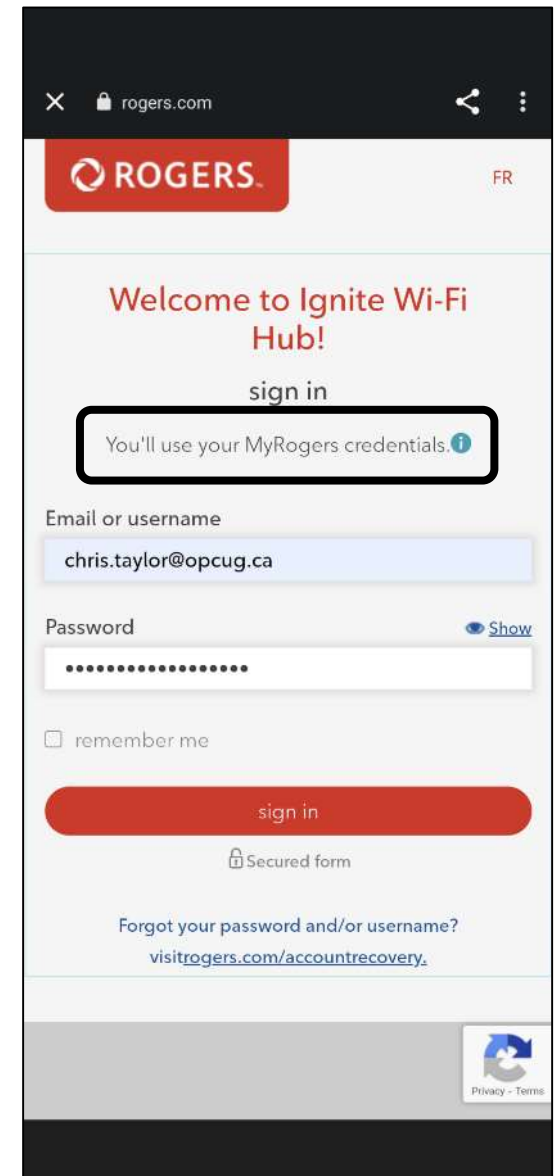
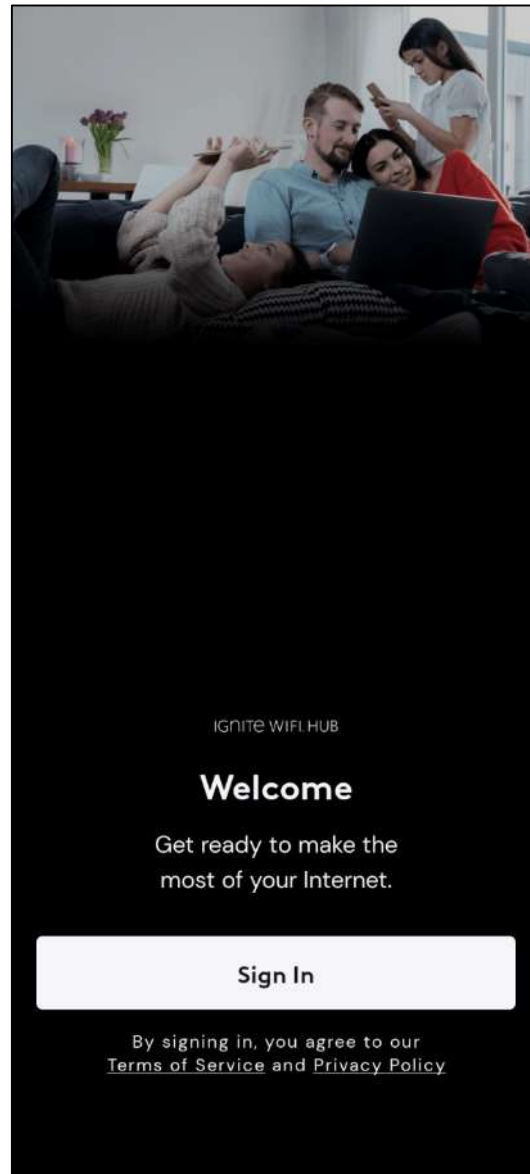
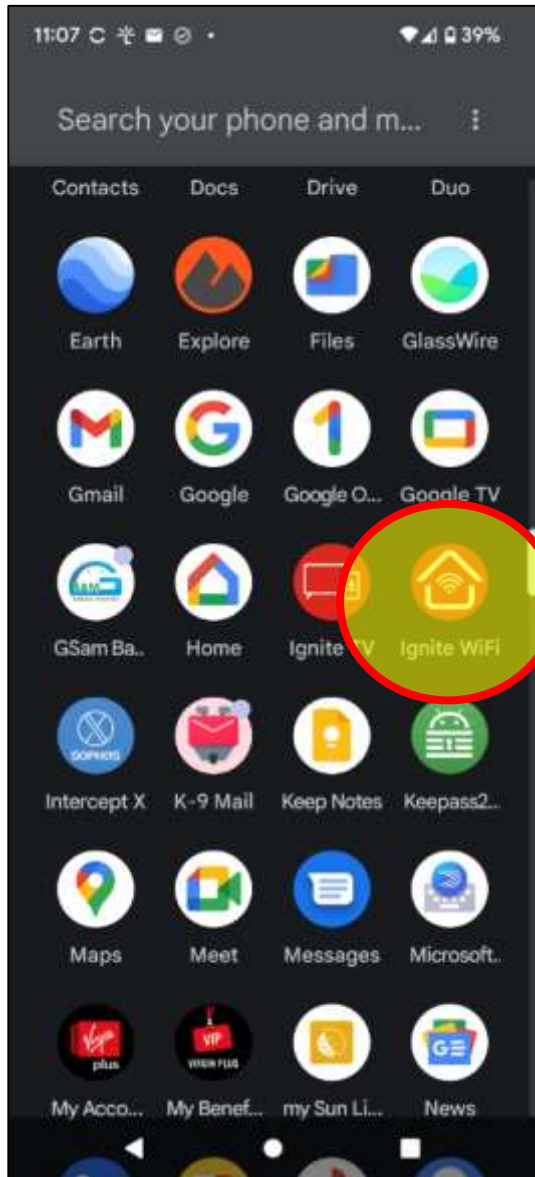
Choose *Disable* if you have no need for WPS

Disable WPS Pin Method
• (it's insecure)

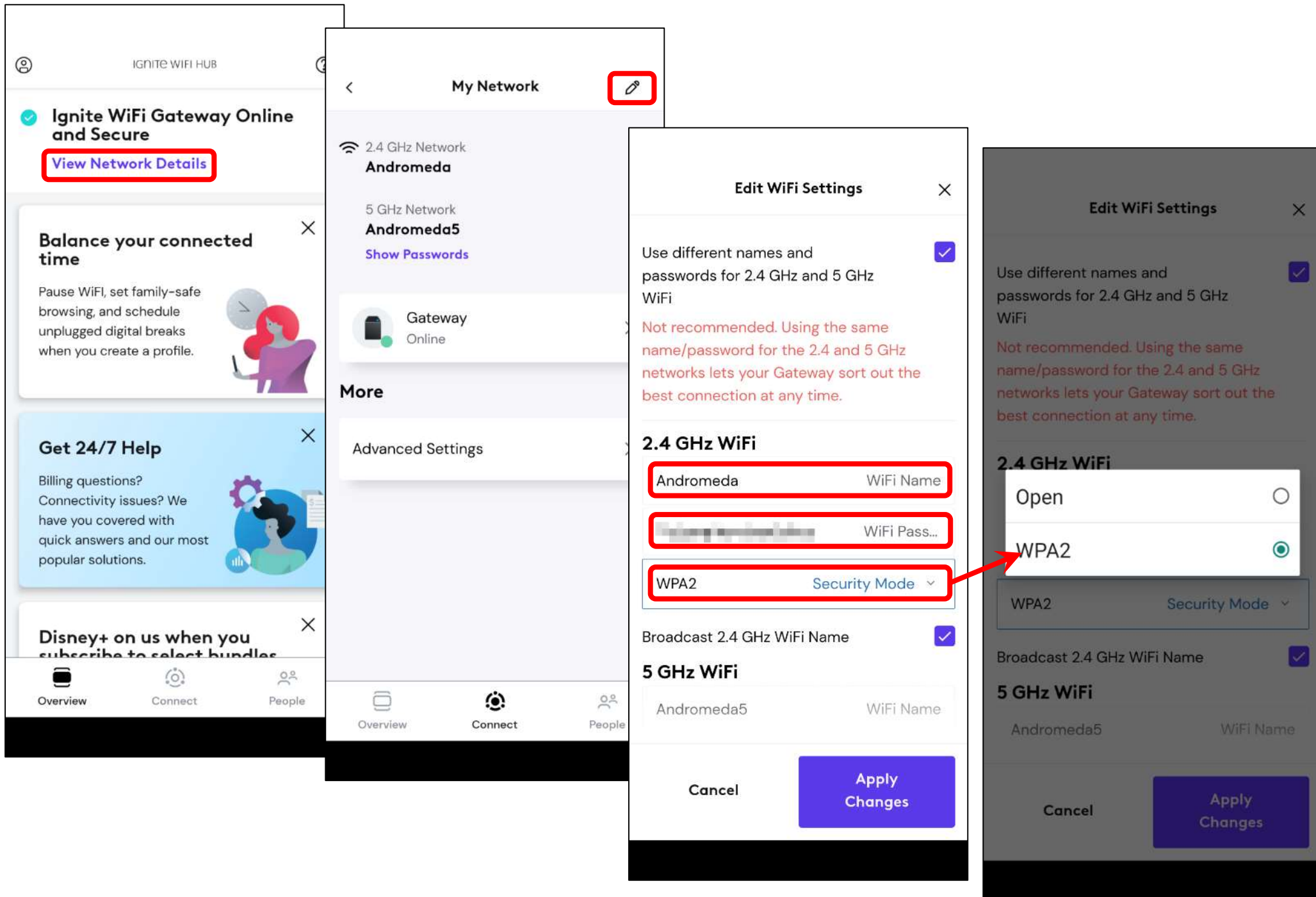


Push Button is secure **except** for anyone with physical access to router

WPA2-PSK with AES encryption and Unique SSID



WPA2-PSK with AES encryption and Unique SSID



ShieldsUP!!tm

Port Authority Edition – Internet Vulnerability Profiling

by Steve Gibson, Gibson Research Corporation.

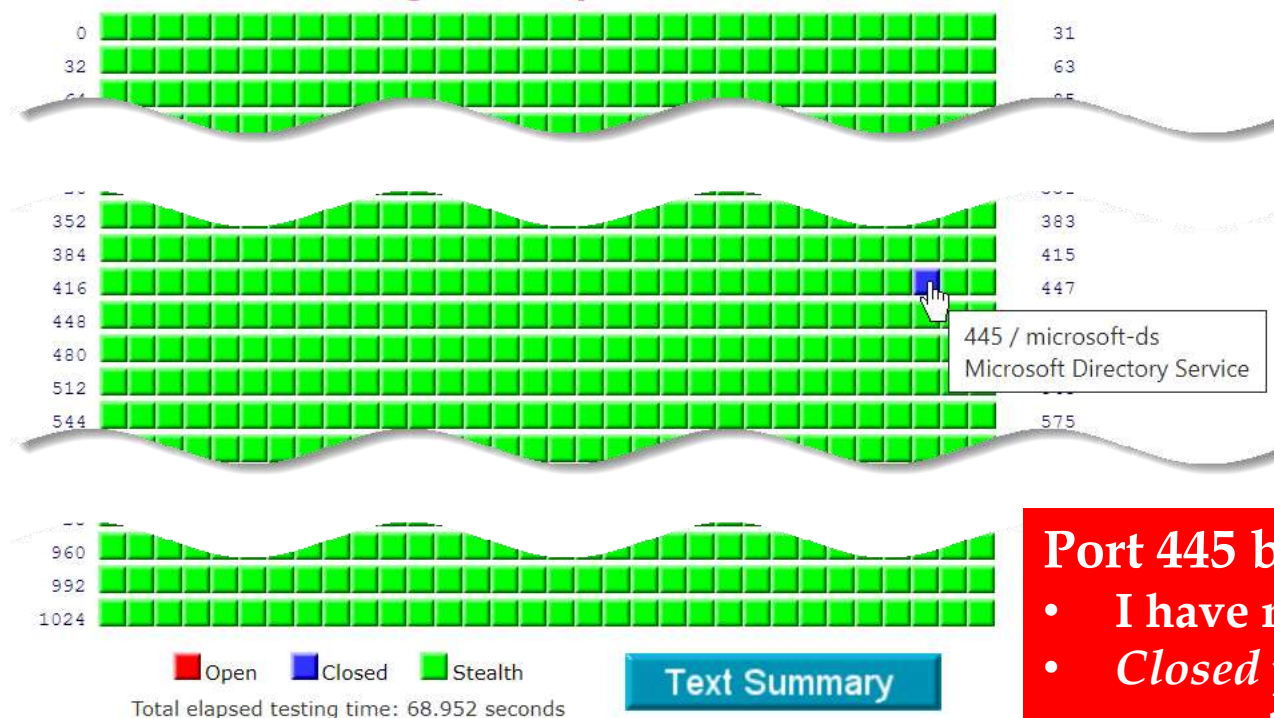
**Determine the status of your
system's first 1056 ports**

the status — ■ Open, ■ Closed, or ■ Stealth — of your system's first 1056 TCP ports.

Your computer at IP:

174.116.101.26

Is being carefully examined:



Port 445 being *Closed* is “new”

- I have no idea why
- *Closed* ports are not inherently dangerous
- prevents “stealth”
 - i.e. someone can see *something* is there

The Last Ten...



The last ten minutes of our Q&A session have no prepared material – What question do you want to ask?

Security Settings for a Bell Home Hub 3000 Modem

Chris's recommendations:

- WPA2-PSK with AES encryption
- Unique SSID
- Change admin password
- Firewall on
- Remote admin off
- Disable WPS



FileEditViewBookmarksToolsWindowHelp

192.168.2.1/?c=dashboard

192.168.2.1/?c=dashboard

Not Secure 192.168.2.1

Search Google

JS

 Home Hub 3000

 FrançaisModem login

Service health

 Internet
Up

 TV
Up

Home network

Manage my Wi-Fi



Primary
Network name: Duckpond
Password: *****
Guest Disabled

My devices



6 connected device(s) | 0 guest device(s)

Tools & settings

My usage



Access control


Disabled

Speed test



Battery backup



Modem preferences



Advanced tools and settings



© Bell Canada 2017. All rights reserved

Mobile version | Site map | Support | Need help?

Reset 100% 8:29 PM

File Edit View Bookmarks Tools Window Help 192.168.2.1/?c=dashboard

192.168.2.1/?c=dashboard Not Secure 192.168.2.1 Search Google JS

Bell Home Hub 3000

Franglais Modem login

Service health

Internet Up

TV Up

Home network

Manage my Wi-Fi

Primary Network Password: *****

Guest Disabled

My devices

6 connected device(s) | 0 guest device(s)

Tools & settings

Speed test

Modem preferences

Advanced tools and settings

Change Admin Password

© Bell Canada 2017. All rights reserved. Mobile version | Site map | Support | Need help? 100% 8:29 PM

Modem preferences



Modem password (administrator)

It is important that you change the default password for security reasons.

Current password:

New password:

Confirm password:

Contact information

Receive your Wi-Fi and modem passwords (when requested) as well as other modem-related notifications to the contact information you provide below.

Email address:

alan.german@opcug.ca

Confirm email:

Mobile number (text)*:

* For Bell Mobility, Solo, Northern Tel, Télébec, FC Mobile or Virgin customers only.

Password recovery

Recover the passwords for your Wi-Fi network and the modem.

By email or text message

☒ ON ☐ OFF

You'll receive an email or a text message that contains your modem's administrator password as well as the password for your Wi-Fi networks.

On screen

☒ ON ☐ OFF

The passwords will be displayed on your modem's screen.

Time zone

Current time zone:

Eastern Time (ET)



LED brightness

☒ High

☐ Low

Cancel

Save



Modem preferences



Modem password (administrator)

It is important that you change the default password for security reasons.

Current password:

New password:

Confirm password:

Contact information

Receive your Wi-Fi and modem password and modem-related notifications to the contact information you provide.

Email address:

Confirm email:

Mobile number (text)*:

* For Bell Mobility, Solo, Northern Tel, Télébec, Fido

Password recovery

Recover the passwords for your Wi-Fi network and the modem.

By email or text message

☒ ON ☐ OFF

You'll receive an email or a text message that contains your modem's administrator password as well as the password for your Wi-Fi networks.

Modem password (administrator)

It is important that you change the default password for security reasons.

Current password:

New password:

Confirm password:

Change Wi-Fi Password

The screenshot shows the Bell Home Hub 3000 dashboard in a web browser. The browser's address bar displays '192.168.2.1/?c=dashboard'. The dashboard has a blue header with the 'Bell Home Hub 3000' logo and a search bar. A red box highlights the 'Manage my Wi-Fi' section, which contains the following information:

- Primary**
 - Network name: Duckpond
 - Password:
- Guest**: Disabled

Below this section, the 'My devices' section shows 6 connected device(s) and 0 guest device(s). To the right, the 'Tools & settings' column includes links for 'My usage', 'Speed test', 'Access control' (Disabled), 'Battery backup', 'Modem preferences', and 'Advanced tools and settings'.

At the bottom of the dashboard, there is a footer with copyright information: '© Bell Canada 2017. All rights reserved.' and a row of links: 'Mobile version', 'Site map', 'Support', and 'Need help?'. The browser's status bar at the very bottom shows 'Reset', a zoom slider at 100%, and the time '8:29 PM'.

Manage my Wi-Fi



Wi-Fi settings

Whole Home Wi-Fi

Let the Home Hub optimize Wi-Fi throughout your home

ON OFF

Primary Wi-Fi network

Devices connected to the primary Wi-Fi network can connect to the Internet as well as share files with other devices and access the network settings.

Network name (SSID):

Duckpond

Password:

20CharactersBetterThan00

The password must be 8 to 63 characters. Letters, numbers and some symbols are allowed.

Guest Wi-Fi network

ON OFF

Devices connected to the guest Wi-Fi network can only connect to the Internet. Before you can enable the guest network, the primary network must be on.

Network name (SSID):

BELL790-V

Password:

3630efbdcdb05

The password must be 8 to 63 characters. Letters, numbers and some symbols are allowed.

Cancel

Save



File Edit View Bookmarks Tools Window Help 192.168.2.1/?c=dashboard

192.168.2.1/?c=dashboard Not Secure 192.168.2.1 Search Google Français Modem login

Bell Home Hub 3000

Service health

Internet Up

TV Up

Home network

Manage my Wi-Fi

Primary
Network name: Duckpond
Password:

Guest Disabled

My devices

6 connected device(s) | 0 guest device(s)

Tools & settings

My usage

Access control

Disabled

Speed test

Battery backup

Advanced tools and settings

© Bell Canada 2017. All rights reserved. Mobile version | Site map | Support | Need help? 100% 8:29 PM

WPS Setting

Advanced tools and settings



Modem settings and troubleshooting tools for more advanced users.

Networking

DMZ >

DDNS (Dynamic DNS) >

DHCP >

Port forwarding >

UPnP ☐ ON ☒ OFF

DLNA ☒ ON ☐ OFF

SIP ALG ☐ ON ☒ OFF

Wi-Fi

WPS >

MAC filtering >

Wi-Fi analyzer >

Modem

About >

DNS >

WAN >

Backup / Restore

Backup

Restore

Tools

Statistics >

System Logs >

Utilities >

Monitoring >

Ethernet >

Resets >

Diagnostics >



WPS



Wi-Fi devices

Fibe TV

WPS

ON

OFF

Turning off WPS will also disable the WPS button on your modem.

Registration mode:



Button



PIN



Click the button to connect a device now.



File Edit View Bookmarks Tools Window Help 192.168.2.1/?c=dashboard

192.168.2.1/?c=dashboard Not Secure 192.168.2.1 Search Google JS

Bell Home Hub 3000

French Modem login

Service health

Internet Up

TV Up

Home network

Primary
Network name: Duckpond
Password: *****

Guest Disabled

My devices

6 connected device(s) | 0 guest device(s)

Tools & settings

Speed test

Battery backup

Modem preferences

Advanced tools and settings

Access control

Disabled

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Remote Access

OPCUG



WPA2 – AES (Encryption)

- WiFi Protected Access v2
Advanced Encryption Standard
- Used for encryption
 - required for WiFi certification
 - much better than WEP

**No WPA Settings
on Home Hub 3000**

But, https://support.bell.ca/internet/connection-help/home-hub-3000-modem.how_to_verify_that_the_default_wifi_security_is_on indicates that security is set to WPA2-PSK (AES)

Advanced tools and settings



Modem settings and troubleshooting tools for more advanced users.

Networking

DMZ >

DDNS (Dynamic DNS) >

DHCP >

Port forwarding >

UPnP ☐ ON ☒ OFF

DLNA ☒ ON ☐ OFF

SIP ALG ☐ ON ☒ OFF

Wi-Fi

WPS >

MAC filtering >

Wi-Fi analyzer >

Modem

About >

DNS >

WAN >

Backup / Restore

Backup

Restore

Tools

Statistics >

System Logs >

Utilities >

Monitoring >

Ethernet >

Resets >

Diagnostics >

No Firewall Settings



- They appear to have locked the firewall on
- If you want granular control over a firewall, the approach would be to:
 - configure it for complete pass-through
 - plug it into a separate router
 - configure its firewall as you want



https://www.reddit.com/r/bell/comments/jxfps4/passthrough_home_hub_3000_wan_ip_to_your_own

Security Settings for a Bell Home Hub 3000 Modem

Chris's recommendations:

- ✓ • WPA2-PSK with AES encryption
- ✓ • Unique SSID
- ✓ • Change admin password
- ✓ • Firewall on
- ✓ • Remote admin off
- ✓ • Disable WPS





Port Authority Edition – Internet Vulnerability Profiling

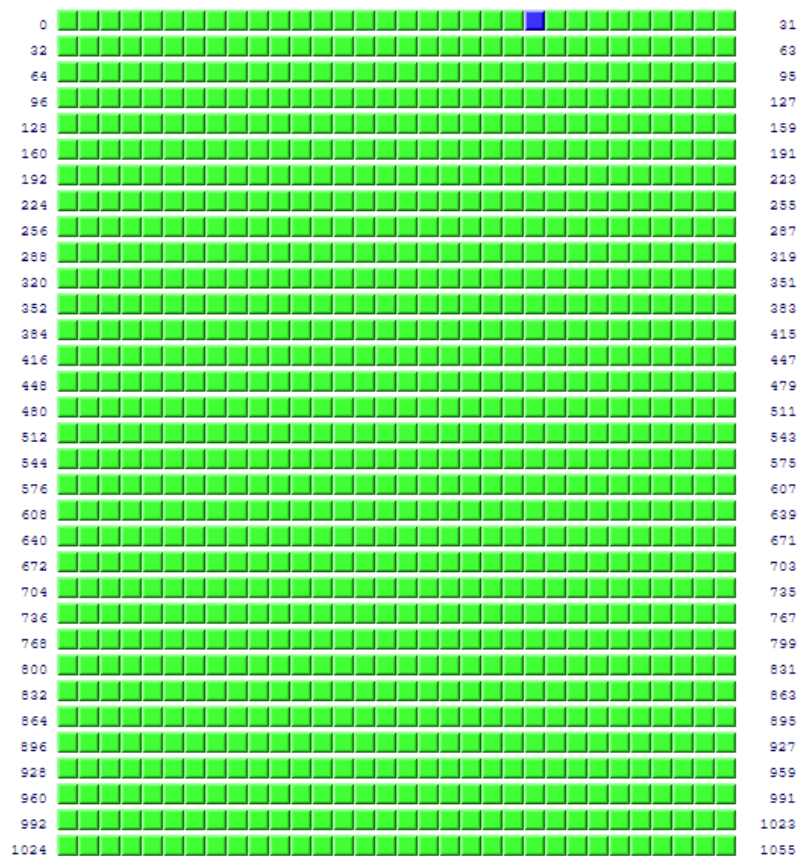
by Steve Gibson, Gibson Research Corporation.

**Determine the status of your
system's first 1056 ports**

Your computer at IP:

70.72.117.204

Is being carefully examined:



ShieldsUP!!tm

Port Authority Edition – Internet Vulnerability Profiling

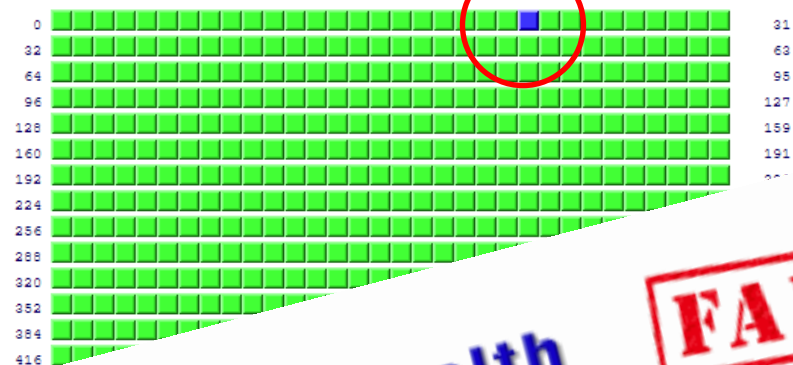
by Steve Gibson, Gibson Research Corporation.

Determine the status of your
system's first 1056 ports

Your computer at IP:

70.72.117.204

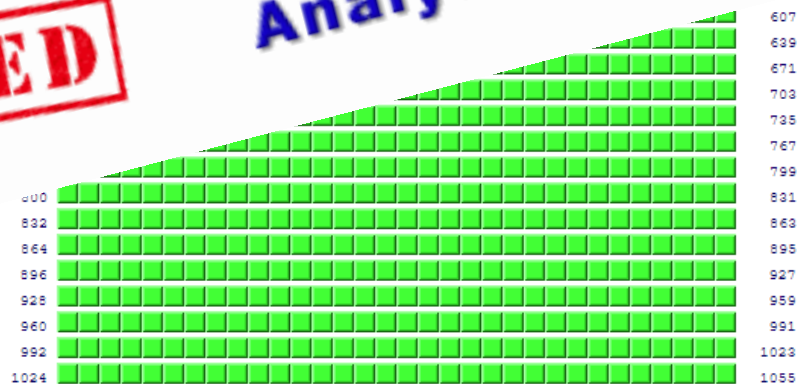
Is being carefully examined:



FAILED

**TruStealth
Analysis**

FAILED



ShieldsUP!!tm

Port Authority Edition – Internet Vulnerability Profiling

by Steve Gibson, Gibson Research Corporation.

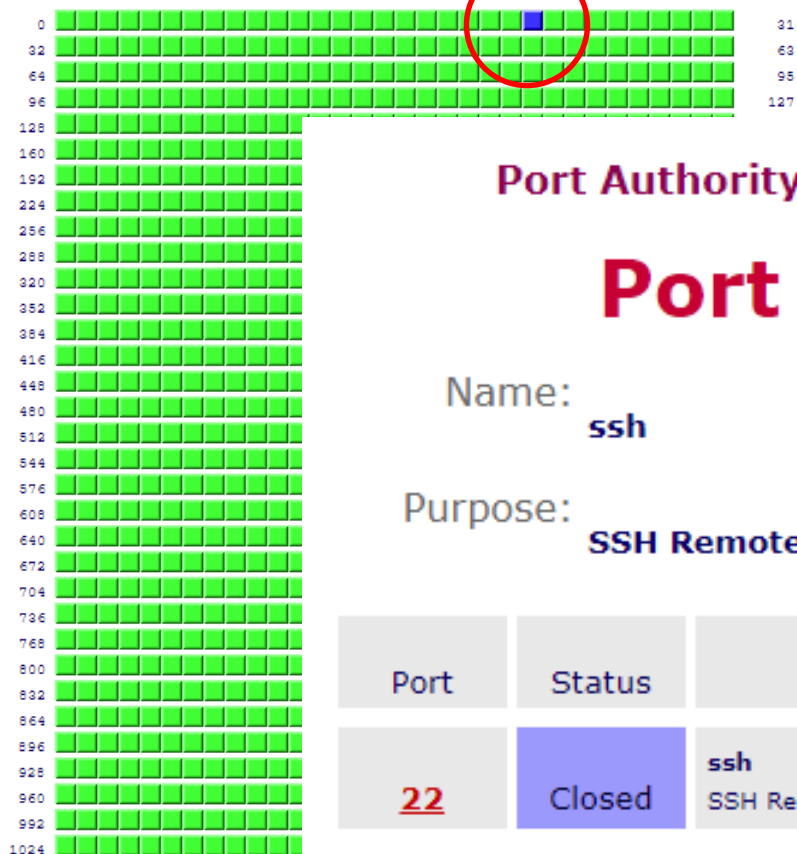


Determine the status of your
system's first 1056 ports

Your computer at IP:

70.72.117.204

Is being carefully examined:



Port Authority Database

Port 22

Name:
ssh

Purpose:
SSH Remote Login Protocol

Port	Status	
<u>22</u>	Closed	ssh SSH Remote Login Protocol

The Last Ten...



The last ten minutes of our Q&A session have no prepared material – What question do you want to ask?



How to leave computer at end of day

- I usually choose Sleep every night.
- Should I use signout or shut down instead?



Lorraine Boulay

A

The correct answer to all computer-related questions is...

That depends



- What are you trying to accomplish?
 - save electricity?
 - save wear and tear on computer?
 - stop hackers?
 - something else?

A

Chris's *very* random thoughts

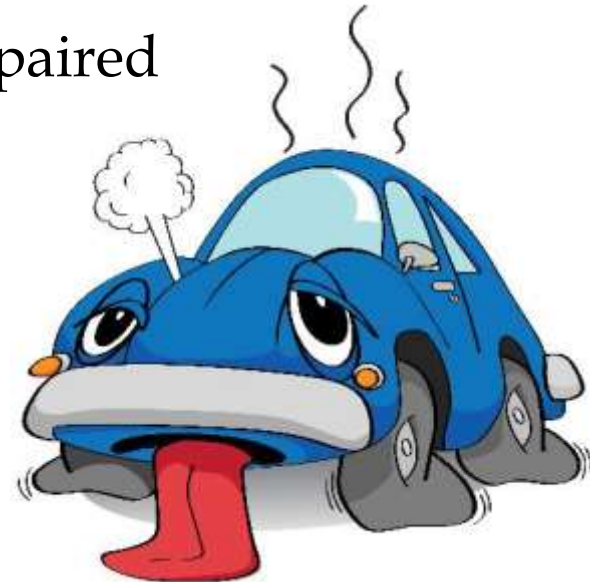
A Save electricity

- Computer that is turned off uses minimal electricity
- How much is used on an idling computer?
 - high degree of variability, but maybe...
 - desktop: 100 watts
 - laptop: 25 watts
- Computer in sleep mode uses about 1/3 of idling
 - allows you to get back to work quickly
- Hibernation mode uses almost zero electricity
 - saves computer state (open programs etc)
so you can get back to work quickly



A Save wear and tear

- Most computer components should last many, many years running 24x7
- Thermal expansion/contraction due to heating up and cooling probably no longer applies
- Storage devices wear out quicker when power left on?
 - HDD – mechanical device, “mean time between failure”
 - but I doubt life of an HDD significantly impaired
 - SSD – the computer is periodically writing even when idle
 - each storage cell can only be written to a number of times
 - doubt life of an SSD significantly impaired



A Prevent computer from being hacked

- A computer that is turned off can't be hacked
- But...
 - you need protections for when you are at the computer and using it
 - the same protections will protect your computer when you are not using it



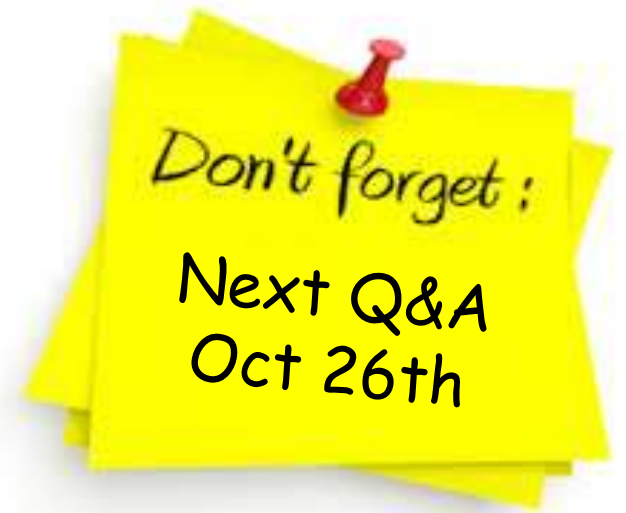


**Any other:
Questions
Comments
Shares?**



Suggestions for
topics for
presentations at:

**Monthly
meetings**



**Send your questions,
answers, and topics
you wish to share to:**

SuggestionBox@opcug.ca

