

**Is Wireless WIFI LAN ready
for worship?**



**OpenLP
108**



Setup OpenLP WIFI [wireless] LAN

Overhead Projector Display

Smart Phone
(Like iPhone or
Android)



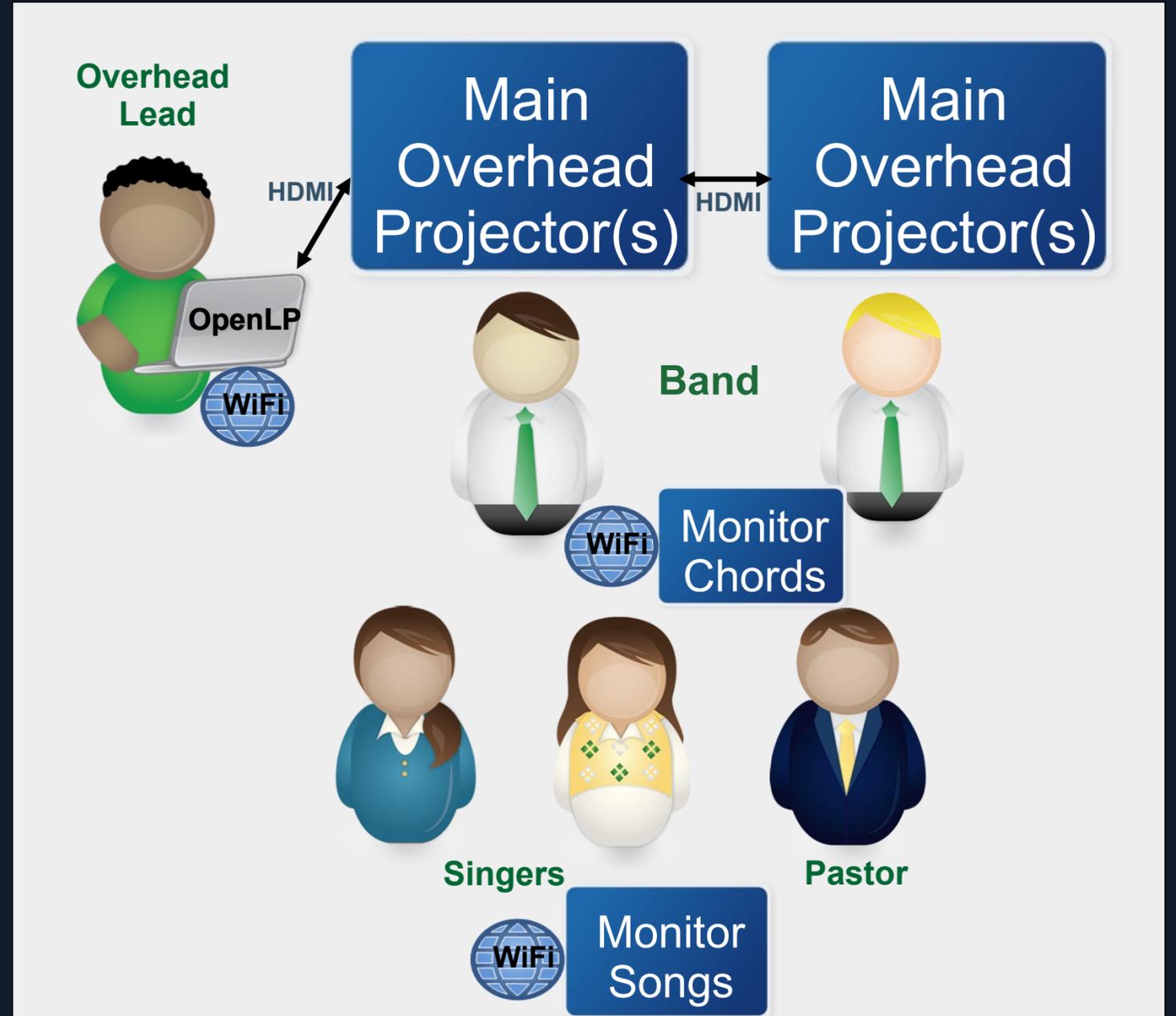
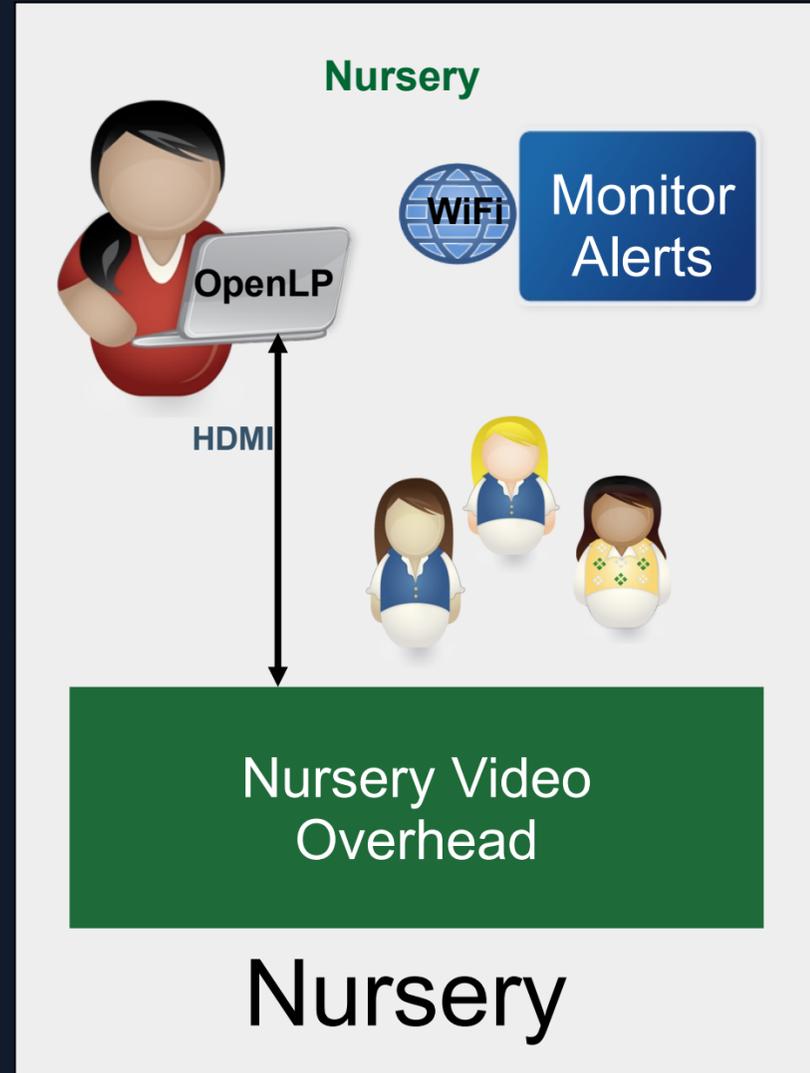
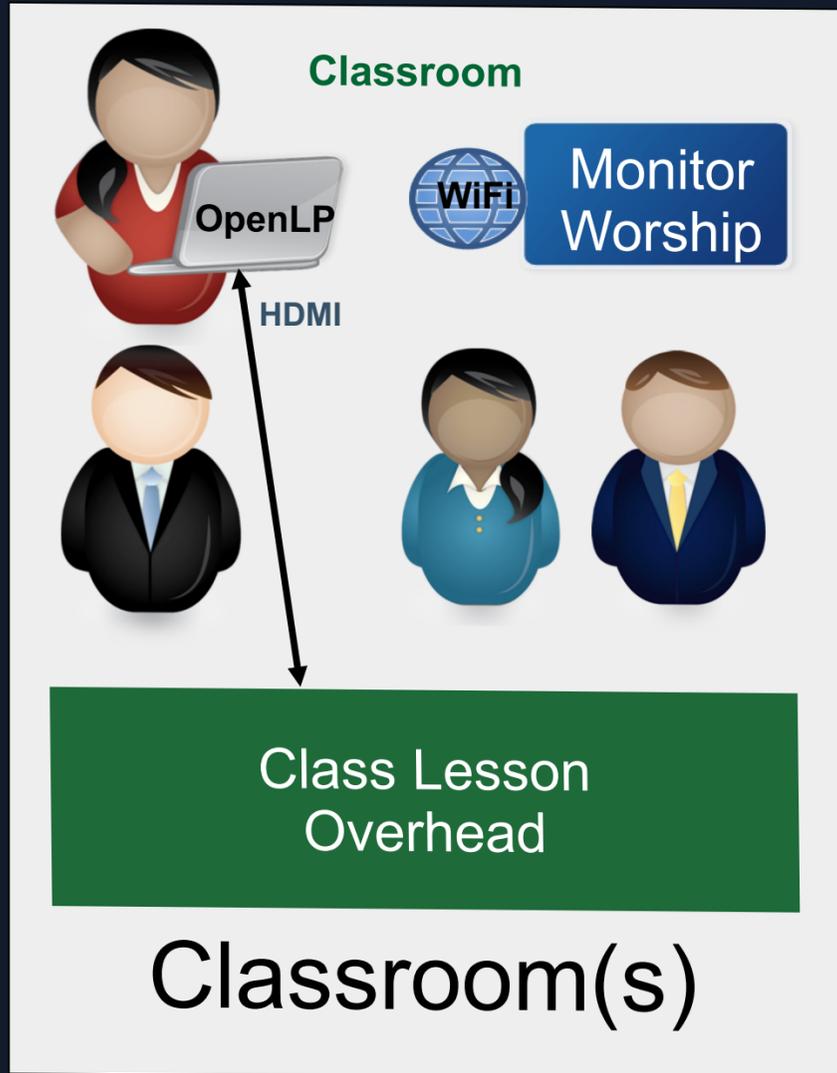
Overhead
Projector
PC at Church
(Windows 11/10)



WIFI Router
(Like Netgear or
Belkin)



God's Children, Worshiping God in Spirit and Truth as the Body of Christ!



“Congregation”
in
Worship Sanctuary



Church Operations Center

*“OpenLP can Help Pull it All Together”
Learn How It Works! It's FREE!*



Synopsis of OpenLP WIFI LAN

OpenLP gives you the ability to control the Service remotely. You can use an iOS or Android smartphone to control or monitor the entire service remotely at the stage, classroom or anywhere in your facilities that has a OpenLP WIFI Lan connection to your OpenLP Server PC. The **Server AND the smartphone** use the OpenLP SSID IP:Port as obtained using the Windows MS DOS “ipconfig” command. The overall steps to setting up the Remote devices are listed below:

- (1) Record the “WiFi” IP address **<IP>** “WiFi” of the Server PC connected to the Overhead projector(s).
- (2) The OpenLP Server PC communicates to all devices over **<IP>:Port 4316** (example: 192.168.0.11:4316)
- (3) Setup all portable devices by scanning the QDR code in OpenLP Settings at the OpenLP Server PC.
- (4) Laptops and PCs in other locations must connect the computer WIFI to the OpenLP SSID from Router
 - (a) On Laptops and PCs open a browser like FireFox, Chrome, or Microsoft Edge for one of the following:
 - (1) **<IP>:Port 4316/** use for WEB Remote Control of OpenLP running on OpenLP Server PC
 - (2) **<IP>:Port 4316/stage** use for monitor on stage where worship singers can see music **lyrics**
 - (3) **<IP>:Port 4316/chords** use for monitor on stage where worship band can see music **chords**
 - (4) **<IP>:Port 4316/main** use for overflow areas, classrooms where others can view the **overhead**

Disconnect OpenLP PC From WWW SSID

(1) **Left-Click** on Network icon at bottom right of PC screen for pop-up of all WWW **SSIDs**.



OpenLP
Server
PC at Church
(Windows 11/10)

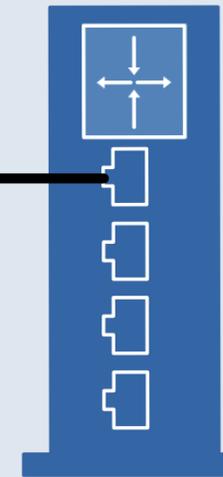


(2) **Right-Click** on each WIFI **SSID** and ensure that "all" **SSIDs** are displaying "**Connect**"; thereby ensuring all WIFI SSIDs are disconnected from OpenLP Server.

Connect OpenLP PC to Local Area Network

(1) Connect Ethernet cable from LAN Router to OpenLP to setup the Router for an OpenLP Wireless WIFI connection for 2G and 5G access.

OpenLP
Server
PC at
Church
(Windows 10)



Typically:
Netgear, Belkin, etc.

OpenLP 2G/5G
Local Area Network (LAN)
Router

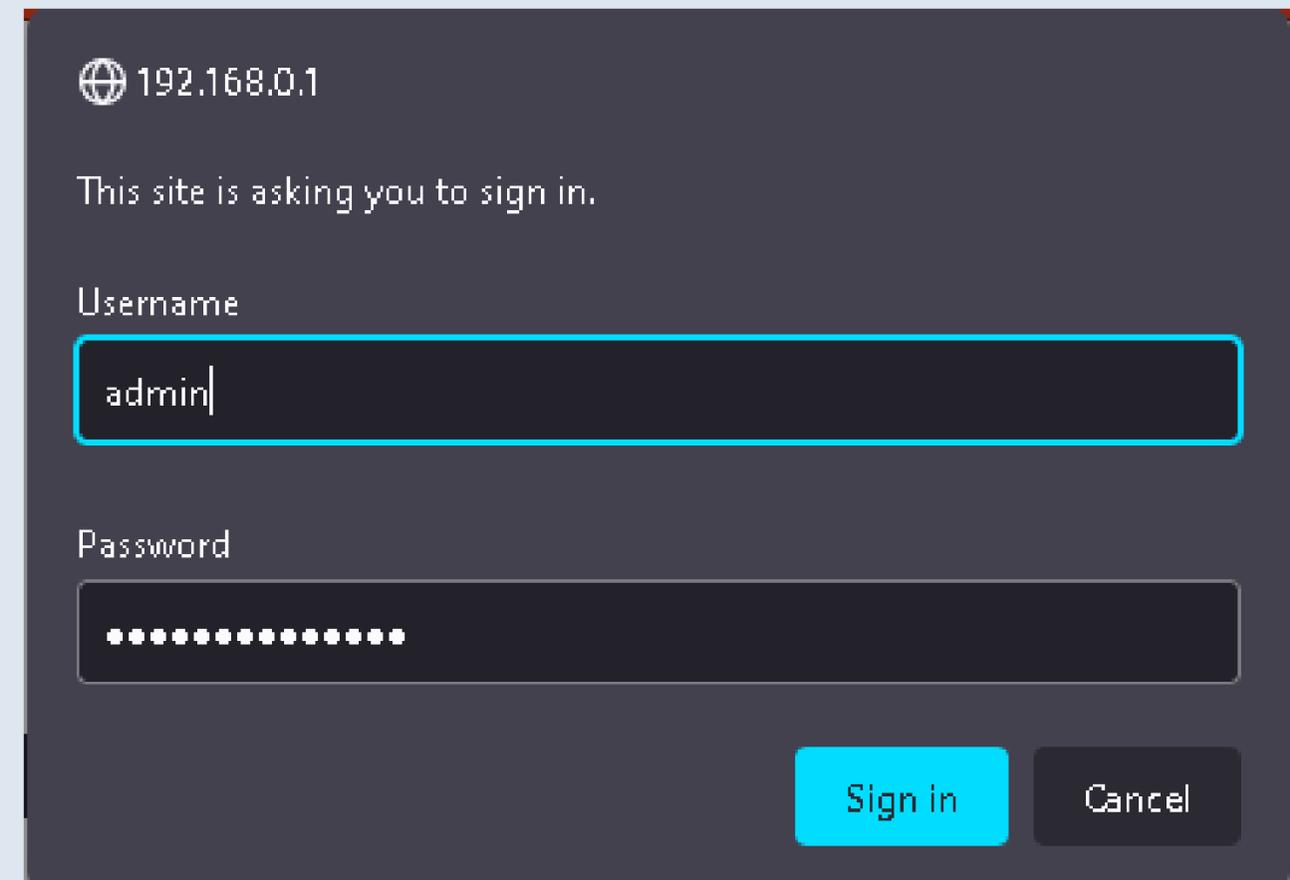
Login To Router (using Netgear example)

- (1) Open Internet browser application like Firefox, Chrome or Microsoft Edge on the OpenLP Server.
- (2) Power up **Router** that was connected to OpenLP Server PC. This Router will not be connected to the WWW. Instead, the Router will be used to setup an independent OpenLP Wireless WIFI to all devices in the sanctuary; thereby, limiting the OpenLP WIFI users to those leading the service.
- (3) Read the Router IP and login access information; normally on outside unit. If Router was previously used the press the Reset button and hold 5 seconds.

(4) Open Internet browser and insert IP address of Router into IP address text field at top of browser and press Enter. The Router screen should pop-up to Sign in to Router. Enter the Username and Password information that was found in step (3) above.

- **NOTE**

For this training I am using a Netgear model C7000 Router.



192.168.0.1

This site is asking you to sign in.

Username

Password

Sign in Cancel

OpenLP LAN Router Setup (part 1)

This is the BASIC screen:

- (1) **Left-Click** the Wireless
To setup the Wireless
Login for OpenLP WIFI.
- (2) The Router may require
another sign in for
authority to change.

The screenshot displays the NETGEAR genie web interface for a C7000-100NAS router. The interface is divided into two main sections: BASIC and ADVANCED. The BASIC section is currently active, showing a navigation menu on the left with options for Home, Cable Connection, Wireless, and Attached Devices. The main content area features several configuration tiles: Wireless (with a red 'X' icon), Attached Devices (showing 2 devices), ReadySHARE (with a USB icon), and Guest Network (with a status of NOT ENABLED). A sign-in dialog box is overlaid on the screen, displaying the URL 192.168.0.1 and the message "This site is asking you to sign in." The dialog box contains fields for Username (with "admin" entered) and Password (with masked characters). Buttons for "Sign in" and "Cancel" are visible at the bottom of the dialog box.

Setup Login for WIFI 2G & 5G (part 2)

This is the WIRELESS screen:

(1) Enter the SSID name for 2G

(2) Enter Password for 2G

(3) Enter the SSID name for 5G

(4) Enter Password for 5G

(5) Click Apply to activate

(6) Again Router requires authorization >

The screenshot shows the 'Wireless Setup' page of a router. On the left, a navigation menu has 'Wireless' selected. The main content area is divided into two sections: 'Wireless Network (2.4GHz b/g/n)' and 'Wireless Network (5GHz a/n/ac)'. Each section has a 'Name (SSID)' field, a 'Channel' dropdown, a 'Mode' dropdown, and 'Security Options' (None, WPA2-PSK [AES], WPA-PSK [TKIP] + WPA2-PSK [AES], WPAWPA2 Enterprise). A 'Passphrase' field is also present for each. A green 'Apply' button is at the top right. Blue arrows point from the numbered instructions to the corresponding fields: (1) to the 2G SSID field, (2) to the 2G Passphrase field, (3) to the 5G SSID field, (4) to the 5G Passphrase field, and (5) to the 'Apply' button. A red arrow points to the 'Apply' button. A separate window at the bottom left shows a sign-in prompt for 192.168.0.1 with 'admin' in the username field and a masked password field.

The screenshot shows a sign-in prompt for the router's IP address 192.168.0.1. The text reads 'This site is asking you to sign in.' Below this are two input fields: 'Username' with 'admin' entered, and 'Password' with a masked password of ten dots. At the bottom are 'Sign in' and 'Cancel' buttons.

Setup Login for WIFI 2G & 5G (part 3)

You can setup the OpenLP Server to a dedicated IP on this LAN or you can simply use the CMD window with IPCONFIG to determine the WIFI IP of the server. I suggest using IPCONFIG.

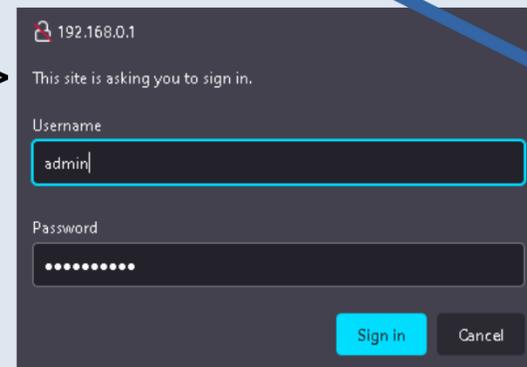
- (1) Left-Click **Home** for main **BASIC** screen.
- (2) Left-Click **Attached Devices** to see current IP for OpenLP PC. (Example 192.168.0.11 on my router)
- (3) Left-Click **ADVANCED** for advanced setup of Router.
- (4) Left-Click **WBS Wizard > Setup > LAN Setup**
- (5) Left-Click your server IP from step (2) to select your OpenLP PC

(6) Click **ADD** (suggest static/reserved OpenLP server) to activate this IP as the reserved Static IP for your OpenLP

(7) Again Router requires authorization >

(8) Left-Click **Logout** on Router Setup, all done!

(9) Close the **Browser**

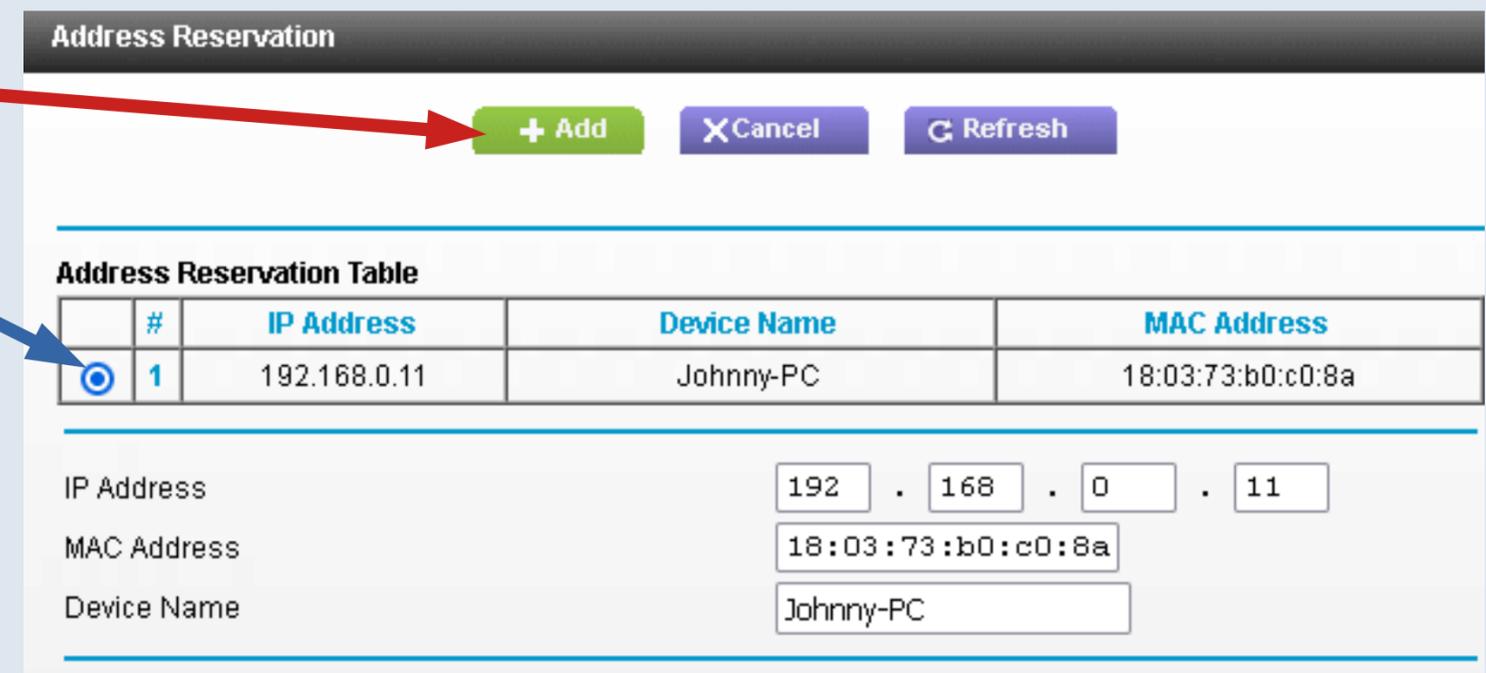


192.168.0.1
This site is asking you to sign in.

Username
admin

Password
.....

Sign In Cancel



Address Reservation

+ Add X Cancel Refresh

Address Reservation Table

	#	IP Address	Device Name	MAC Address
<input checked="" type="radio"/>	1	192.168.0.11	Johnny-PC	18:03:73:b0:c0:8a

IP Address: 192 . 168 . 0 . 11

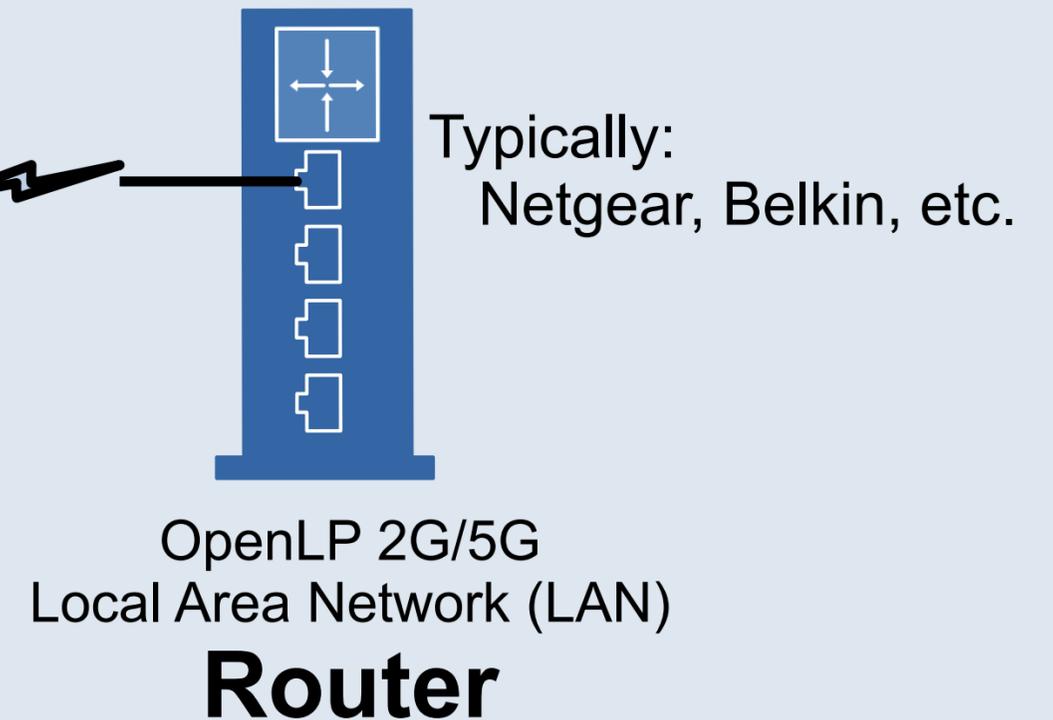
MAC Address: 18:03:73:b0:c0:8a

Device Name: Johnny-PC

Disconnect OpenLP PC to Local Area Network

(1) Dis-connect Ethernet cable from LAN Router to OpenLP to setup the Router for an OpenLP Wireless WIFI connection for 2G and 5G access.

OpenLP
Server
PC at
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Activation Reboot for WIFI LAN

REBOOT PC to implement new OpenLP WIFI LAN settings

The OpenLP WIFI LAN should be ready to use.

Note

The OpenLP Server PC IP at PC port 4316, can now be used setup all devices used by the leaders in the sanctuary When utilizing the Web Remote controls provided in the OpenLP application for controlling the service, monitoring service, monitoring music chords, monitoring music lyrics, etc.

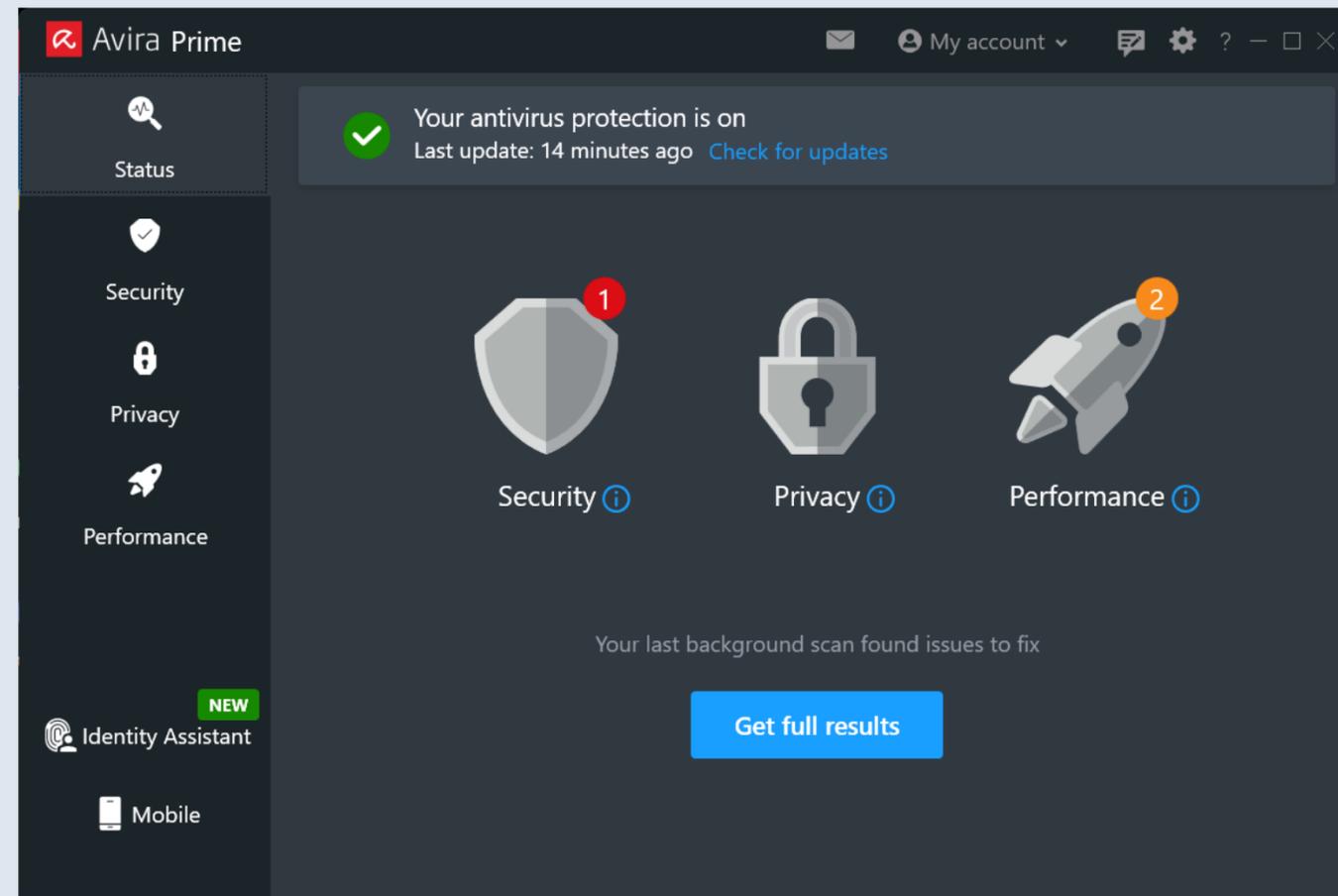
Note

The following slides are only a suggestion from AOG to secure both the WWW Internet FIREWALL and WIFI OpenLP LAN FIREWALL settings



Install Avira Prime (Avira Prime is a suggestion)

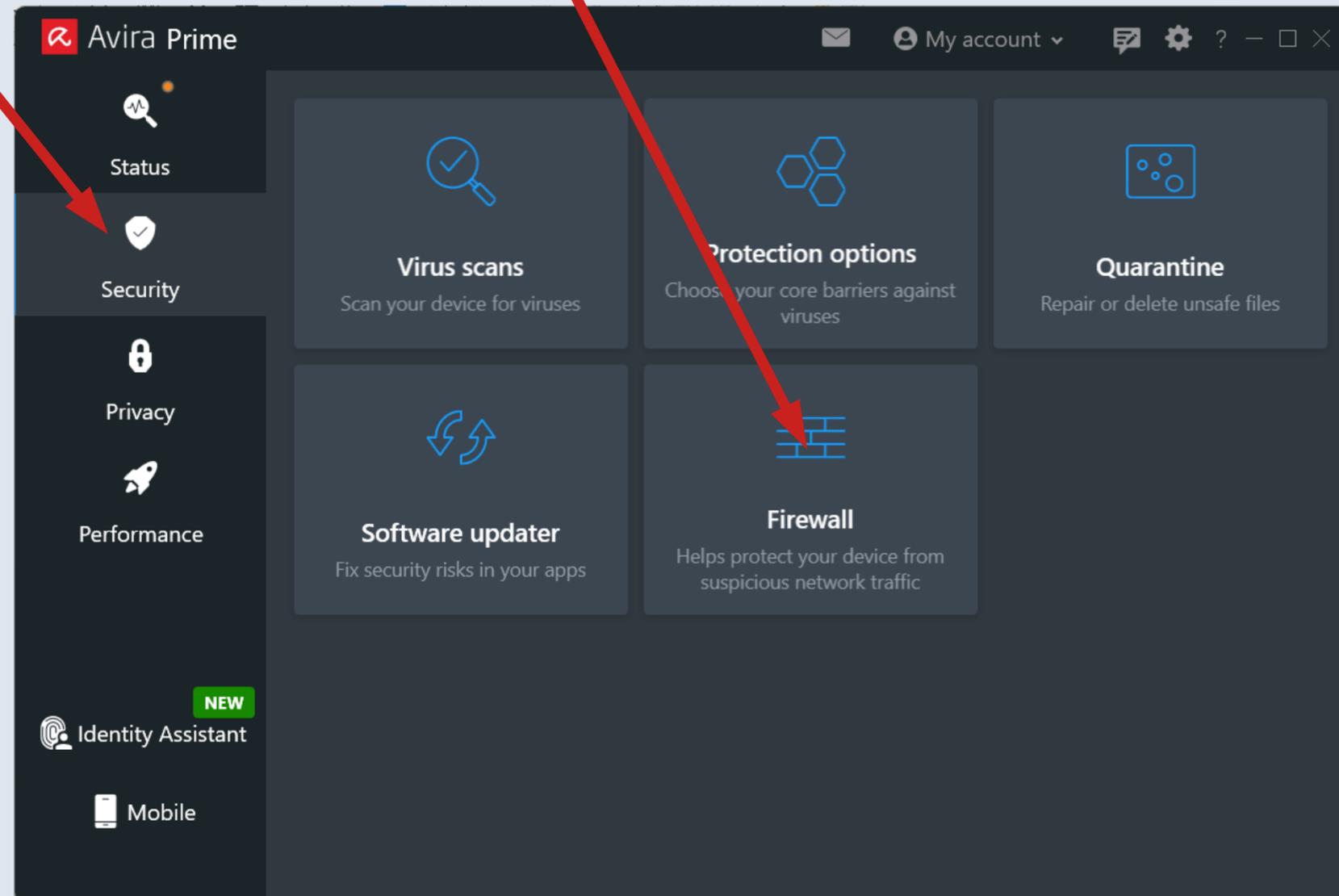
Install **Avira Prime** (suggested Internet Security program) on the OpenLP PC used as server for OpenLP Wireless (WIFI) LAN system. I found this the best Internet security software and PC optimizer on the market today. I purchased 25 copies and keep it on all my desktop, laptop, tablets used with OpenLP software.





Open Aviara Security, Firewall

Left-Click Security, then Left-Click Firewall to check Firewall settings





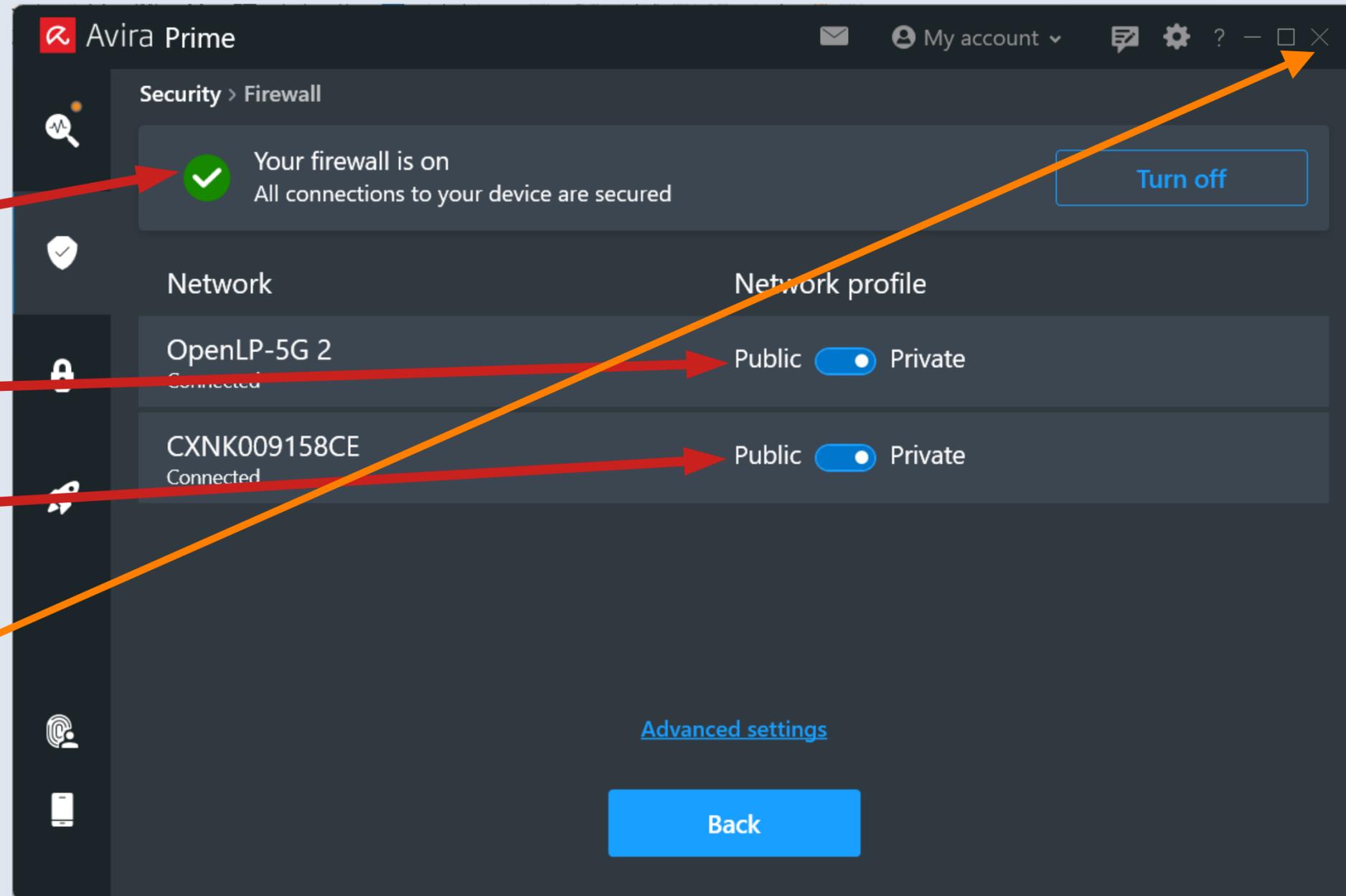
Setup Aviara Firewall

1) Ensure **firewall is on**

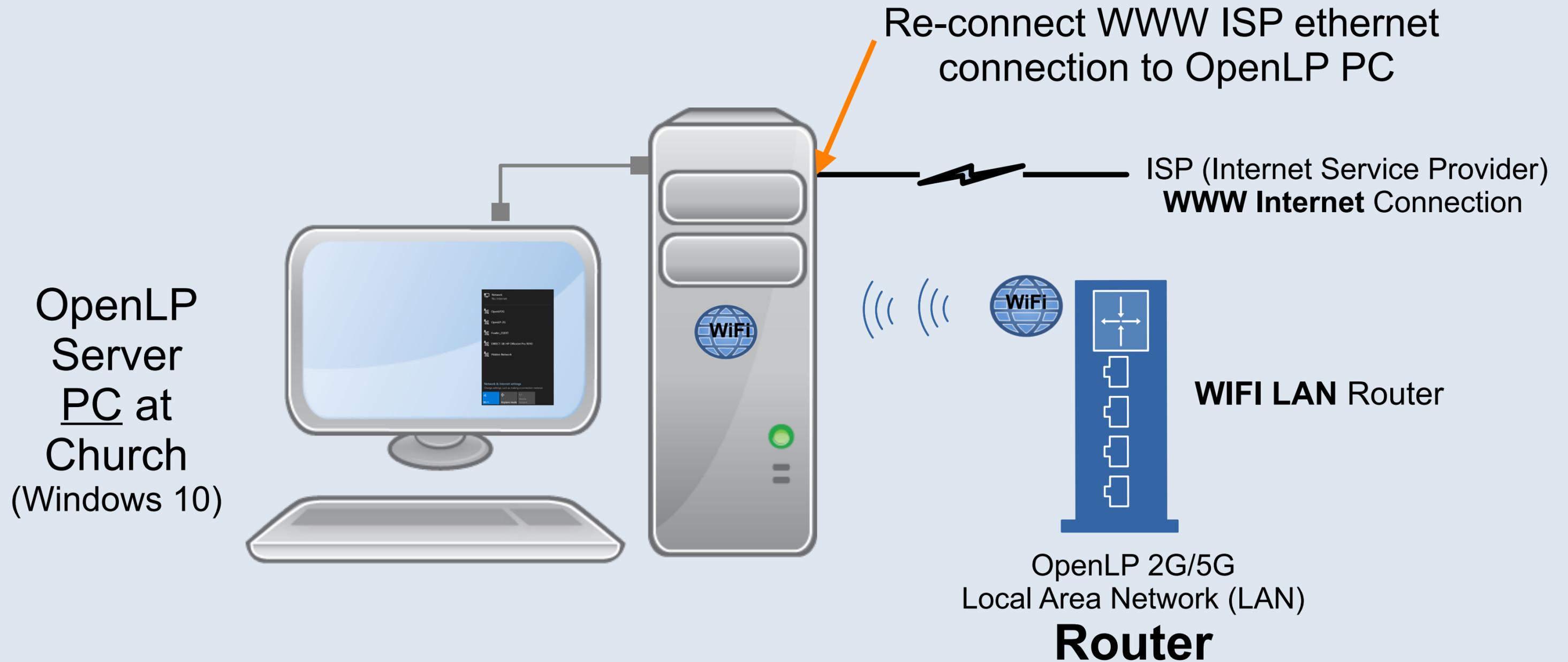
2) Ensure OpenLP Wifi LAN is **Private**

3) Ensure WWW Internet is **Private**

4) **Close Avira Prime**



Re-connect OpenLP PC From WWW ISP





OpenLP WIFI LAN

REBOOT PC to implement new OpenLP WIFI LAN **FIREWALL settings**

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The OpenLP Server PC IP at PC port 4316, can now be used setup all devices used by the leaders in the sanctuary When utilizing the Web Remote controls provided in the OpenLP application for controlling the service, monitoring service, monitoring music chords, monitoring music lyrics, etc.