

NETWORKING: ARAKNIS NETWORKS SETUP GUIDE

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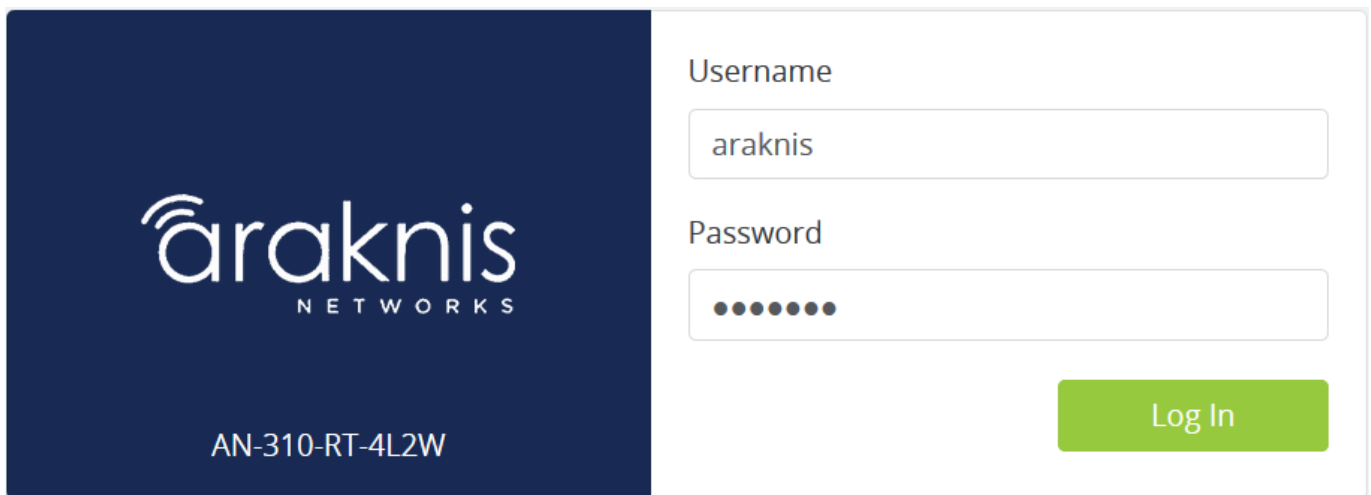
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INFORMATION

- This walkthrough will help guide you through your first Araknis Network Setup.

Step 1: Router Setup

1. Connect the Araknis router to the client's modem.
2. Once connected to the modem and a computer is connected to the router, navigate to the default IP of the router. 192.168.1.1.
3. Login to the device for the first time using the default login. araknis/araknis.



Username

Password

Log In

AN-310-RT-4L2W

4. After logging in is complete, navigate to System > WAN.
5. Here, the ISP WAN IP information will be provided from the modem, either via DHCP (default) or a Static WAN IP. Using a Static DNS is also available if the ISP provided DNS servers are not preferred.
6. Next, navigate to System > LAN.

7. In this section, the Name of the network can be changed, the Gateway IP of the network can be changed, and the DHCP IP Range can be edited to either increase the number of available IPs or lower the range according to the needs of the network. The DHCP Lease Time can also be altered from the default (12 hours/720 minutes) to meet the network needs as well. See LAN setup example:

VLAN ID
1

Name
default

Gateway IP ⓘ
192.168.1.1

Subnet Mask
255.255.255.0

DHCP Mode ⓘ
Server

IP Range
192.168.1.100 - 192.168.1.199

Lease Time ⓘ
720
minutes

DNS Server Mode ⓘ
Proxy

DNS 1
0.0.0.0

DNS 2
0.0.0.0

DHCP Options Delete

Cancel Apply

Step 2: Araknis Switch Setup

1. This section will discuss the basic setup of an Araknis Managed Switch.
2. The switch, unlike the router, will not have a default IP after it has been connected to the router and is assigned a DHCP address. An address for the switch can be found in the Araknis router under System > Clients and Services.
3. Once the address is located, navigate to the switches IP address. Login using the default credentials. araknis/araknis.



AUTHENTICATION REQUIRED

Username: araknis

Password: ●●●●●●

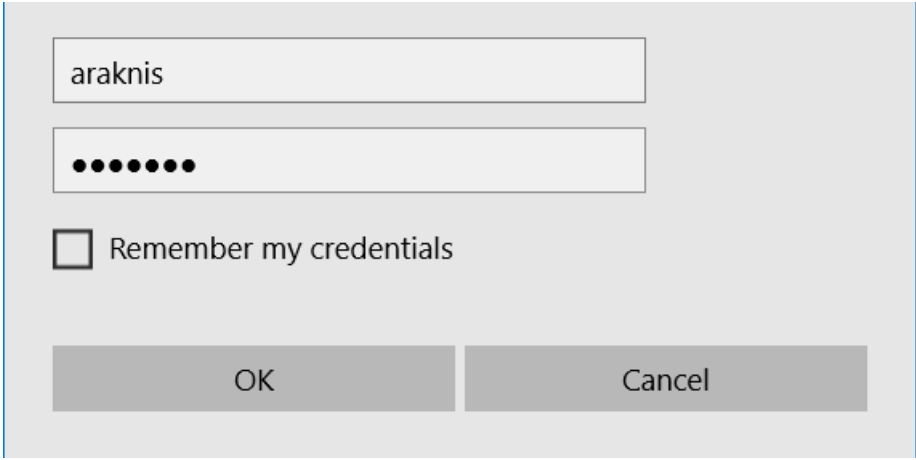
Log In

AN-210-SW-8-POE

4. Basic switch settings can be changed under Settings > System. Items such as changing the User Name and Password, setting a Static the IP address for the switch, Date and Time Settings, and Daylight Savings Time settings.
5. First, will be Spanning Tree Protocol (STP).
6. To access this setting, navigate to Advanced > STP > Global Settings.
7. Here, a few settings will need to be configured. First, ensure that STP State is Enabled. Then pay attention to the Bridge Address and the Root Address, as these will need to match via MAC Address. If they do not, navigate to the setting labeled Priority, and lower the value to 4096. This will ensure that the managed switch is the Root Bridge of the network (all traffic flows through the managed switch).
8. Basic Araknis switch setup is complete.

Step 3: Araknis Access Point Setup

1. Much like the Araknis Switch, the Access Points IP address will have to be found under the routers Clients and Services section.
2. Once the IP address has been located, navigate to the Access Points login page. Login using the default credentials. araknis/araknis.



The image shows a login form for the Araknis system. It features a text input field containing the username 'araknis'. Below it is a password input field with seven black dots representing masked characters. Underneath the password field is a checkbox labeled 'Remember my credentials', which is currently unchecked. At the bottom of the form are two buttons: 'OK' and 'Cancel'.

3. Much like the switch, basic settings such as login credentials, IP address, and Time settings can be adjusted under Settings > System.
4. Next, for basic setup, navigate to Settings > Wireless.
5. Here is where the client's SSID, Interface (2.4g/5g), and Security Mode (password) will be setup.
6. Create a SSID, replacing araknis_initial as the main SSID name. Both (2.4g/5g) will be the default band (Interface) that the SSID will operate on. When selecting Security Mode, WPA2-PSK will be the most commonly used security method. Once selected, a new window will open, and the password will need to be entered twice for verification.
7. Band Steering is an optional setting. This will allow 5g capable devices to jump from 2.4g to 5g when it is suited best for the device. It is recommended that it is enabled for an Interface setting of Both.
8. Fast Roaming is a setting designed for multiple Access Point systems so that a device can connect from one access point to another while moving through the Wi-Fi network.

9.

10. See Wi-Fi setup Example:

WIRELESS SETTINGS

CLOUD SERVER: Connected System Time: System Uptime:

Radio Settings

	2.4GHz	5GHz
Enable Interface	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
Operation Mode	Access Point	Access Point
Wireless Mode	802.11 B/G/N	802.11 AC/N
Operating Channel	Auto	Auto
Channel Bandwidth	20 MHz	80 MHz(AC Only)
Extension Channel	Upper Channel	

Utilization of SSID

	2.4GHz	5GHz
SSID's Used	2	2
SSID's Available	6	6

Global Settings

Band Steering OFF NOTE: Band Steering is not supported in repeater mode.

Fast Roaming OFF NOTE: Fast Roaming is not supported on the radio in use as the repeater.

Wireless Networks

Enable	Name (SSID)	Interface	Security Mode	Broadcast SSID	Client Isolation	Delete
<input checked="" type="checkbox"/> Yes	araknis_initial	Both	Open	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Enable	

Apply Changes:

11. After all changes have been made, select Save at the bottom of the page. Once the save is complete a flashing radio button labeled Apply Changes will appear. Select this button and apply all the changes.

Alternative Setup Method for Access Points

1. Via SnapAV's cloud-based platform, OvrC, the SSIDs, security keys, and other features can be set up and sent to all access points on site at once.
2. Once the WAPs are claimed in OvrC, navigate to Site Settings > Wireless Setup. See Example:

OvrC

Customers ALL

Search Customers

Example

0 OvrC Home Users
2 Device Count

DASHBOARD DEVICES **SITE SETTINGS** CLIENT SERVICES

General Settings

Wireless Setup
Configure wireless networks across access points at this location

3. After selecting Wireless Setup, a new window will appear asking for an SSID, Security Type, Security Passphrase, and which WAPs the SSID(s) will be sent to.

The screenshot displays the OvrC 'Easy Wireless Setup' configuration page. The page is titled 'Example' and shows the customer name 'Example' and location 'Example'. The main configuration area is titled 'Easy Wireless Setup' and includes the following fields and options:

- Wireless Network Name (SSID):** A text input field containing 'Example'.
- Security Type:** A dropdown menu set to 'WPA2-PSK'.
- Security Passphrase:** A text input field containing 'example'.
- Apply to:** A list of two wireless access points (WAPs) with checkboxes selected for both:
 - WAP 1 (192.168.1.108)
 - WAP 2 (192.168.1.102)

At the bottom right of the configuration area, there are 'Cancel' and 'Save' buttons. The sidebar on the left shows a 'Customers' list with a search bar and a '+ Add Customer' button. The top right corner displays '0 OvrC Home Users' and '2 Device Count'.

4. After hitting Save, then the Access Points will start to process the changes.
5. Lastly, Band Steering and the built in Guest Network can be enabled from another tab in OvrC.
6. This will have to be done in each WAP separately. Select a WAP > Configure.

7.

8. Here is where the Guest Network can be enabled as well as Band Steering. See Example:

CUSTOMERS > EXAMPLE > EXAMPLE >

WAP 1

CONNECT REBOOT MORE

DETAILS **CONFIGURE** ACTIVITIES

Wireless Network Configuration

[Add New Network](#)

[araknis_initial](#)
Broadcasting 2.4GHz Enabled

[araknis_initial](#)
Broadcasting 5GHz Enabled

Wireless Guest Network Configuration

[Araknis-2.4_GuestNetwork](#)
Broadcasting 2.4GHz Disabled

[Araknis-5.0_GuestNetwork](#)
Broadcasting 5GHz Disabled

Device Configuration

[Band Steering](#) ⓘ
Improve speed and capacity for crowded networks using 2.4GHz and 5GHz radios Enabled

[IP Settings](#)
Manage IP Settings

[Time Settings](#)
Manage Time Settings