Configuring Access Point ports with multiple VLANS

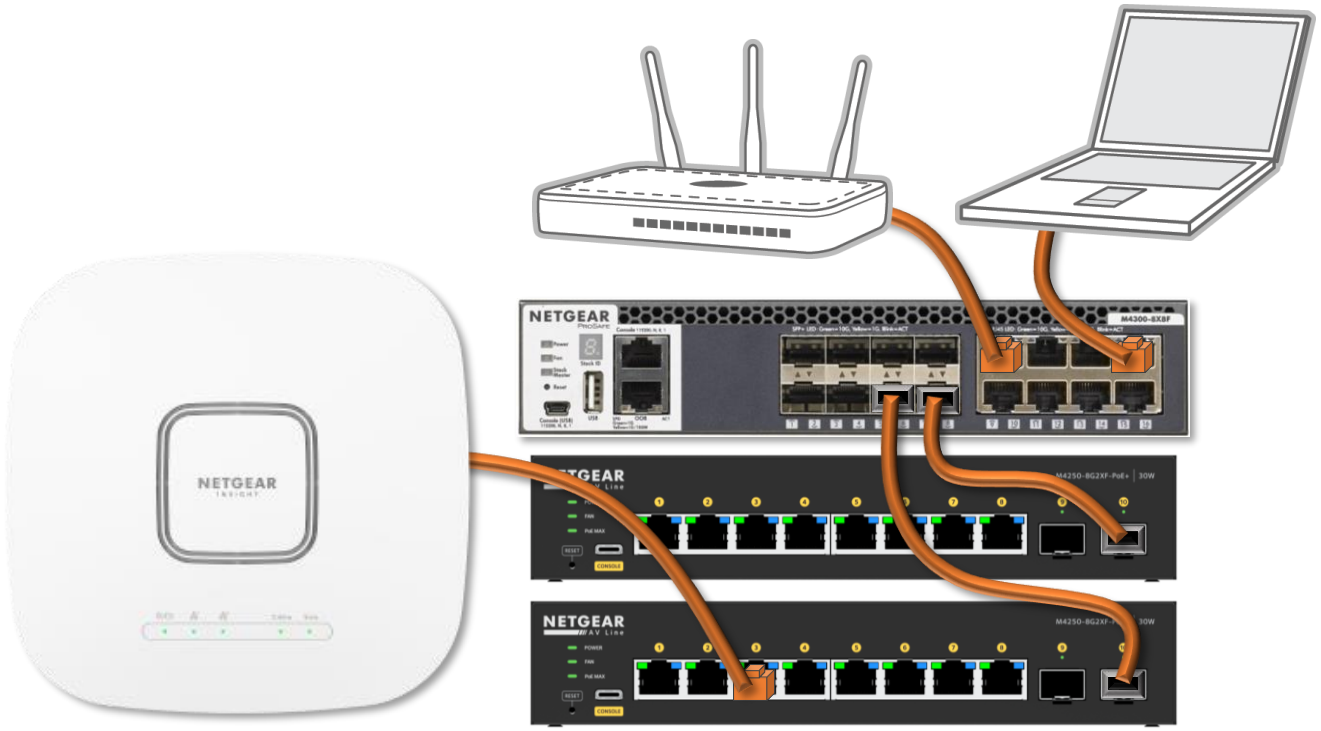
How to configure an access point with multiple SSIDs on separate VLANs and port configuration on a ProAV switch.

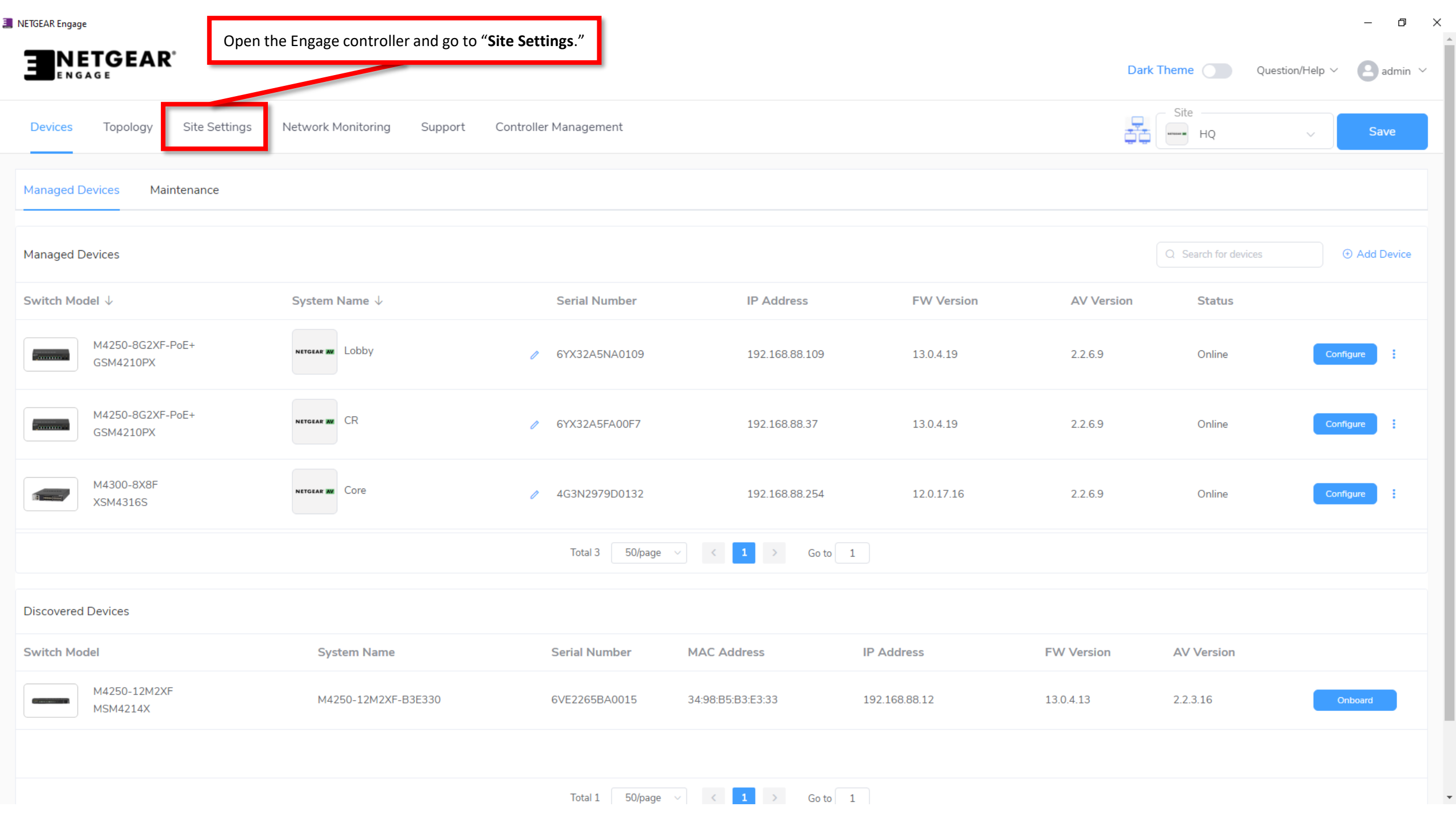
NETGEAR® AV

Configuring AP ports on a ProAV switch for multiple VLANs

In this guide we will go over how to configure a ProAV switch and a NETGEAR access point with multiple SSIDs on separate VLANs.

We are first going to configure the port on the switch to tag for VLANs 10 and 20 using Engage, then configure multiple SSIDs on a NETGEAR access point, where each SSID will be on a separate VLAN. VLAN 1 will not be tagged on the port, giving us 3 separate SSIDs for VLANs 1, 10, and 20.




NETGEAR Engage
NETGEAR ENGAGE
Open the Engage controller and go to "Site Settings."
Dark Theme
Question/Help
admin
Devices
Topology
Site Settings
Network Monitoring
Support
Controller Management
Site
HQ
Save
Managed Devices
Maintenance
Managed Devices
Search for devices
Add Device
Switch Model
System Name
Serial Number
IP Address
FW Version
AV Version
Status
M4250-8G2XF-PoE+
GSM4210PX
Lobby
6YX32A5NA0109
192.168.88.109
13.0.4.19
2.2.6.9
Online
Configure
M4250-8G2XF-PoE+
GSM4210PX
CR
6YX32A5FA00F7
192.168.88.37
13.0.4.19
2.2.6.9
Online
Configure
M4300-8X8F
XSM4316S
Core
4G3N2979D0132
192.168.88.254
12.0.17.16
2.2.6.9
Online
Configure
Total 3
50/page
1
Go to
1
Discovered Devices
Switch Model
System Name
Serial Number
MAC Address
IP Address
FW Version
AV Version
M4250-12M2XF
MSM4214X
M4250-12M2XF-B3E330
6VE2265BA0015
34:98:B5:B3:E3:33
192.168.88.12
13.0.4.13
2.2.3.16
Onboard
Total 1
50/page
1
Go to
1

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Here we can see that we already have two VLANs configured, VLAN 10 and 20.
For a guide on creating a new VLAN please go over the “Engage Provisioning AV Profiles” technical guides.

Dark Theme | Question/Help | admin

Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Network Profiles | Management VLAN and OOB | VLAN Routing and DHCP Server | IGMP Querier | Global Settings

Network Profiles

Export Worksheet | Create New Profile

Profile Name	Profile Template	VLAN ID	Management VLAN
Default	Data	1	✓
Dante 1	Audio Dante	10	
Lighting	Lighting	20	

Total 3 | 50/page | 1 | Go to 1

Click on the menu icon to the right of VLAN 10.

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Network Profiles | Management VLAN and OOB | VLAN Routing and DHCP Server | IGMP Querier | Global Settings

Network Profiles

Export Worksheet | Create New Profile

Profile Name	Profile Template	VLAN ID	Management VLAN
Default	Data	1	✓
Dante 1	Audio Dante	10	
Lighting	Lighting	20	

Total 3 | 50/page | 1 | Go to 1

Edit
Routing
Delete

Click on “Edit.”

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Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Edit Profile

Back to Network Profiles

1 Profile Template | 2 Profile Settings | 3 Port Assignment

Profile Template

Select the profile overview template to provide your AV profile template options

Profile Template: Audio Dante

Click on “Next.”

Next

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Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Edit Profile

Back to Network Profiles

1 Profile Template | 2 Profile Settings | 3 Port Assignment

Profile Settings

Configure you profile settings and and preferences

Profile Name: Dante 1

Profile Template: Audio Dante

VLAN ID: 10

Color: #0CC48C

Previous | Cancel | Next

Click on “Next.”

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Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Edit Profile | Back to Network Profiles

1 Profile Template | 2 Profile Settings | 3 Port Assignment

Profile Name: **Dante 1** | VLAN ID: **10** | Profile Template: **Audio Dante**

Show Legends | Refresh

The access point that we are configuring is on port 3 of the “Lobby” switch.

Total Number of Configured Switches: **2**

Search for Switch

Switch Name	Model	Configured Number of Ports	Configured Ports
Lobby	M4250-8G2XF-PoE+	2	M4250-8G2XF-PoE+ 1 2
Core	M4300-8X8F	1	M4300-8X8F 2

Previous | Cancel | Apply

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Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Edit Profile | Back to Network Profiles

1 Profile Template | 2 Profile Settings | 3 Port Assignment

Profile Name: **Dante 1** | VLAN ID: **10** | Profile Template: **Audio Dante**

Show Legends | Refresh

Lobby

Untag all

Click twice on the port that the access point is connected on until you see a small “T” on the port.

Total Number of Configured Switches: **2**

Search for Switch

Switch Name	Model	Configured Number of Ports	Configured Ports
Lobby	M4250-8G2XF-PoE+	2	M4250-8G2XF-PoE+ 1 2
Core	M4300-8X8F	1	M4300-8X8F 2

Previous | Cancel | Apply

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Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Edit Profile | Back to Network Profiles

1 Profile Template | 2 Profile Settings | 3 Port Assignment

Profile Name: **Dante 1** | VLAN ID: **10** | Profile Template: **Audio Dante**

Show Legends | Refresh

Lobby

Here is what the port will look like when you manually tag the port.

Untag all

Total Number of Configured Switches: **2**

Search for Switch

Switch Name	Model	Configured Number of Ports	Configured Ports
Lobby	M4250-8G2XF-PoE+	3	M4250-8G2XF-PoE+ 1 2 3
Core	M4300-8X8F	1	M4300-8X8F 2

Previous | Cancel | Apply

Click on “Apply.”

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Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Edit Profile | Back to Network Profiles

1 Profile Template | 2 Profile Settings | 3 Port Assignment

Profile Name: **Dante 1** | VLAN ID: **10** | Profile Template: **Audio Dante**

Show Legends | Refresh

Lobby

Edit Profile

Are you sure you want to apply network port assignments to all the switches on the site?

No | Yes

A pop-up will ask you if you are sure you want to make the changes.

Click on “Yes.”

Total Number of Configured Switches: **2**

Search for Switch

Switch Name	Model	Configured Number of Ports	Configured Ports
Lobby	M4250-8G2XF-PoE+	3	M4250-8G2XF-PoE+ 1 2 3
Core	M4300-8X8F	1	M4300-8X8F 2

Previous | Cancel | Apply

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Now that we have VLAN 10 configured we are going to configure VLAN 20.

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Site: HQ | Save

Network Profiles | Management VLAN and OOB | VLAN Routing and DHCP Server | IGMP Querier | Global Settings

Network Profiles

Export Worksheet | Create New Profile

Profile Name	Profile Template	VLAN ID	Management VLAN
Default	Data	1	✓
Dante 1	Audio Dante	10	
Lighting	Lighting	20	

Total 3 | 50/page | 1 | Go to 1

Click on the menu icon to the right of VLAN 20.

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Site: HQ | Save

Network Profiles | Management VLAN and OOB | VLAN Routing and DHCP Server | IGMP Querier | Global Settings

Network Profiles

Export Worksheet | Create New Profile

Profile Name	Profile Template	VLAN ID	Management VLAN
Default	Data	1	✓
Dante 1	Audio Dante	10	
Lighting	Lighting	20	

Total 3 | 50/page | 1 | Go to 1

Edit
Set as Management VLAN
Routing
Delete

Click on “Edit.”

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Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Edit Profile

Back to Network Profiles

1 Profile Template | 2 Profile Settings | 3 Port Assignment

Profile Template

Select the profile overview template to provide your AV profile template options

Profile Template: Lighting

Click on “Next.”

Next

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Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Edit Profile

Back to Network Profiles

1 Profile Template | 2 Profile Settings | 3 Port Assignment

Profile Settings

Configure you profile settings and and preferences

Profile Name: Lighting

Profile Template: Lighting

VLAN ID: 20

Color: #08A7D7

Previous | Cancel | Next

Click on “Next.”

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Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Edit Profile | Back to Network Profiles

1 Profile Template | 2 Profile Settings | 3 Port Assignment

Profile Name: **Lighting** | VLAN ID: **20** | Profile Template: **Lighting**

Show Legends | Refresh

Click on the “Lobby” switch.

Total Number of Configured Switches: **0**

Search for Switch

Switch Name	Model	Configured Number of Ports	Configured Ports

You have no configured switches for this network profile.

Please assign ports for this network profile by clicking on the Switch from the above section.

Previous | Cancel | Apply

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Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Edit Profile | Back to Network Profiles

1 Profile Template | 2 Profile Settings | 3 Port Assignment

Profile Name: **Lighting** | VLAN ID: **20** | Profile Template: **Lighting**

Show Legends | Refresh

Lobby

Untag all

Click twice on the port that the access point is connected on until you see a small “T” on the port.

Total Number of Configured Switches: **0**

Search for Switch

Switch Name	Model	Configured Number of Ports	Configured Ports

You have no configured switches for this network profile.

Please assign ports for this network profile by clicking on the Switch from the above section.

Previous | Cancel | Apply

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Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Edit Profile | Back to Network Profiles

1 Profile Template | 2 Profile Settings | 3 Port Assignment

Profile Name: **Lighting** | VLAN ID: **20** | Profile Template: **Lighting**

Show Legends | Refresh

Lobby

Untag all

Total Number of Configured Switches: **1**

Search for Switch

Switch Name	Model	Configured Number of Ports	Configured Ports
Lobby	M4250-8G2XF-PoE+	1	M4250-8G2XF-PoE+ 3

Previous | Cancel | Apply

Click on “Apply.”

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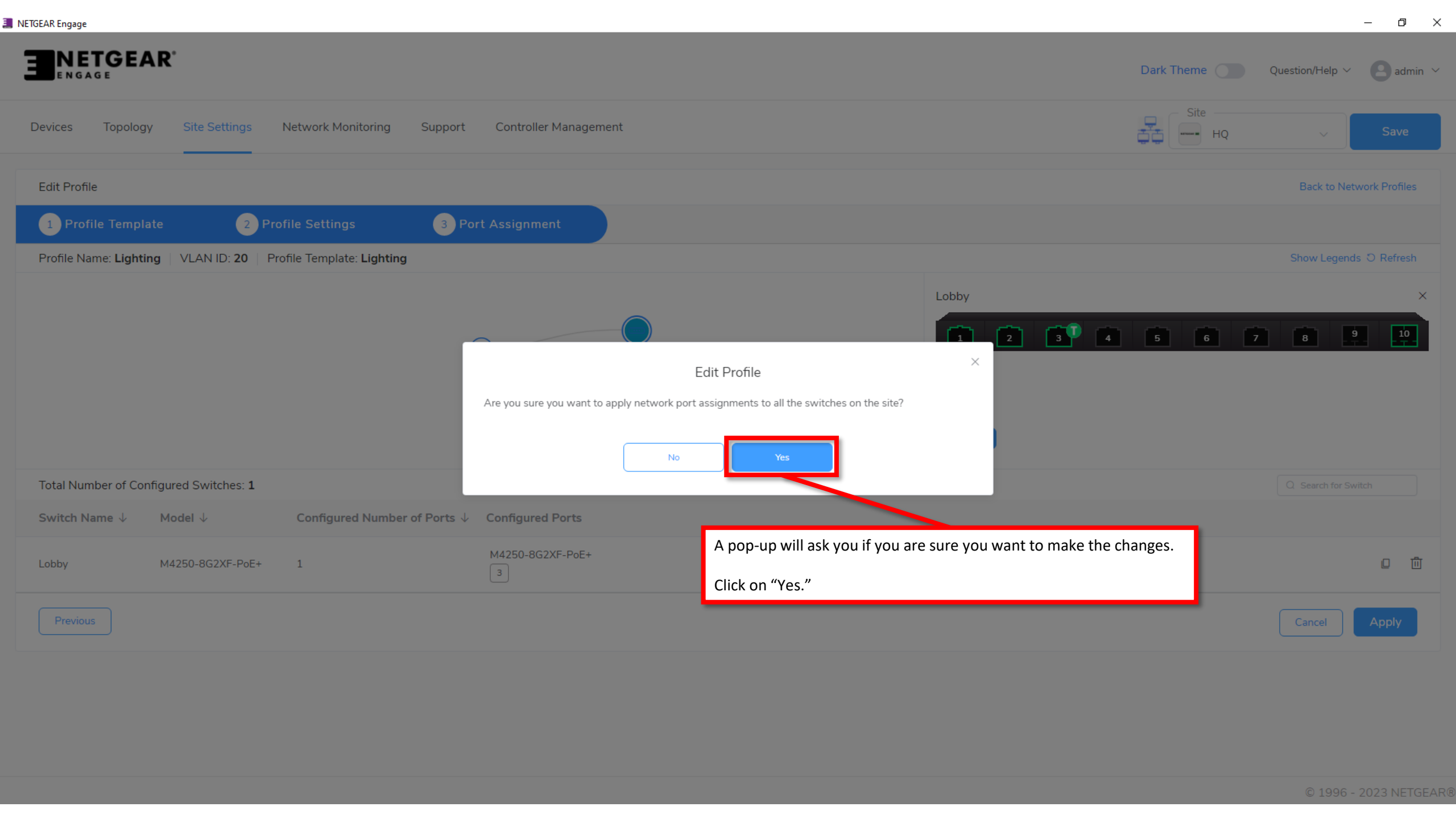
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Topology
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Support
Controller Management
Site
HQ
Save
Edit Profile
Back to Network Profiles
1 Profile Template
2 Profile Settings
3 Port Assignment
Profile Name: Lighting | VLAN ID: 20 | Profile Template: Lighting
Show Legends
Refresh
Lobby
1
2
3
4
5
6
7
8
9
10
Edit Profile
Are you sure you want to apply network port assignments to all the switches on the site?
No
Yes
Total Number of Configured Switches: 1
Search for Switch
Switch Name
Model
Configured Number of Ports
Configured Ports
Lobby
M4250-8G2XF-PoE+
1
M4250-8G2XF-PoE+
3
Previous
Cancel
Apply
A pop-up will ask you if you are sure you want to make the changes.
Click on “Yes.”
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Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Network Profiles | Management VLAN and OOB | VLAN Routing and DHCP Server | IGMP Querier | Global Settings

Network Profiles

Export Worksheet | Create New Profile

Profile Name	Profile Template	VLAN ID	Management VLAN
Default	Data	1	✓
Dante 1	Audio Dante	10	
Lighting	Lighting	20	

Total 3 | 50/page | 1 | Go to 1

Now that we have the switch configured, we are going to go through the configuration on the access point.

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NETGEAR WAX630

Not secure https://192.168.88.165/AP_login

NETGEAR®

NETGEAR® Insight Managed WiFi 6 AX6000 Tri-Band Multi-Gig Access Point (WAX630)

Open a browser and go to the IP address of the access point.

Username

username

Password

password

Login

NETGEAR Engage

NETGEAR ENGAGE

Dark Theme | Question/Help | admin

Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Managed Devices | Maintenance

If you are not sure what the IP address of the access point is click on "Configure" on the switch the access point is connected to.

Managed Devices

Search for devices | Add Device

Switch Model	System Name	Serial Number	IP Address	FW Version	AV Version	Status	
M4250-8G2XF-PoE+ GSM4210PX	Lobby	6YX32A5NA0109	192.168.88.109	13.0.4.19	2.2.6.9	Online	Configure
M4250-8G2XF-PoE+ GSM4210PX	CR	6YX32A5FA00F7	192.168.88.37	13.0.4.19	2.2.6.9	Online	Configure
M4300-8X8F XSM4316S	Core	4G3N2979D0132	192.168.88.254	12.0.17.16	2.2.6.9	Online	Configure

Total 3 | 50/page | 1 | Go to 1

Discovered Devices

Switch Model	System Name	Serial Number	MAC Address	IP Address	FW Version	AV Version	
M4250-12M2XF MSM4214X	M4250-12M2XF-B3E330	6VE2265BA0015	34:98:B5:B3:E3:33	192.168.88.12	13.0.4.13	2.2.3.16	Onboard

Total 1 | 50/page | 1 | Go to 1

NETGEAR Engage

NETGEAR ENGAGE

Dark Theme | Question/Help | admin

Devices | Topology | Site Settings | Network Monitoring | Support | Controller Management

Site: HQ | Save

Devices Management

Configure
- Overview
- Network Profiles
- Link Aggregation
- Multicast
- Neighbor
- Power over Ethernet
- Port configuration
- Security
- Maintenance

Diagnostics

Overview

Configure | Overview

M4250-8G2XF-PoE+

Show Legends

Connected | Connected & | Disabled

Available | Blocked | Down

Force-Authorized | Force-Unauth | rized

LAG | VLAN Trunk | Trunk

PoE Disabled | Force Multica | P Fiber Port | 10G SFP+ Fiber Port

Crestron Device Connected | Shure Device | ary Device Connected | NUCLEUS Device Connected

Host :	WAX630
MAC Address :	C8:9E:43:08:32:BF
IP Address :	192.168.88.165
LLDP Remote ID :	C8:9E:43:08:32:BF
Received Rate(Mbps) :	0.0
Transmitted Rate(Mbps) :	6.0
Power Usage :	9 Watts
Port Type :	Copper
Link Speed :	1000 Full
VLAN ID :	10,20,1

Here we can see the IP address of the access point.

Device Details

Product Name	Serial Number	Model	Date & Time	Country/Region	Base MAC Address	System Name
M4250	6YX32A5NA0109	M4250-8G2XF-PoE+	2024-01-19 23:59:56	N/A	94:18:65:7D:5D:6D	Lobby

Firmware Version	AV UI Version	Boot Version	System Uptime	OOB IP Address	Management IP Address	STP Network Redundancy
13.0.4.19	2.2.6.9	1.0.0.11	0 days, 0 hrs, 39 mins, 20 secs	0.0.0.0	192.168.88.109	Neutral mode (default)

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NETGEAR WAX630

Not secure https://192.168.88.165/AP_login

NETGEAR®

NETGEAR® Insight Managed WiFi 6 AX6000 Tri-Band Multi-Gig Access Point (WAX630)

Username

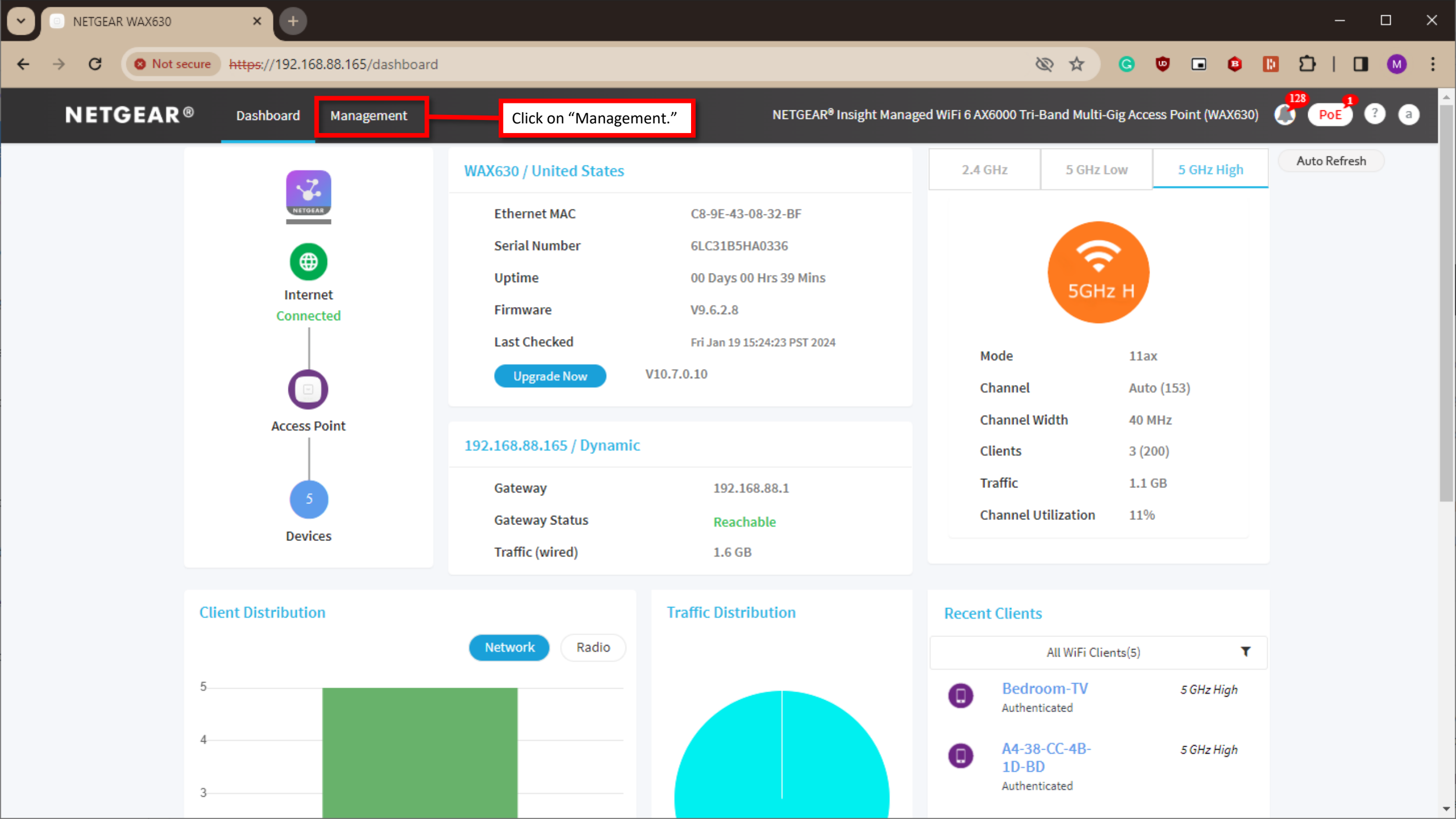
username

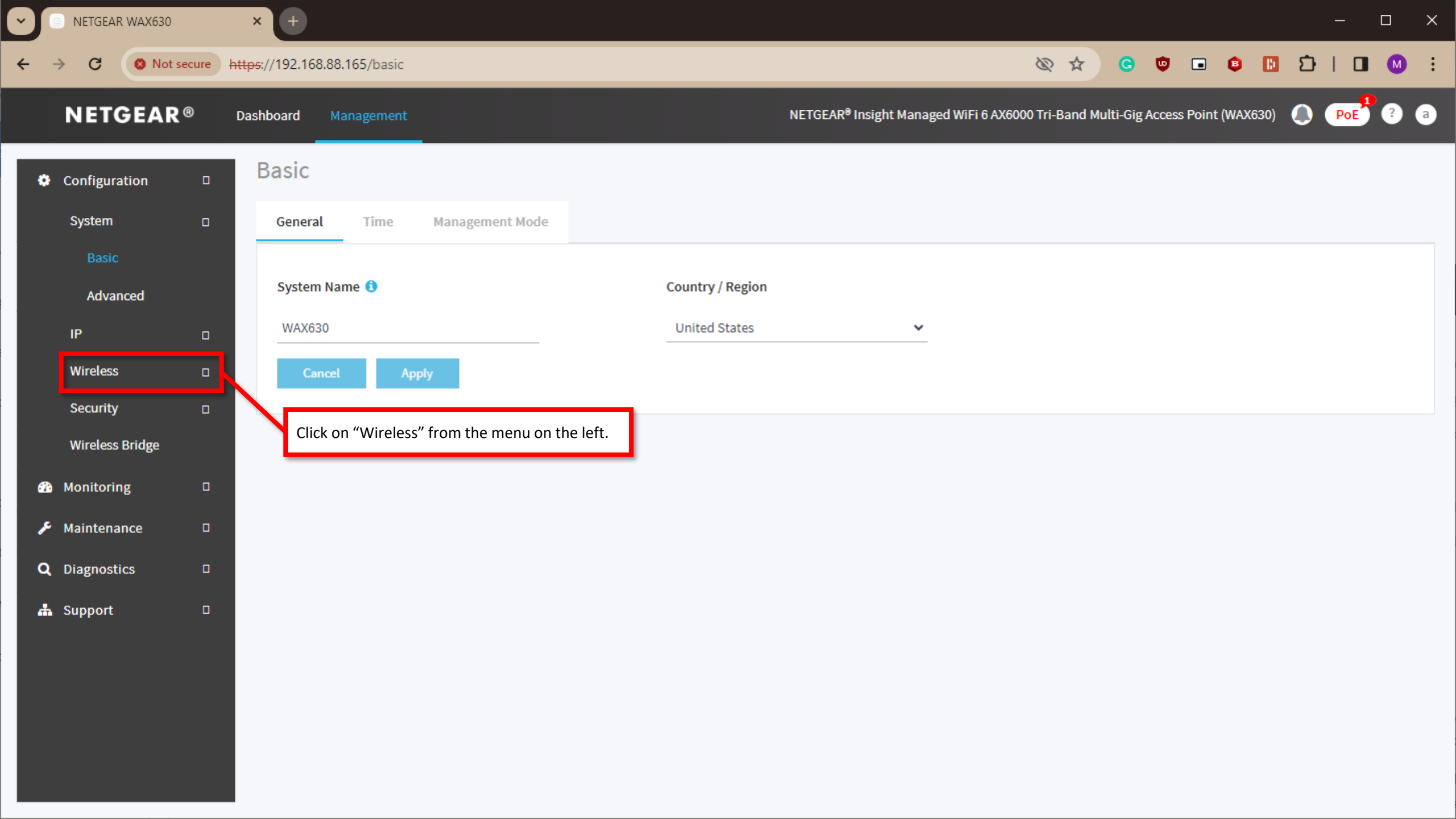
Password

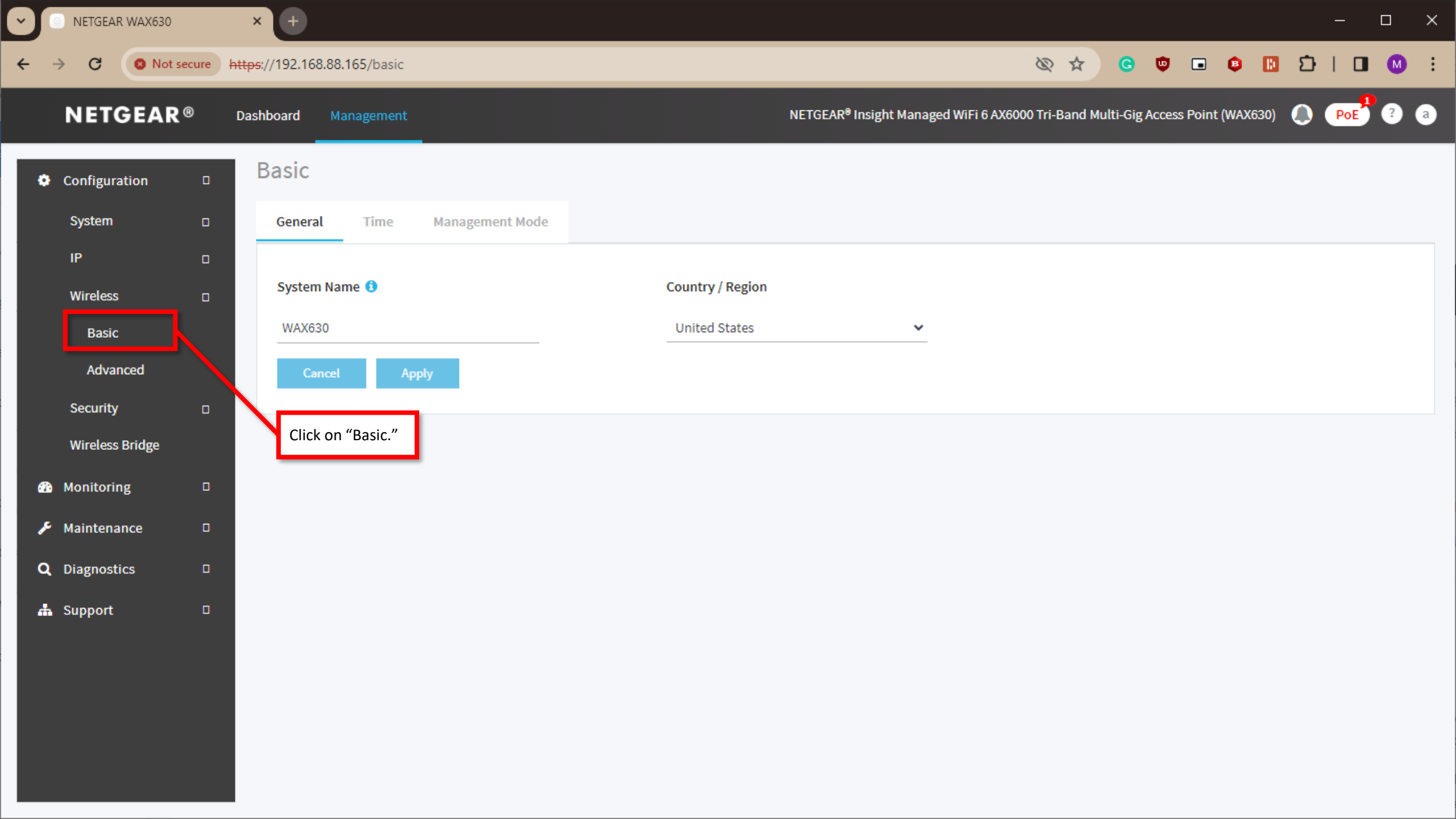
password

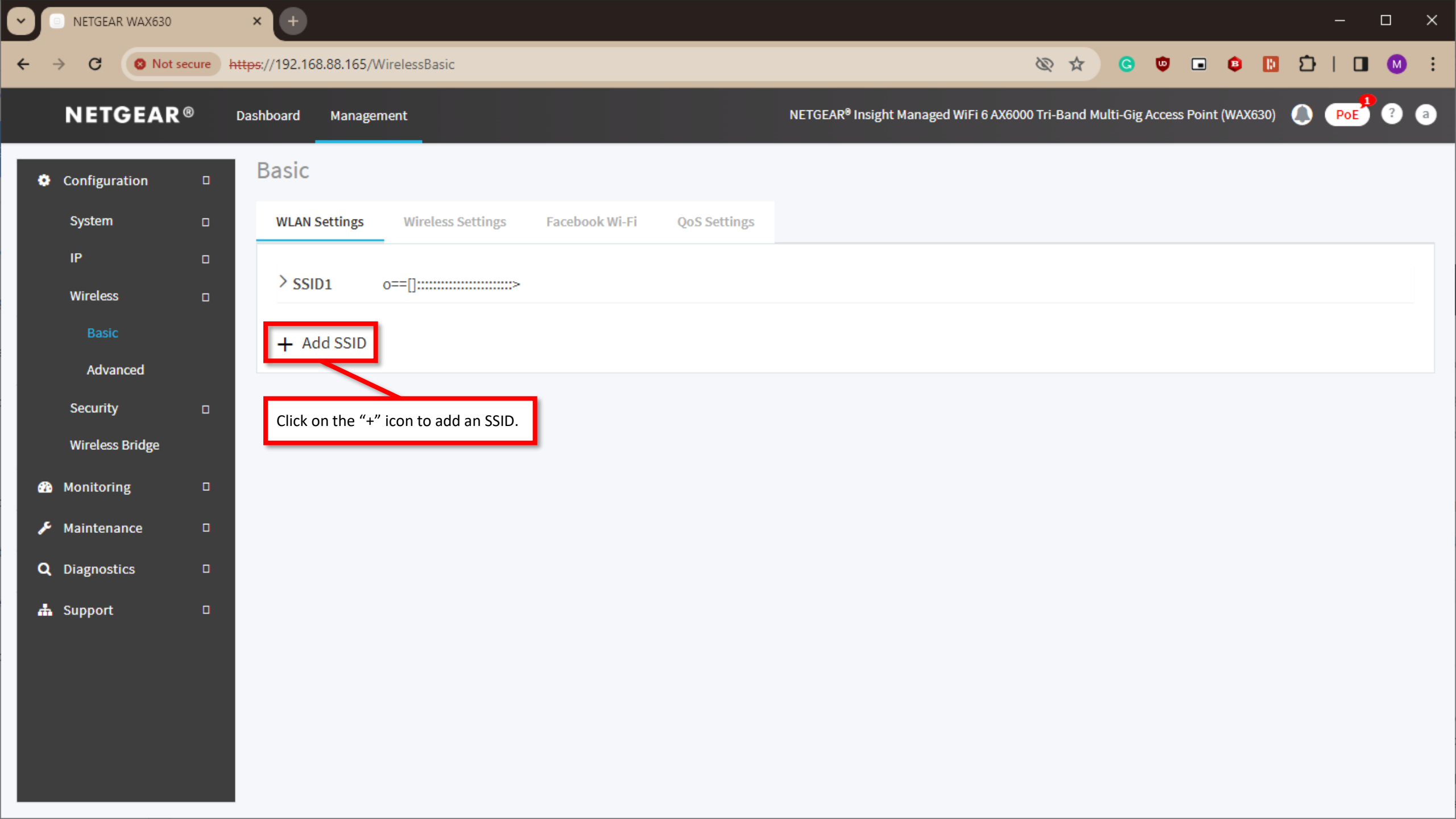
Login

Login to the access point.


NETGEAR WAX630
Not secure
https://192.168.88.165/dashboard
NETGEAR®
Dashboard
Management
Click on “Management.”
NETGEAR® Insight Managed WiFi 6 AX6000 Tri-Band Multi-Gig Access Point (WAX630)
128
PoE
1
Internet
Connected
Access Point
5
Devices
WAX630 / United States
Ethernet MAC C8-9E-43-08-32-BF
Serial Number 6LC31B5HA0336
Uptime 00 Days 00 Hrs 39 Mins
Firmware V9.6.2.8
Last Checked Fri Jan 19 15:24:23 PST 2024
Upgrade Now
V10.7.0.10
192.168.88.165 / Dynamic
Gateway 192.168.88.1
Gateway Status Reachable
Traffic (wired) 1.6 GB
2.4 GHz
5 GHz Low
5 GHz High
Auto Refresh
5GHz H
Mode 11ax
Channel Auto (153)
Channel Width 40 MHz
Clients 3 (200)
Traffic 1.1 GB
Channel Utilization 11%
Client Distribution
Network
Radio
5
4
3
Traffic Distribution
Recent Clients
All WiFi Clients(5)
Bedroom-TV
Authenticated
5 GHz High
A4-38-CC-4B-1D-BD
Authenticated
5 GHz High


NETGEAR WAX630
Not secure
https://192.168.88.165/basic
NETGEAR®
Dashboard
Management
NETGEAR® Insight Managed WiFi 6 AX6000 Tri-Band Multi-Gig Access Point (WAX630)
PoE
Configuration
System
Basic
Advanced
IP
Wireless
Security
Wireless Bridge
Monitoring
Maintenance
Diagnostics
Support
Basic
General
Time
Management Mode
System Name
WAX630
Country / Region
United States
Cancel
Apply
Click on “Wireless” from the menu on the left.


NETGEAR WAX630
Not secure
https://192.168.88.165/basic
NETGEAR®
Dashboard
Management
NETGEAR® Insight Managed WiFi 6 AX6000 Tri-Band Multi-Gig Access Point (WAX630)
PoE
Configuration
System
IP
Wireless
Basic
Advanced
Security
Wireless Bridge
Monitoring
Maintenance
Diagnostics
Support
Basic
General
Time
Management Mode
System Name
WAX630
Country / Region
United States
Cancel
Apply
Click on “Basic.”


NETGEAR WAX630
Not secure
https://192.168.88.165/WirelessBasic
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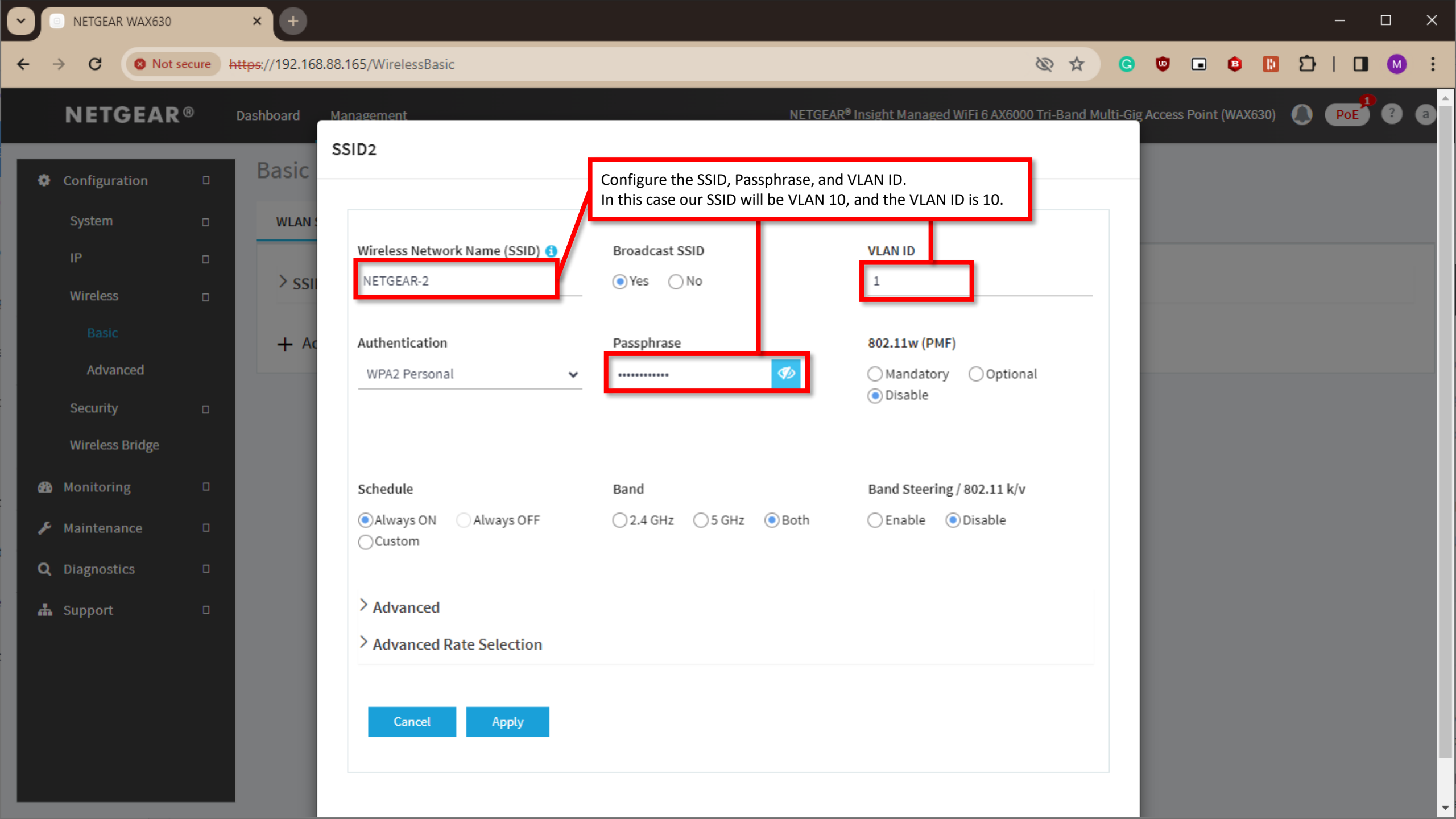
Dashboard
Management
NETGEAR® Insight Managed WiFi 6 AX6000 Tri-Band Multi-Gig Access Point (WAX630)
PoE
Configuration
System
IP
Wireless
Basic
Advanced
Security
Wireless Bridge
Monitoring
Maintenance
Diagnostics
Support
Basic
WLAN Settings
Wireless Settings
Facebook Wi-Fi
QoS Settings
SSID1
o==[]::::::::::::::::::::::::>
+ Add SSID
Click on the “+” icon to add an SSID.


NETGEAR WAX630
Not secure
https://192.168.88.165/WirelessBasic
NETGEAR®
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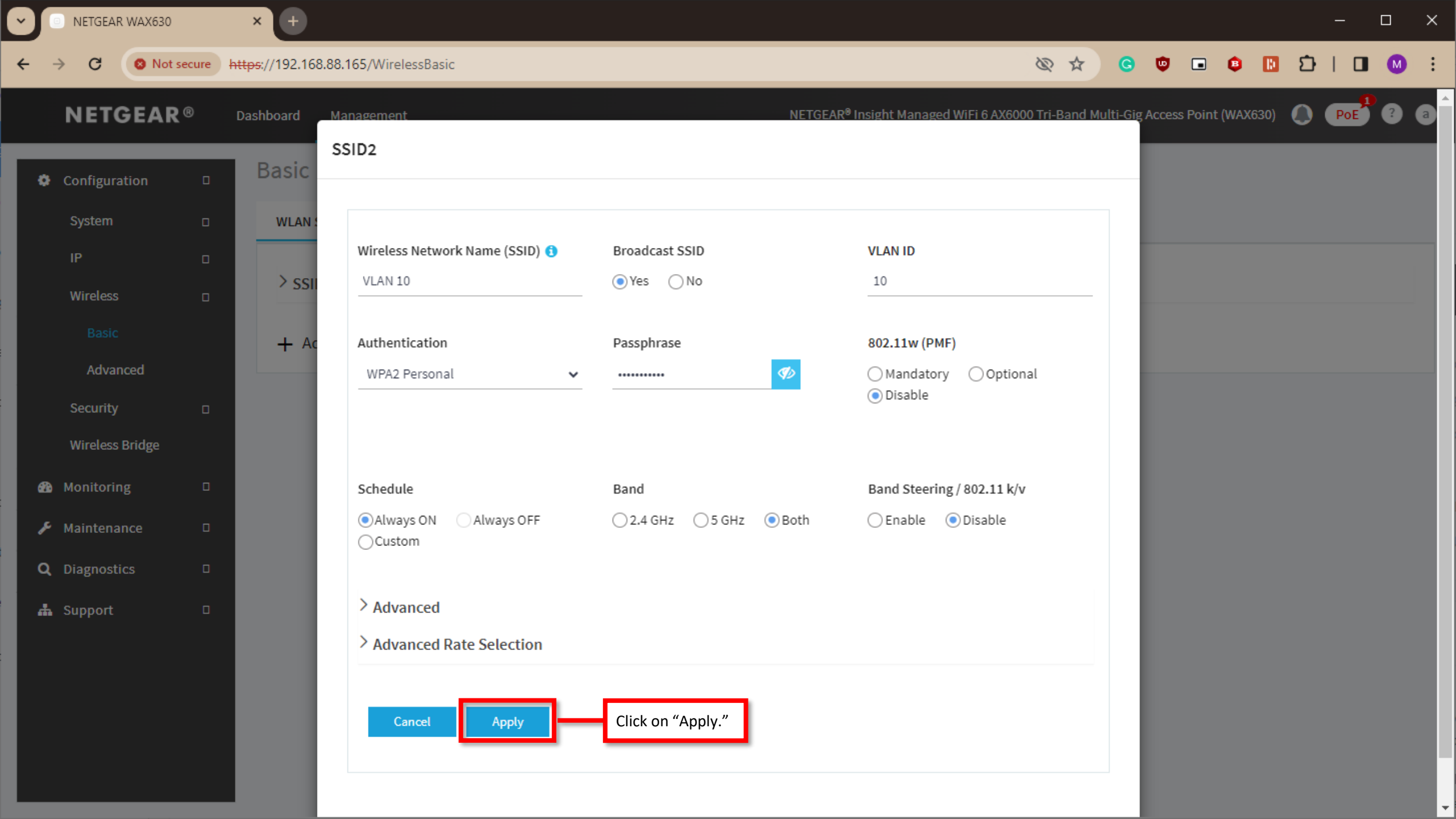
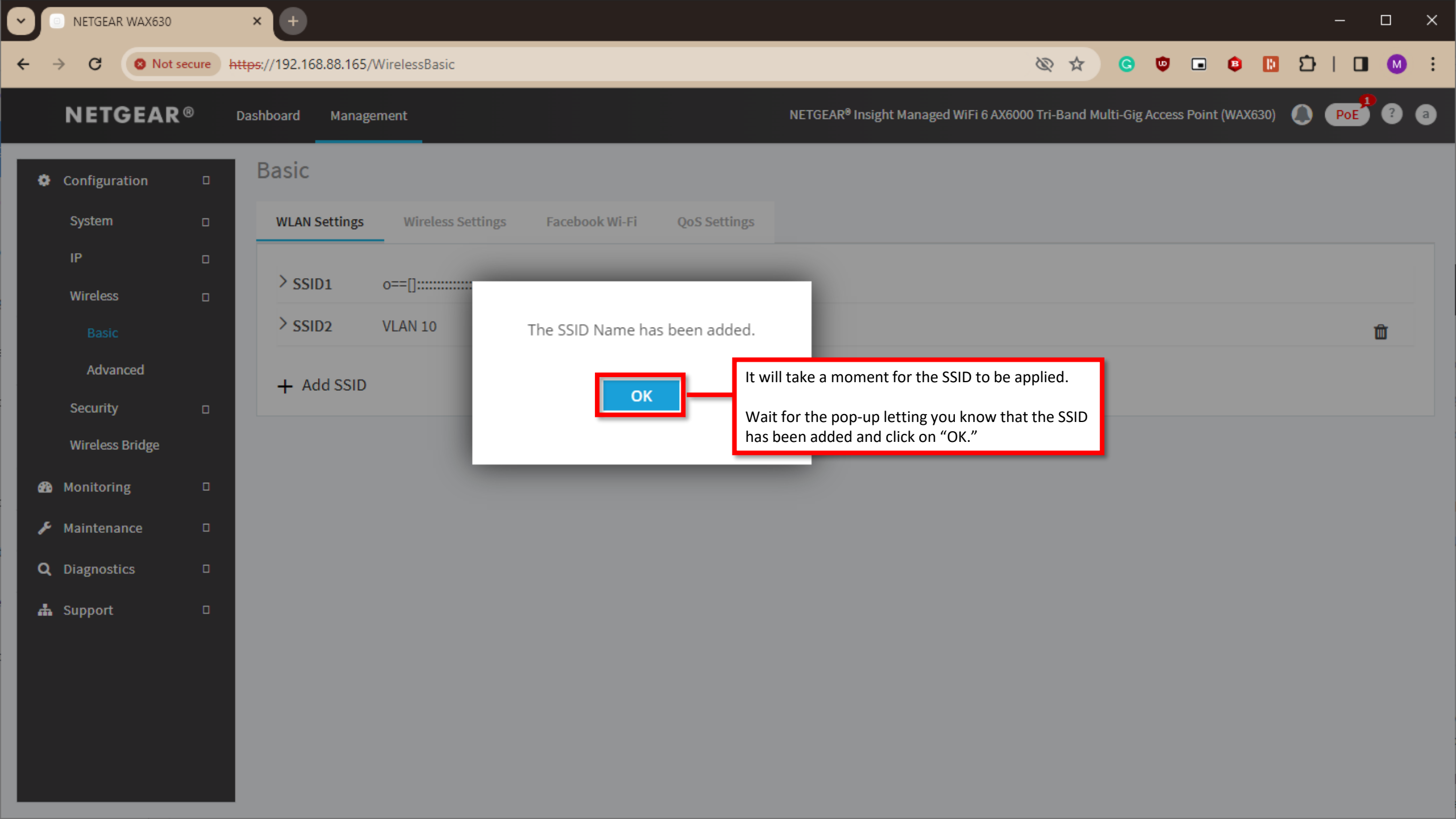
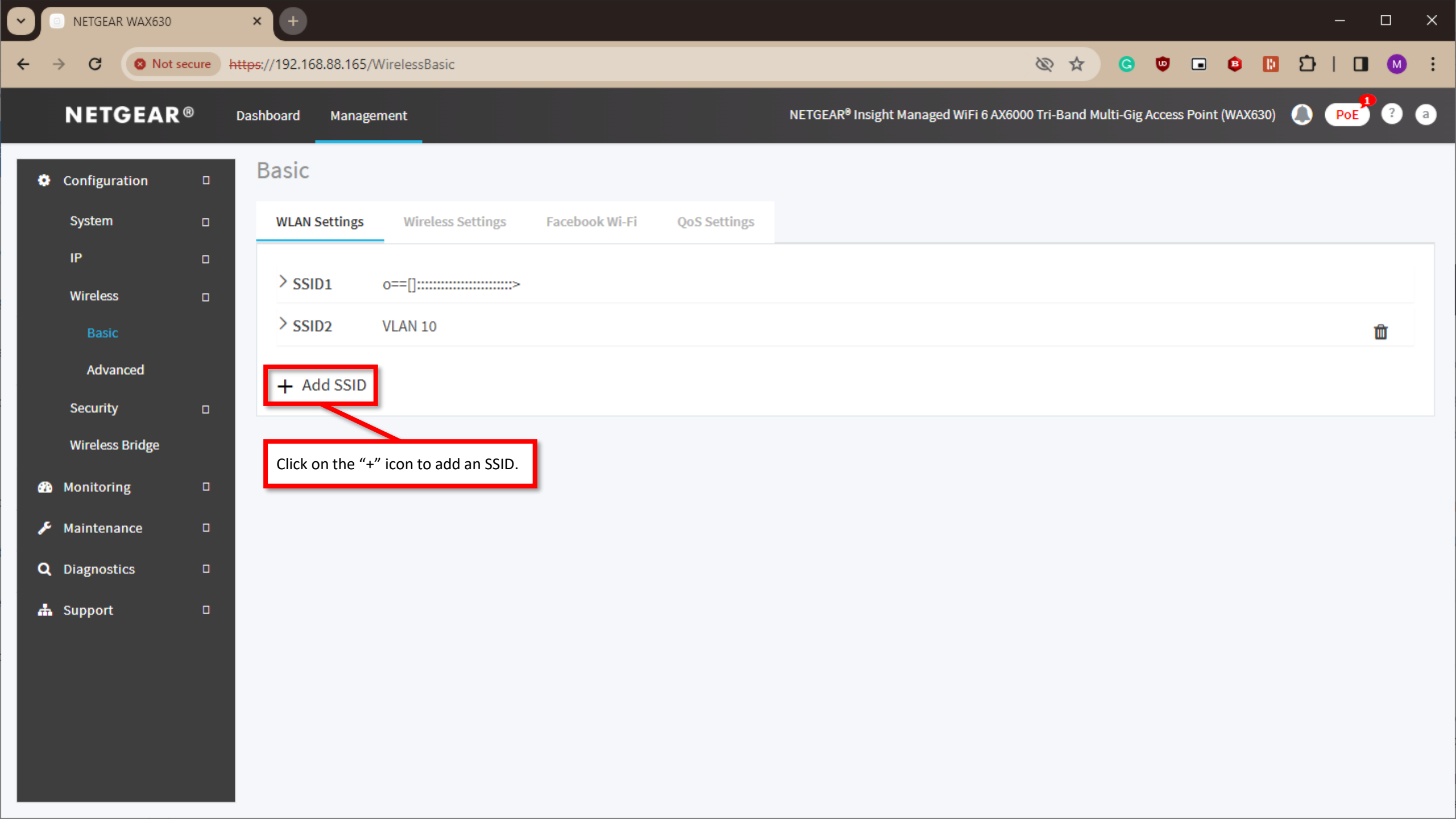
Management
NETGEAR® Insight Managed WiFi 6 AX6000 Tri-Band Multi-Gig Access Point (WAX630)
PoE
Configuration
System
IP
Wireless
Basic
Advanced
Security
Wireless Bridge
Monitoring
Maintenance
Diagnostics
Support
Basic
SSID2
Configure the SSID, Passphrase, and VLAN ID.
In this case our SSID will be VLAN 10, and the VLAN ID is 10.
Wireless Network Name (SSID)
NETGEAR-2
Broadcast SSID
Yes
No
VLAN ID
1
Authentication
WPA2 Personal
Passphrase
802.11w (PMF)
Mandatory
Optional
Disable
Schedule
Always ON
Always OFF
Custom
Band
2.4 GHz
5 GHz
Both
Band Steering / 802.11 k/v
Enable
Disable
Advanced
Advanced Rate Selection
Cancel
Apply


NETGEAR WAX630
Not secure
https://192.168.88.165/WirelessBasic
NETGEAR®
Dashboard
Management
NETGEAR® Insight Managed WiFi 6 AX6000 Tri-Band Multi-Gig Access Point (WAX630)
PoE
Configuration
System
IP
Wireless
Basic
Advanced
Security
Wireless Bridge
Monitoring
Maintenance
Diagnostics
Support
Basic
WLAN
SSID2
Wireless Network Name (SSID)
VLAN 10
Broadcast SSID
Yes
No
VLAN ID
10
Authentication
WPA2 Personal
Passphrase
802.11w (PMF)
Mandatory
Optional
Disable
Schedule
Always ON
Always OFF
Custom
Band
2.4 GHz
5 GHz
Both
Band Steering / 802.11 k/v
Enable
Disable
Advanced
Advanced Rate Selection
Cancel
Apply
Click on “Apply.”


NETGEAR WAX630
Not secure
https://192.168.88.165/WirelessBasic
NETGEAR®
Dashboard
Management
NETGEAR® Insight Managed WiFi 6 AX6000 Tri-Band Multi-Gig Access Point (WAX630)
PoE
Configuration
System
IP
Wireless
Basic
Advanced
Security
Wireless Bridge
Monitoring
Maintenance
Diagnostics
Support
Basic
WLAN Settings
Wireless Settings
Facebook Wi-Fi
QoS Settings
SSID1
SSID2
VLAN 10
Add SSID
The SSID Name has been added.
OK
It will take a moment for the SSID to be applied.
Wait for the pop-up letting you know that the SSID has been added and click on “OK.”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Support
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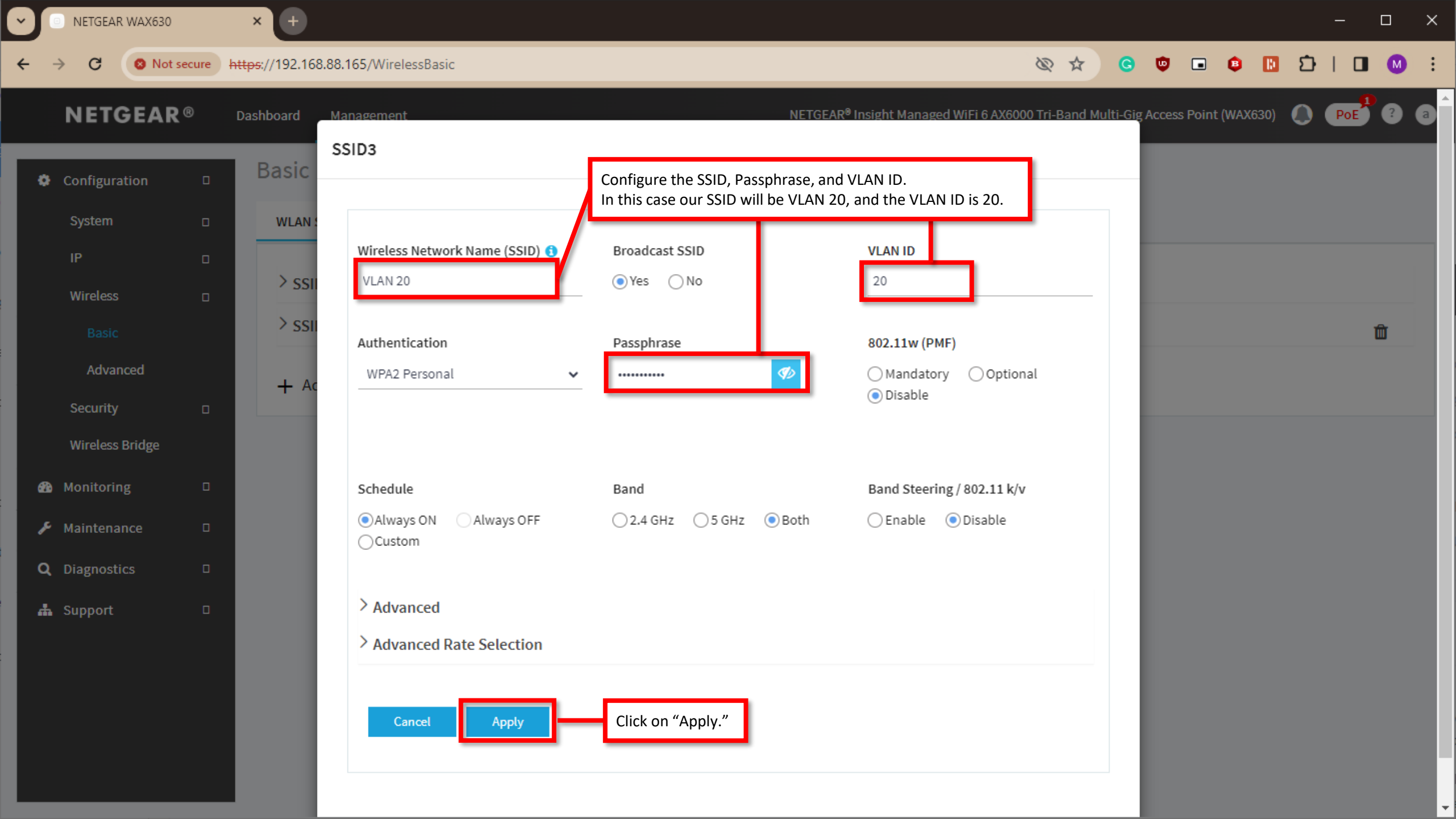
WLAN Settings
Wireless Settings
Facebook Wi-Fi
QoS Settings
SSID1
o==[]::::::::::::::::::::::::>
SSID2
VLAN 10
Add SSID
Click on the “+” icon to add an SSID.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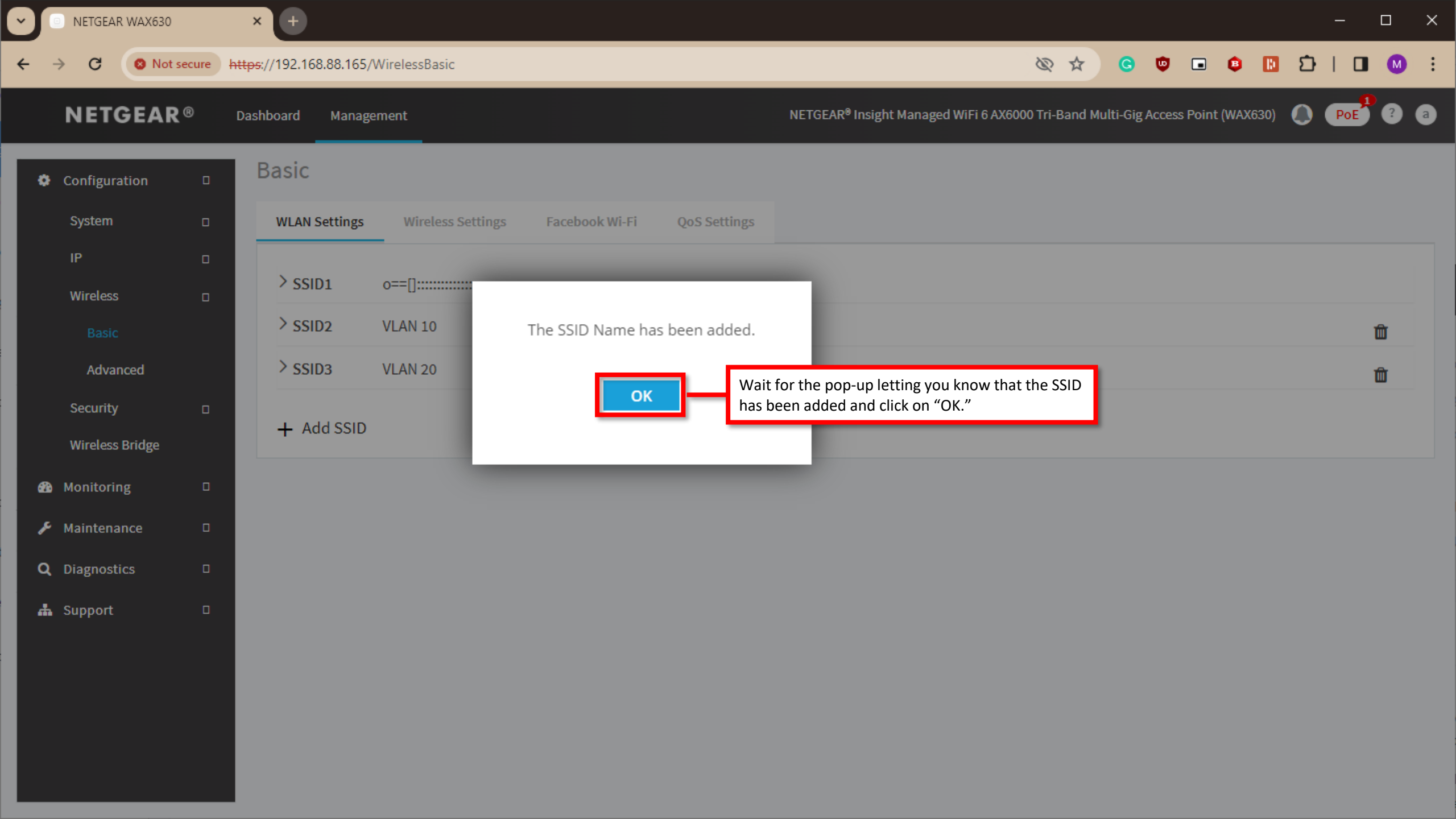
SSID3
Configure the SSID, Passphrase, and VLAN ID.
In this case our SSID will be VLAN 20, and the VLAN ID is 20.
Wireless Network Name (SSID)
VLAN 20
Broadcast SSID
Yes
No
VLAN ID
20
Authentication
WPA2 Personal
Passphrase
802.11w (PMF)
Mandatory
Optional
Disable
Schedule
Always ON
Always OFF
Custom
Band
2.4 GHz
5 GHz
Both
Band Steering / 802.11 k/v
Enable
Disable
Advanced
Advanced Rate Selection
Cancel
Apply
Click on “Apply.”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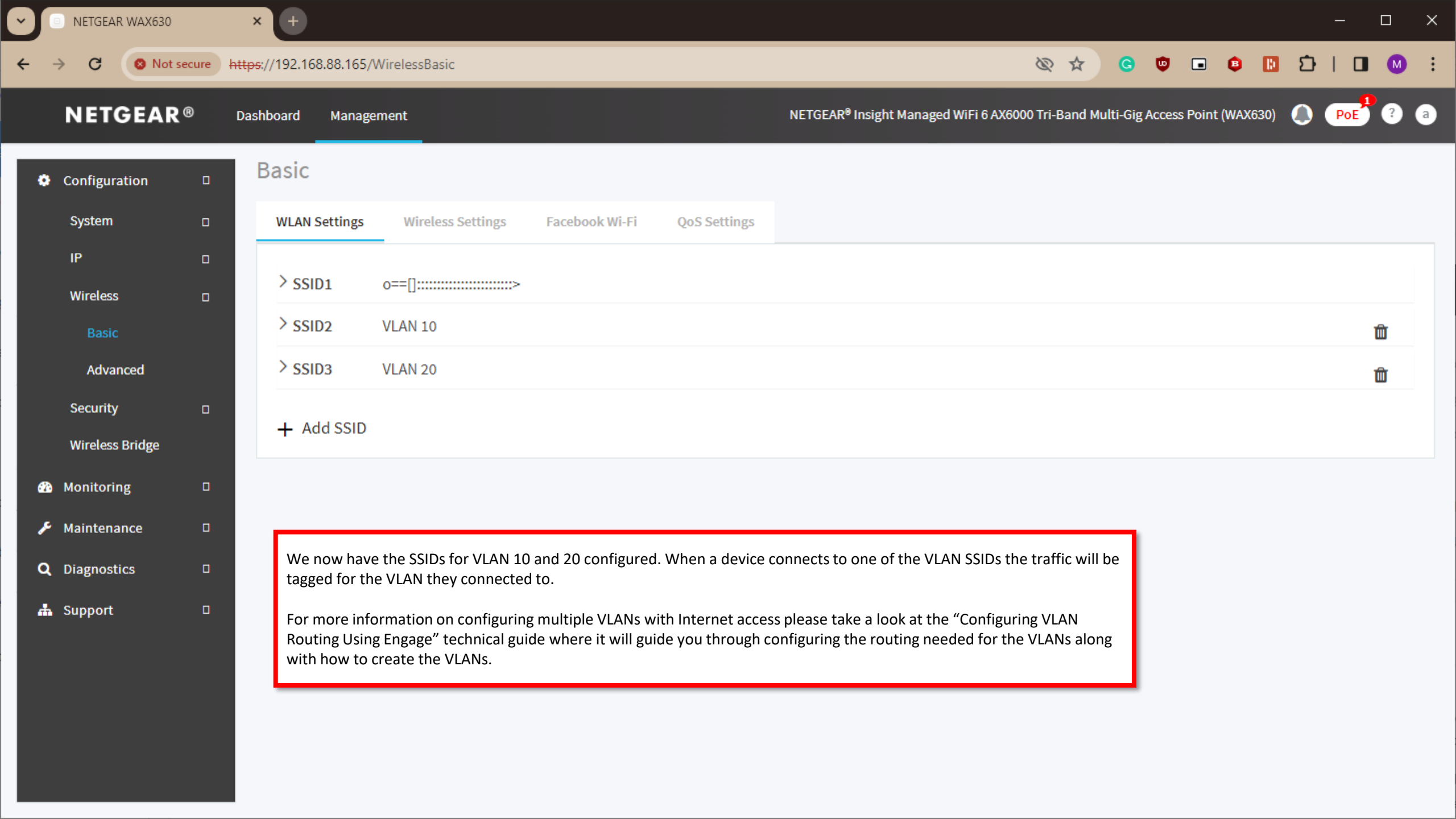
Diagnostics
Support
Basic
WLAN Settings
Wireless Settings
Facebook Wi-Fi
QoS Settings
SSID1
SSID2
VLAN 10
SSID3
VLAN 20
Add SSID
The SSID Name has been added.
OK
Wait for the pop-up letting you know that the SSID has been added and click on “OK.”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Wireless Settings
Facebook Wi-Fi
QoS Settings
SSID1 o==[]::::::::::::::::::::::::>
SSID2 VLAN 10
SSID3 VLAN 20
Add SSID
We now have the SSIDs for VLAN 10 and 20 configured. When a device connects to one of the VLAN SSIDs the traffic will be tagged for the VLAN they connected to.
For more information on configuring multiple VLANs with Internet access please take a look at the “Configuring VLAN Routing Using Engage” technical guide where it will guide you through configuring the routing needed for the VLANs along with how to create the VLANs.

End

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