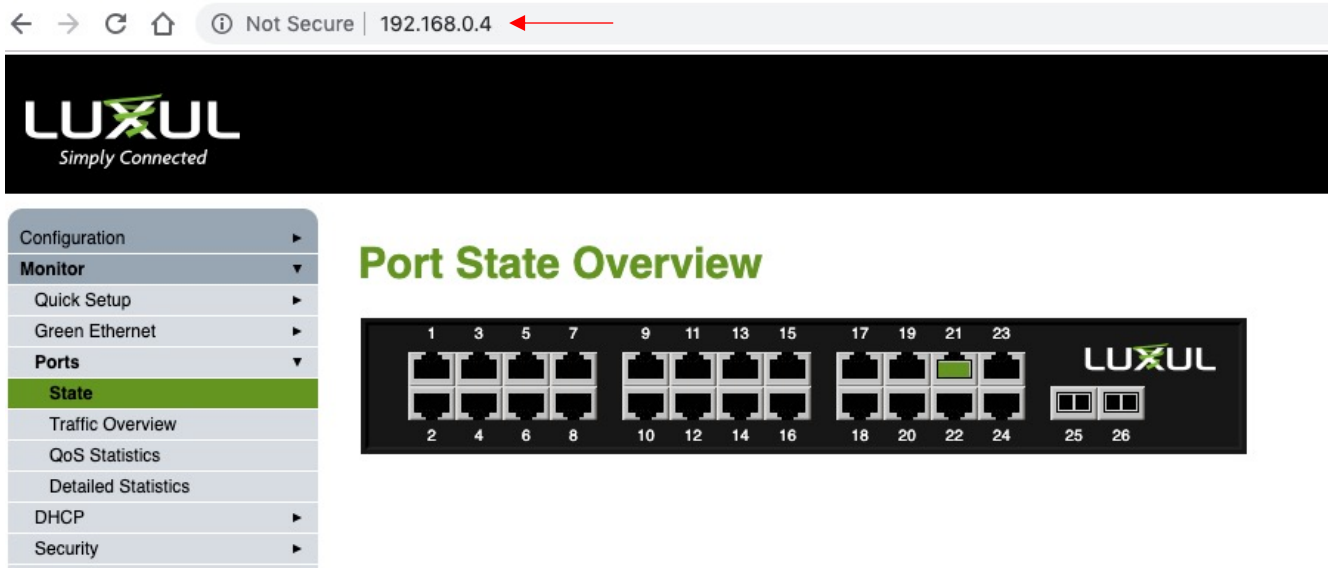
LUXUL™

# Managed Switch Configuration for Dante

# Login to switch

- Login to switch via web browser.
- If your network is not currently on a 192.168.0.x subnet, you may need to temporarily set your computer to a static IP subnet of 192.168.0.x  It is also recommended to change the IP address of the switch to match the subnet of your network.



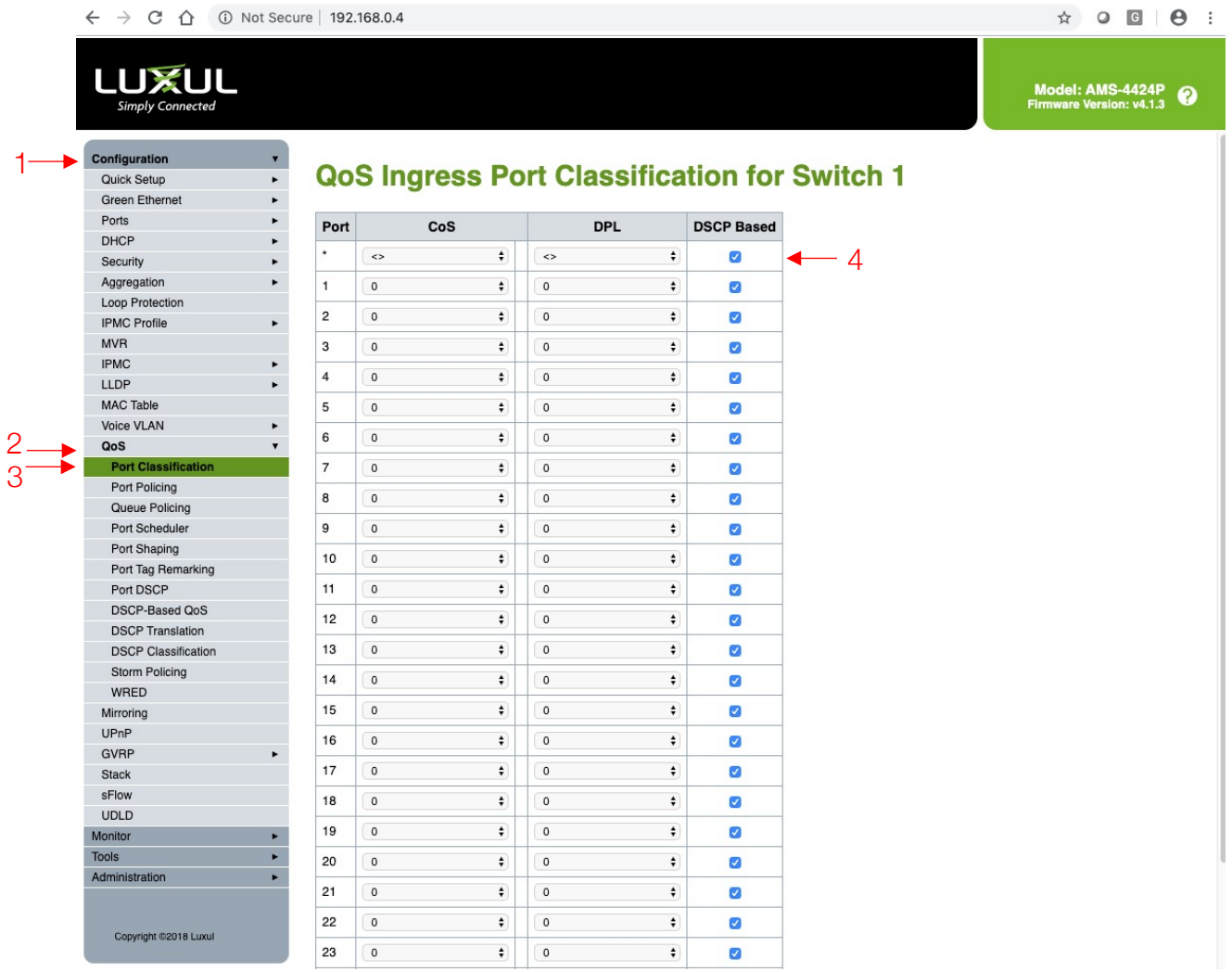

- Default IP address of the switches are:
- AMS-2600 = 192.168.0.2
- AMS/XMS-1208P = 192.168.0.3
- All other AMS/XMS models = 192.168.0.4
- SW-510/610 Series – DHCP by default

- Default username = admin
- Default password = admin*
  - Firmware will require a password change upon initial setup

# DSCP Based QoS Configuration

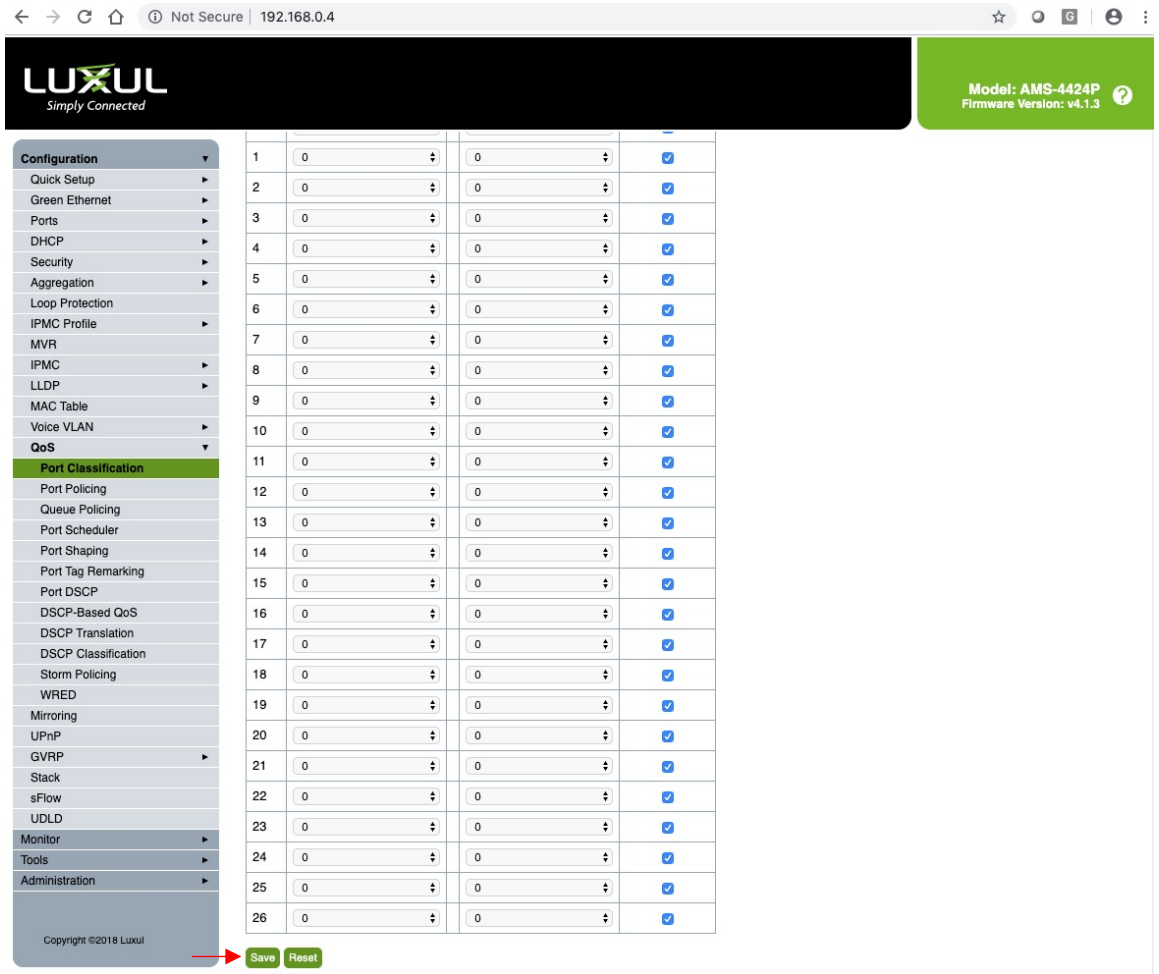
# DSCP QoS Settings

- Navigate to Configuration > QoS > Port Classification.
- Select DSCP Based option for all ports. Clicking the top row with the * globally selects all ports.



# Save DSCP Settings

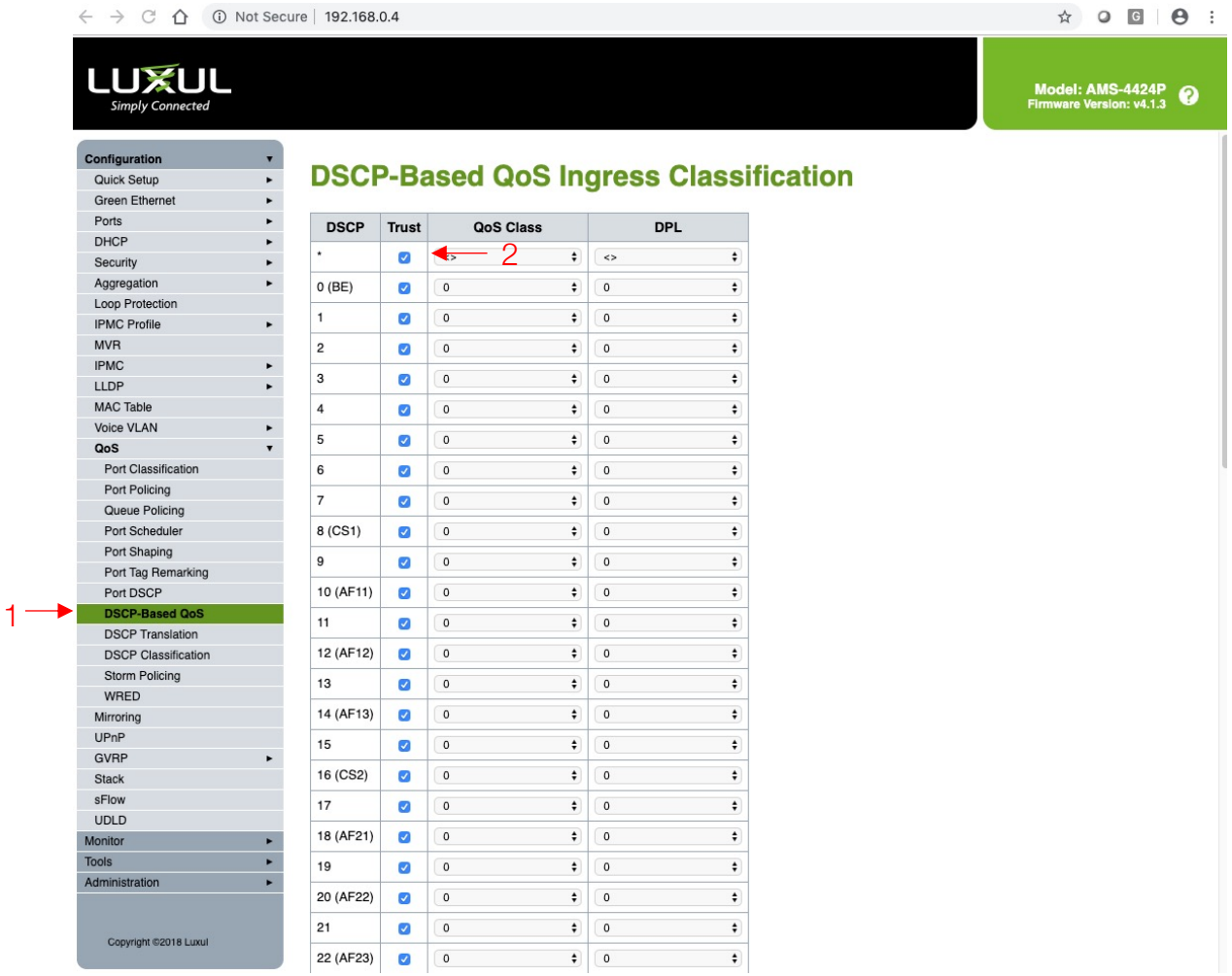
- Scroll to bottom of screen and click Save



# DSCP Based QoS

- In the same QoS menu section, navigate to DSCP-Based QoS

- Select Trust for all DSCP classes. It is also acceptable to select Trust only on the classes that are required for Dante. Those classes are specified on the next page.



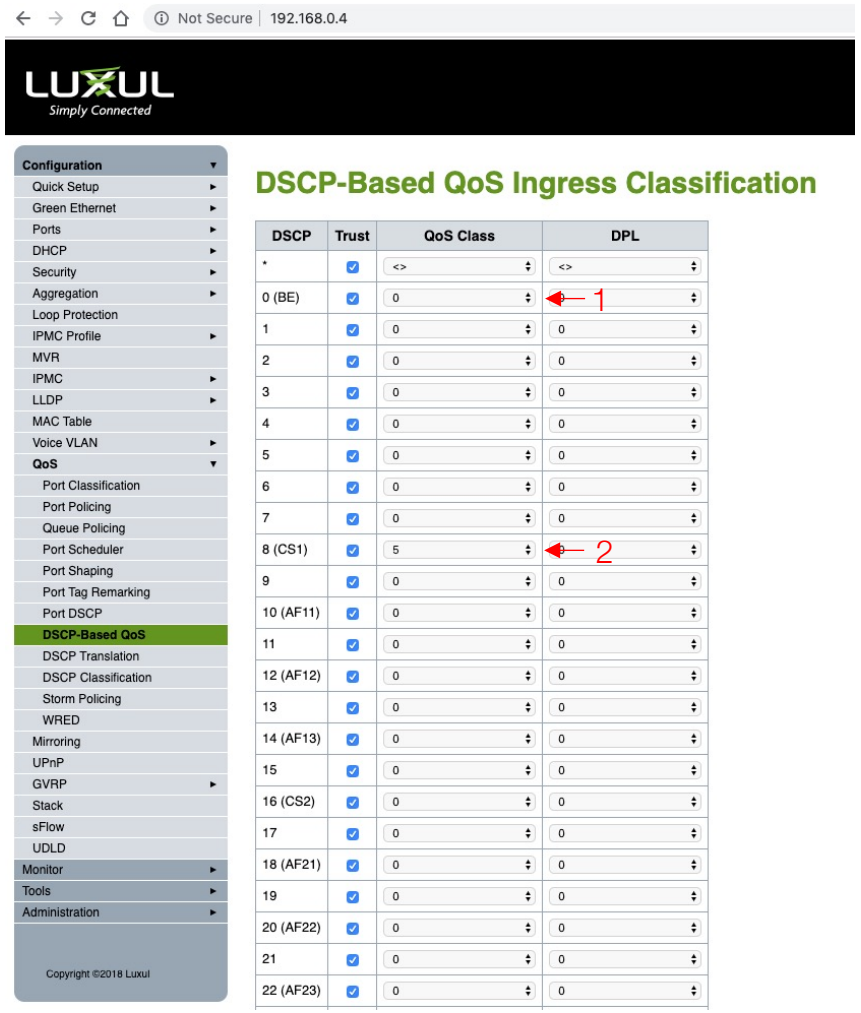
# Select QoS Class

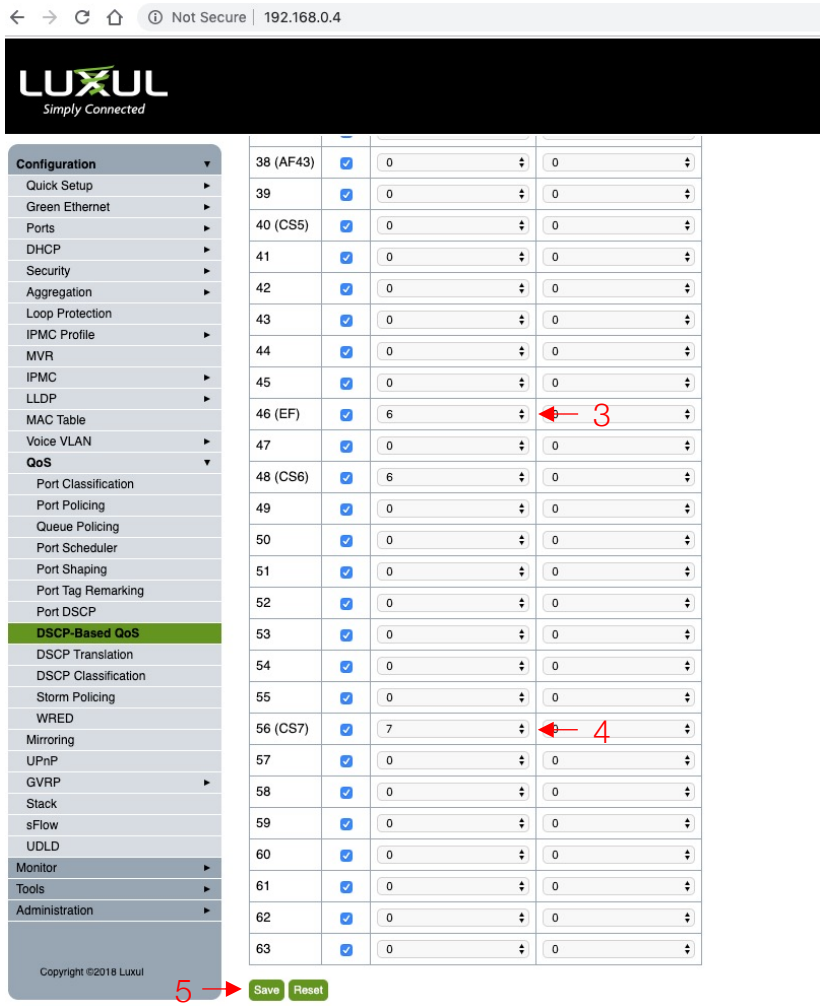
- Set Class 0 to priority 0
- Set Class 8 to priority 5
- Set Class 46 to priority 6
- Set Class 56 to priority 7
- Click Save at bottom of screen

| Priority | Usage | DSCP Label | Hex | Decimal | Binary |
|---|---|---|---|---|---|
| High | Time critical PTP events | CS7 | 0x38 | 56 | 111000 |
| Medium | Audio, PTP | EF | 0x2E | 46 | 101110 |
| Low | (reserved) | CS1 | 0x08 | 8 | 001000 |
| None | Other traffic | BestEffort | 0x00 | 0 | 000000 |

Class info can be found at https://www.audinate.com/faq/how-does-dante-use-dscp-diffserv-priority-values-when-configuring-qos

# Set QoS Class

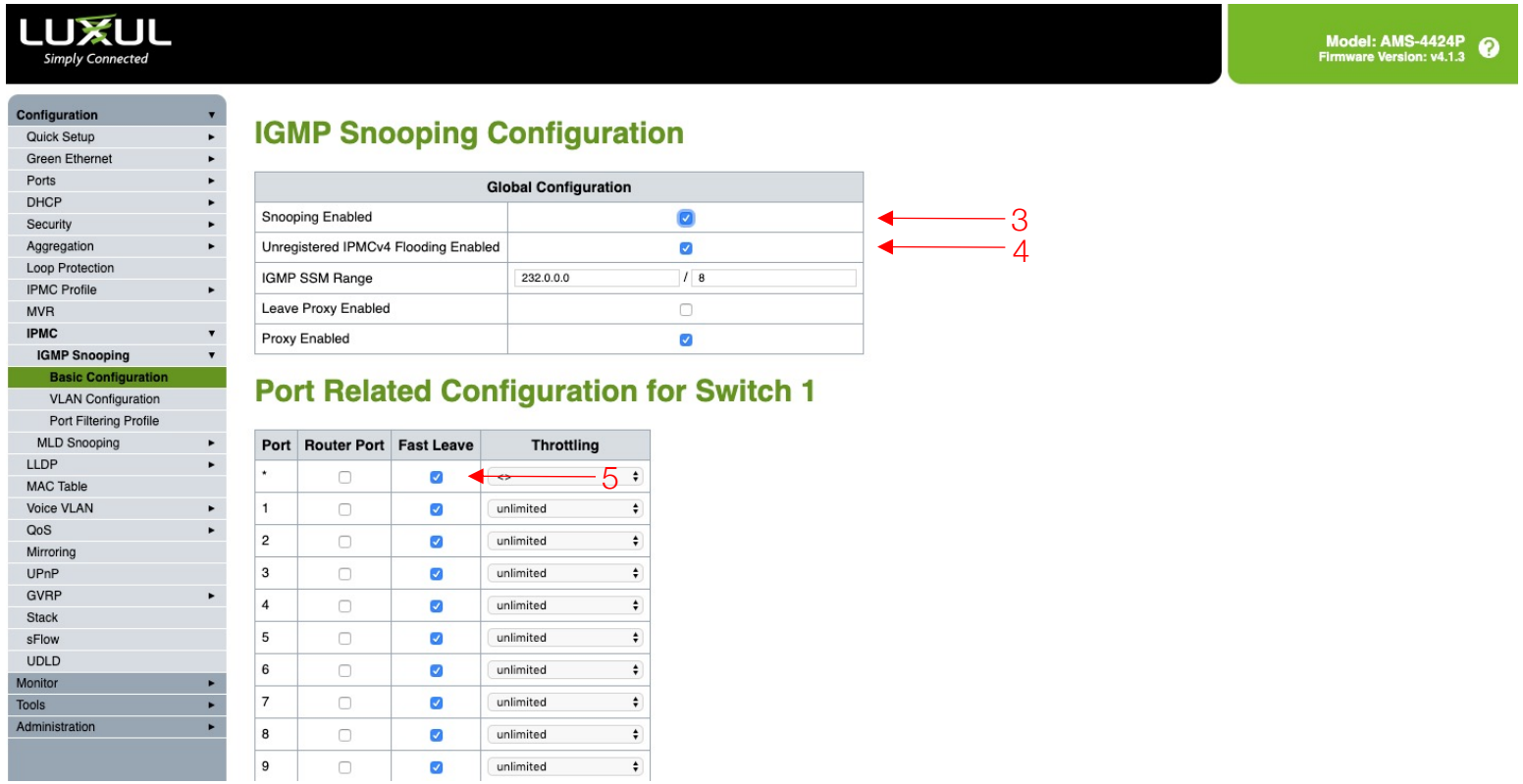


# IGMP Multicast Configuration

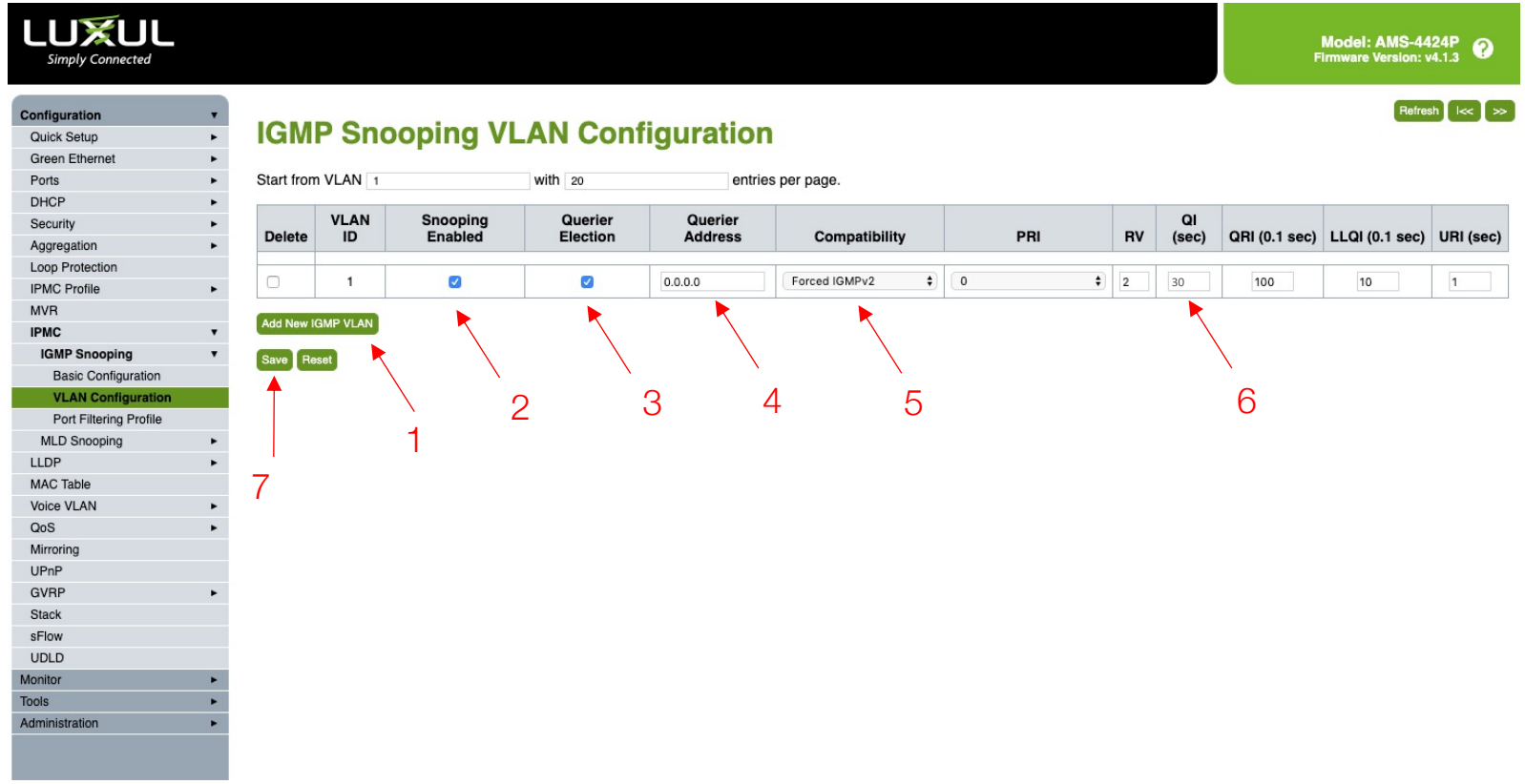
# IGMP Multicast Configuration

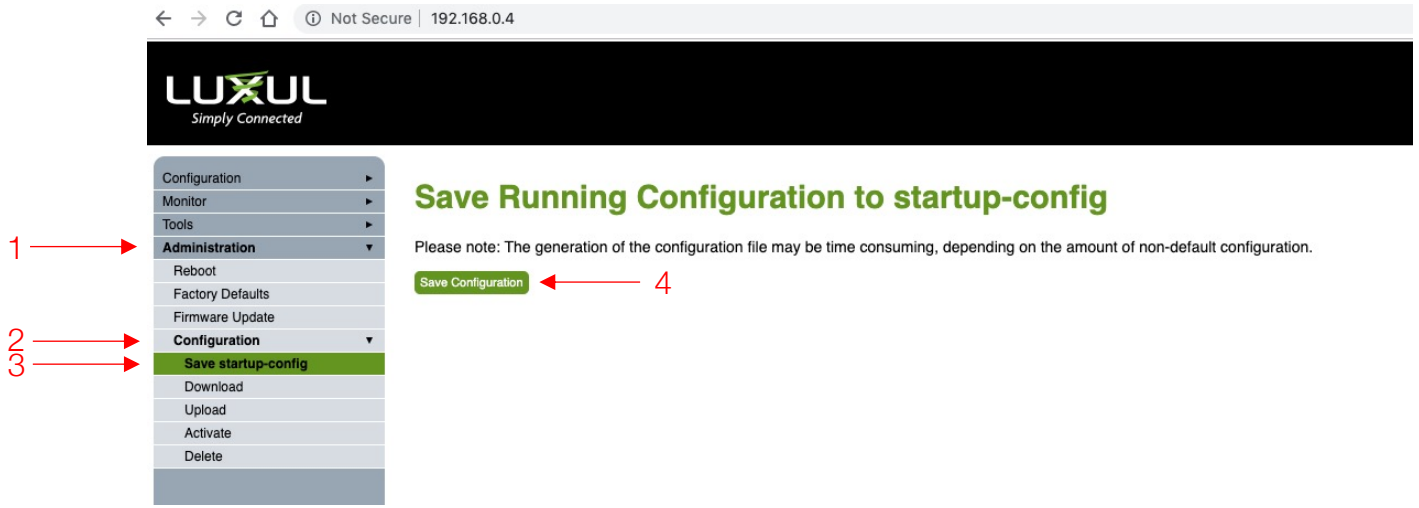
- Navigate to Configuration > IPMC > IGMP Snooping > Basic Configuration
- Check Snooping Enabled
- Check Unregistered IPMCv4 Flooding Enabled (it should be enabled already)
- Check Fast Leave on all ports
- Changing the setting on the top row with the * globally selects all ports
- Click Save at bottom of screen



# IGMP Multicast VLAN Configuration

- Navigate to Configuration > IPMC > IGMP Snooping > VLAN Configuration
- Click Add New IGMP VLAN if no VLAN table is created. Firmware 4.1.3 and higher will have already created the table for you
- Check Snooping Enabled
- Check Querier Election
- IP Address can be left at 0.0.0.0 or can be the IP address of the switch
- Set IP as IP address of the switch if using more than one switch in network
- Change Compatibility to Forced IGMPv2
- Set QI to 30 seconds
- Click Save



# Save Startup Config

- Navigate to Administration > Configuration > Save startup-config
- Click Save Configuration to make settings permanent in the switch