Configuration of GVRP on Cisco Business 220 Series Switches

Objective

This article explains how to enable and configure GARP VLAN registration protocol (GVRP) on the Cisco Business 220 Series Switches.

Introduction

GVRP allows devices to dynamically exchange VLAN configuration information to make configuration of VLANs easier. GVRP is based on the Generic Attribute Registration Protocol (GARP). When the switch receives VLAN information through GVRP and GVRP Registration, the receiving interface joins that VLAN. If an interface attempts to join a VLAN that does not exist and Dynamic VLAN creation is enabled, the switch automatically creates the VLAN.

GVRP must be activated globally and on each port. When it’s activated, it transmits and receives GARP Packet Data Units (GPDUs). VLANs that are defined but not active aren’t propagated. To propagate the VLAN, it must be up on at least one port. By default, GVRP is disabled globally and on ports.

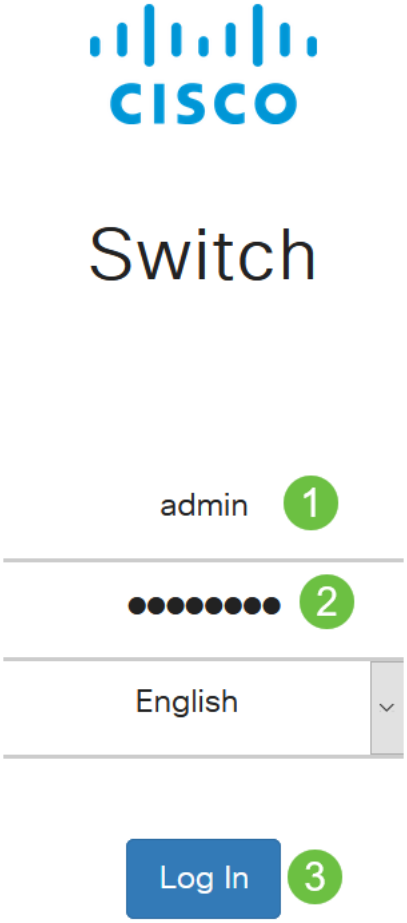
Applicable Devices | Software Version

- CBS220 series **(Data Sheet)** | 2.0.0.17

GVRP Settings

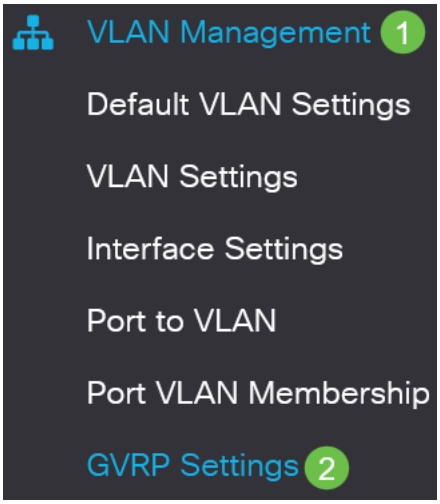
Step 1

Log in to the web user interface (UI) of CBS220 switch.



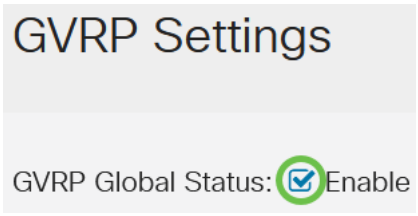
Step 2

Choose **VLAN Management > GVRP Settings**.



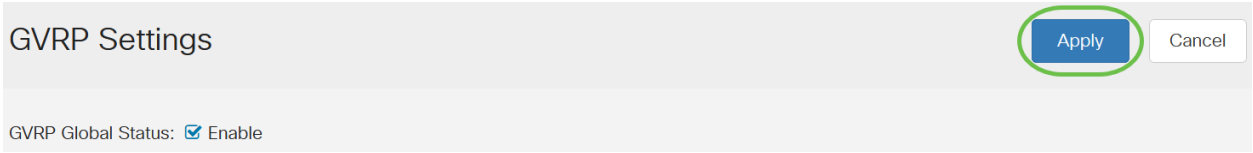
Step 3

Check the **GVRP Global Status** check box to globally enable GVRP on the switch.



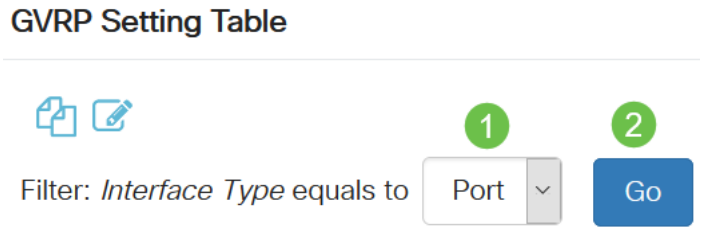
Step 4

Click **Apply** to set the global GVRP status.



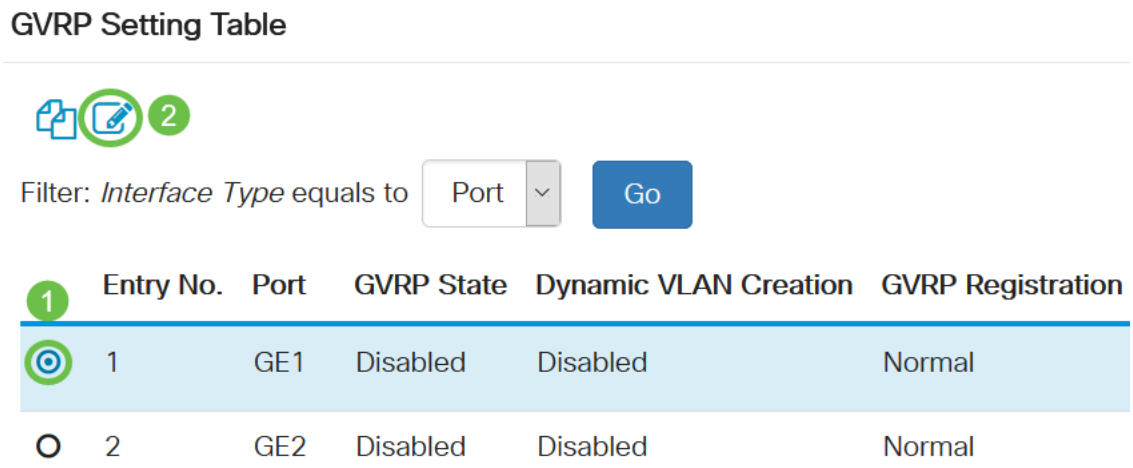
Step 5

Choose either *Port* or *LAG* from the *Filter: Interface Type equals to* drop-down list. Click **Go** to display the settings for the chosen interface type.



Step 6

Click the radio button to select the interface on which you would like to configure GVRP and click **Edit**.



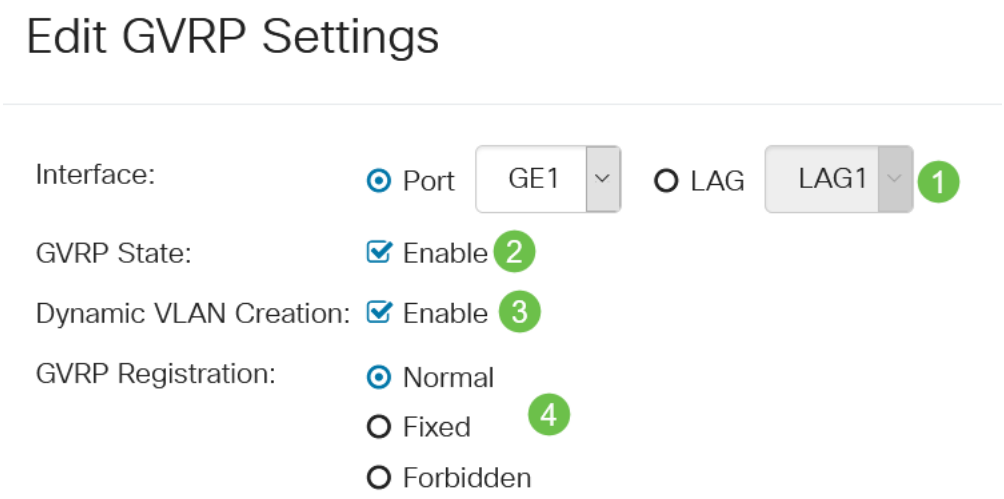
Step 7

Configure the following fields:

- *Interface* - Select the interface (Port or LAG) to be edited. Ports must be configured in General or Trunk mode to support GVRP.
- *GVRP State* - Select to enable GVRP on this interface.
- *Dynamic VLAN Creation* - Check the **Enable** check box in the *Dynamic VLAN Creation* field to have a VLAN dynamically created if it does not exist when GVRP information is

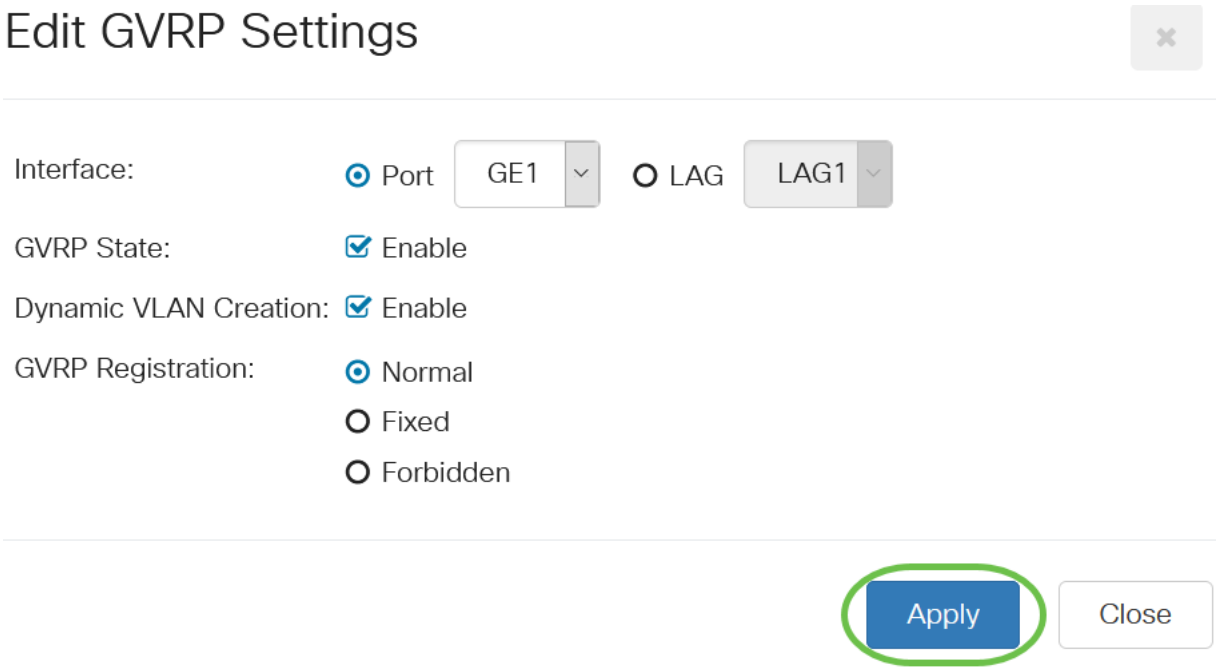
received for that VLAN on the selected interface. If Dynamic VLAN Creation is disabled, the switch only recognizes VLANs that have been manually created.

- *GVRP Registration* - Check the **Enable** check box in the *GVRP Registration* field to have the selected interface join a VLAN when GVRP information is received for that VLAN on the selected interface. If GVRP registration is disabled, an interface only associates with a VLAN that it is manually configured to be on.



Step 8

Click **Apply** to save the updated GVRP settings for the selected interface.



Conclusion

You did it! You have successfully configured GVRP on your CBS220 switch.

For more configurations, refer to the **Cisco Business 220 Series Switches Administration Guide**.