Techroutes

Test Report TR S2510PoE-DC
Firmware Version build 71585

Contents

1. Introduction

This document is known for problems and solutions for TECHROUTES TR S2510PoE-DC Series switch.

2. About This Test Report

This Test Report provides information for

A. To check support of DHCP Snooping

Present software version- Version 2.2.0C Build 71585;
Present hardware version- V1.0;

3. Test Report

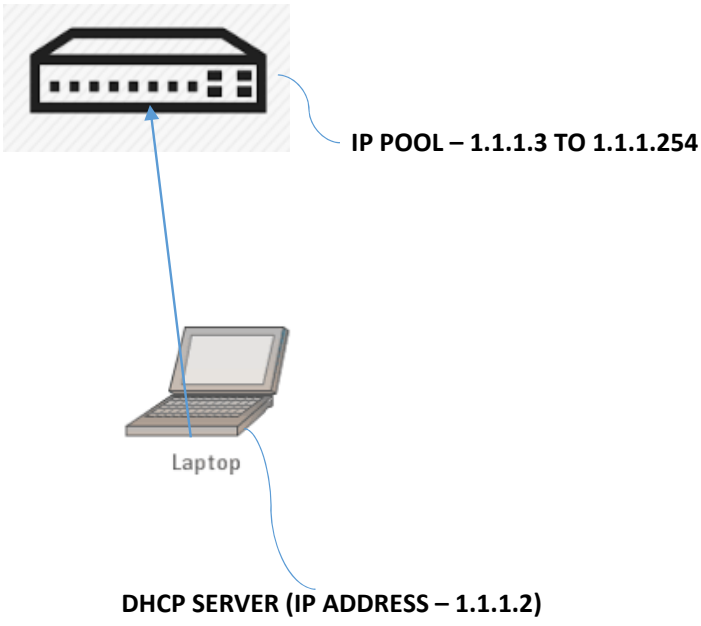
A. RJIL-IP-QA-DS-SYS-050

1. Test Objective: To check support of DHCP Snooping

2. Test Set up : Switch , Laptop

IP NETWORK – 1.1.1.0 255.255.255.0

DHCP CLIENT TR 2510



3. Switch Configuration :

interface VLAN1

ip address dhcp

!

vlan 1,890

ip dhcp-relay snooping

ip dhcp-relay snooping vlan 1

!

4. Procedure:

Connect the DHCP server to the switch

5. Test Result :

1. When we apply " no dhcp snooping deny " on port Gi 0/4 of switch connected to DHCP server

Result:

Switch_config#int g0/4

Switch_config_g0/4#no dhcp snooping deny

Switch_config_g0/4#

Switch_config_g0/4#int v 1

Switch_config_v1#shu

Switch_config_v1#Jan 1 00:35:43 %LINE-5-UPDOWN: Line on Interface VLAN1, changed state to down

Jan 1 00:35:43 %LINEPROTO-5-UPDOWN: Line protocol on Interface VLAN1, changed state to down

Switch_config_v1#

Switch_config_v1#no shut

Switch_config_v1#Jan 1 00:35:45 %LINE-5-UPDOWN: Line on Interface VLAN1, changed state to up

Jan 1 00:35:45 %LINEPROTO-5-UPDOWN: Line protocol on Interface VLAN1, changed state to up

Jan 1 00:35:45 DHCP: Start dhcp process...

Jan 1 00:35:45 DHCP: Move to INIT state, xid: 0x452C1FF7

Jan 1 00:35:45 DHCP: SDISCOVER attempt # 1, sending 280 byte DHCP packet

Jan 1 00:35:45 DHCP: B'cast on VLAN1 interface from 0.0.0.0

Jan 1 00:35:45 DHCP: Move to SELECTING state, xid: 0x452C1FF7

Jan 1 00:35:48 DHCP: Received DHCPOFFER pkt from 1.1.1.2, xid: 0x452C1FF7

Jan 1 00:35:48 DHCP: SREQUEST - Requested IP addr option: 1.1.1.3

Jan 1 00:35:48 DHCP: SREQUEST - Server ID option: 1.1.1.2

Jan 1 00:35:48 DHCP: SREQUEST attempt # 1, sending 292 byte DHCP packet

Jan 1 00:35:48 DHCP: B'cast on VLAN1 interface from 0.0.0.0

Jan 1 00:35:48 DHCP: Move to REQUESTING state, xid: 0x452C1FF7

Jan 1 00:35:54 DHCP: restart dhcp request!

Jan 1 00:35:54 DHCP: Move to INIT state, xid: 0x452C1FF7

Jan 1 00:35:54 DHCP: SDISCOVER attempt # 1, sending 280 byte DHCP packet

Jan 1 00:35:54 DHCP: B'cast on VLAN1 interface from 0.0.0.0

Jan 1 00:35:57 DHCP: Received DHCPOFFER pkt from 1.1.1.2, xid: 0x452C1FF7

Jan 1 00:35:57 DHCP: SREQUEST - Requested IP addr option: 1.1.1.3

Jan 1 00:35:57 DHCP: SREQUEST - Server ID option: 1.1.1.2

Jan 1 00:35:57 DHCP: SREQUEST attempt # 1, sending 292 byte DHCP packet

Jan 1 00:35:57 DHCP: B'cast on VLAN1 interface from 0.0.0.0

Jan 1 00:35:57 DHCP: Move to REQUESTING state, xid: 0x452C1FF7

Jan 1 00:36:01 DHCP: SREQUEST attempt # 2, sending 292 byte DHCP packet

Jan 1 00:36:01 DHCP: B'cast on VLAN1 interface from 0.0.0.0

Switch_config_v1#show ip int Jan 1 00:36:09 DHCP: SREQUEST attempt # 3, sending 292 byte DHCP packet

Jan 1 00:36:09 DHCP: B'cast on VLAN1 interface from 0.0.0.0

Brief

Here the IP is not assigned by the DHCP server to interface VLAN 1

Switch_config_v1#show ip interface brief

Interface	IP-Address	Method	Protocol-Status
VLAN1	unassigned	dhcp	up

2. When we apply " dhcp snooping deny " on port Gi 0/4 of switch connected to DHCP server

Result:

Switch_config_v1#interface g0/4

Switch_config_g0/4#dhcp snooping deny

Switch_config_g0/4#

Switch_config_g0/4#

Switch_config_g0/4#exi

Switch_config#

Switch_config#interface v 1

Switch_config_v1#

Switch_config_v1#

Switch_config_v1#shu

Switch_config_v1#Jan 1 00:36:52 %LINE-5-UPDOWN: Line on Interface VLAN1, changed state to down

Jan 1 00:36:52 %LINEPROTO-5-UPDOWN: Line protocol on Interface VLAN1, changed state to down

Switch_config_v1#

Switch_config_v1#no shut

Switch_config_v1#Jan 1 00:36:55 %LINE-5-UPDOWN: Line on Interface VLAN1, changed state to up

Jan 1 00:36:55 %LINEPROTO-5-UPDOWN: Line protocol on Interface VLAN1, changed state to up

Jan 1 00:36:55 DHCP: Start dhcp process...

Jan 1 00:36:55 DHCP: Move to INIT state, xid: 0x3D6A1FF7

Jan 1 00:36:55 DHCP: SDISCOVER attempt # 1, sending 280 byte DHCP packet

Jan 1 00:36:55 DHCP: B'cast on VLAN1 interface from 0.0.0.0

Jan 1 00:36:55 DHCP: Move to SELECTING state, xid: 0x3D6A1FF7

Jan 1 00:36:59 DHCP: restart dhcp request!

Jan 1 00:36:59 DHCP: Move to INIT state, xid: 0x3D6A1FF7

Jan 1 00:36:59 DHCP: SDISCOVER attempt # 1, sending 280 byte DHCP packet

Jan 1 00:36:59 DHCP: B'cast on VLAN1 interface from 0.0.0.0

Jan 1 00:36:59 DHCP: Received DHCPOFFER pkt from 1.1.1.2, xid: 0x3D6A1FF7

Jan 1 00:36:59 DHCP: SREQUEST - Requested IP addr option: 1.1.1.3

Jan 1 00:36:59 DHCP: SREQUEST - Server ID option: 1.1.1.2

Jan 1 00:36:59 DHCP: SREQUEST attempt # 1, sending 292 byte DHCP packet

Jan 1 00:36:59 DHCP: B'cast on VLAN1 interface from 0.0.0.0

Jan 1 00:36:59 DHCP: Move to REQUESTING state, xid: 0x3D6A1FF7

Jan 1 00:37:02 DHCP: Received DHCPOFFER pkt from 1.1.1.2, xid: 0x3D6A1FF7

Jan 1 00:37:02 DHCP: Received DHCPACK pkt from 1.1.1.2, xid: 0x3D6A1FF7

Jan 1 00:37:02 DHCP: Deleted former route to 1.1.1.1

Jan 1 00:37:02 DHCP: Allocated IP address = 1.1.1.3

Jan 1 00:37:02 DHCP: subnetmask = 255.255.255.0

Jan 1 00:37:02 DHCP: Add default route to gateway 1.1.1.1

Jan 1 00:37:02 DHCP: Set address check.

Jan 1 00:37:02 DHCP: Move to BOUND state, xid: 0x3D6A1FF7

Here the IP is assigned by the DHCP server to interface VLAN 1

Switch_config_v1#show ip int brief

Interface	IP-Address	Method	Protocol-Status
VLAN1	1.1.1.3	dhcp	up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