

Advanced Troubleshooting CCIE Routing & Switching v5.0

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Switching-I **Questions**

Troubleshooting Switching

Scenario 1

Lab Setup:

To copy and paste the initial configurations, go to “CCIE-TS-Initial-configurations” folder → “Switching” → “TS-Switching-Initial-Lab-1”.

Lab Rules:

- DO NOT remove any command/s unless otherwise stated
- DO NOT change the VLAN assignment, or delete and recreate a VLAN.
- You must be VERY specific when resolving these tasks

Ticket 1

R1 and R2 can NOT establish an OSPF session. OSPF is configured on the F0/0 and the loopback 0 interfaces of these two routers.

Ticket 2

R3 and R4 can NOT Ping each other. These two routers are in VLAN 34, R3 is connected to SW1 and R4 is connected to SW2, the F0/19 interfaces of these two switches are configured as a trunk link. Do not remove any command, configure another trunk or change the VLAN assignment to fix this problem.

Ticket 3

R5 and R6 can't establish an Eigrp adjacency. Eigrp AS 100 is configured on the F0/0 of R5 and the F0/1 interface of R6; R5 is advertising networks 5.5.5.0/24 and R6 is advertising 6.6.6.0/24. You must be very specific, do not remove any command to fix this problem.

Ticket 4

R7 can NOT ping R8's G0/1.21 interface.

Ticket 5

R9 can NOT ping R7's G0/1 interface

Ticket 6

The Etherchannel between SW2 and SW3 is NOT coming up.

Ticket 7

R8 can NOT ping R5's F0/1 interface.

Ticket 8

You must “Shut” and “No Shut” the F0/19 interface of SW3 and SW4 before proceeding, when shutting the f0/19 interface down, you must wait for the interface to transition into down state before issuing the “No Shut” command.



The client keeps on getting the following console messages on SW3:

```
%UDLD-4-UDLD_PORT_DISABLED: UDLD disabled interface Fa0/19, unidirectional link detected
%PM-4-ERR_DISABLE: udd error detected on Fa0/19, putting Fa0/19 in err-disable state
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/19, changed state to down
%LINK-3-UPDOWN: Interface FastEthernet0/19, changed state to down
```

```
%PM-4-ERR_RECOVER: Attempting to recover from udd err-disable state on Fa0/19
```

```
%LINK-3-UPDOWN: Interface FastEthernet0/19, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/19, changed state to up
```

You may break one of the rules in this lab’s rules stated in the beginning of this lab.

Ticket 9

Erase the startup configuration and the “vlan.dat” and reload the devices before proceeding to the next scenario.