CCIE Routing & Switching Advanced Troubleshooting Bootcamp

Lab 1
Layer 2 – IGPs – Redistribution

Lab 1

Note: Before beginning these troubleshooting tasks, be sure to load the initial configurations (RS.ADV.TROUBLE.LAB1) from the Load Product Config area of Control Panel in the Member's Site.

Lab Do's and Don'ts
- Use only the diagram provided to solve this lab.
- There are no errors in the diagram provided.
- Do not write on any lab documents provided.
- Do not add any additional IP address space unless explicitly instructed.

Trouble Ticket 1 – Users behind R4 report they cannot reach RIP prefixes sent into your domain from BB3.

Trouble Ticket 2 – Your Junior Admin has reported that he cannot properly configure the trunk link(s) between SW1 and SW4. Confirm proper configuration.

Trouble Ticket 3 – Users in VLAN 101 report they cannot reach destinations beyond SW3.

Trouble Ticket 4 – Your Junior Admin has reported that SW3 is not dynamically receiving VLANs created on SW1.

Trouble Ticket 5 – Ensure SW4 is the root of the Spanning Tree for all possible VLANs. Do not set the priority directly. Also, configure a mechanism that protects all trunk links of SW4 from superior BPDUs.

Trouble Ticket 6 – Ensure DTP is not used throughout the entire Layer 2 infrastructure.

Trouble Ticket 7 – There are issues preventing users behind R5 from communicating with users behind R4 using the Frame Relay cloud.

Trouble Ticket 8 – Users behind R4 cannot access prefixes behind R5.

Trouble Ticket 9 – Repair any errors in the Frame Relay cloud between R1, R2, and R3. Use the pre-configured interfaces.

Trouble Ticket 10 – Ensure OSPF adjacencies are established between R3 and R2, and R2 and R1 using the preconfigured OSPF processes.

Trouble Ticket 11 – Examine the OSPF configuration of SW2. Ensure it is able to receive prefixes from the entire OSPF domain without changing any preconfigured area types. You may add additional address space.

Trouble Ticket 12 – Redistribution of EIGRP into OSPF is being performed on R3. Ensure OSPF speakers consider local domain link costs to reach these external prefixes. Confirm full reachability to all advertised prefixes in the IGP domains. You may configure additional redistribution if required.