

EE4014 Activities on Packet Analysis - VLANs

A. ICMP_across_dot1q.cap

1. Use Wireshark to open the trace file "ICMP_across_dot1q.cap".
2. There are two protocols found in this trace: ARP & ICMP. What are these protocols used for?
3. In frame #3, IP address _____ is finding the _____ address of IP address _____. The result of finding is given in frame # _____, which is: _____.
4. In frame #6, IP address _____ is finding the _____ address of IP address _____. The result of finding is given in frame # _____, which is: _____.
5. This trace was captured on a (trunk / access) link. How do you know?
6. The two computers connect to vlan no. _____.

B. rpvstp-trunk-native-vid1.pcap

1. Use Wireshark to open the trace file "rpvstp-trunk-native-vid1.pcap".
2. In this trace, the frames sent from (1/2/3) device(s) are captured.
3. The possible port mode(s) of the device sending out DTP messages is/are (Dynamic Auto/Dynamic Desirable/Trunk/Access/Nonegotiate).
4. In this trace, frames sending on (1/2/3/4) vlan(s) are captured. The plan number(s) is/are: _____, and the native vlan is _____.
5. A VTP message was captured in frame # _____. If this message is received by a switch having a VTP mode of Client, a VTP revision of 3, and belonging to VTP domain "cisco", that switch (will/will not) synchronise its VTP information with this VTP message. Why?
6. If this VTP message is received by a switch having a VTP mode of Client, a VTP revision of 1, and belonging to VTP domain "CityU", that switch (will/will not) synchronise its VTP information with this VTP message. Why?

C. rpvstp-trunk-native-vid5.pcap

1. Use Wireshark to open the trace file "rpvstp-trunk-native-vid5.pcap".
2. In this trace, the frames sent from (1/2/3) device(s) are captured.
3. The possible port mode(s) of the device sending out DTP messages is/are (Dynamic Auto/Dynamic Desirable/Trunk/Access/Nonegotiate).
4. In this trace, frames sending on (1/2/3/4) vlan(s) are captured. The plan number(s) is/are: _____, and the native vlan is _____.
5. A VTP message was captured in frame # _____. If this message is received by a switch having a VTP mode of Client, a VTP revision of 3, and belonging to VTP domain "cisco", that switch (will/will not) synchronise its VTP information with this VTP message. Why?
6. If this VTP message is received by a switch having a VTP mode of Client, a VTP revision of 1, and belonging to VTP domain "CityU", that switch (will/will not) synchronise its VTP information with this VTP message. Why?