NetLab 4

1. What differences do you notice in Layer 2 of each capture?
   1. The differences that I noticed was that there is only a ppp between 2 routers, that only between a vlan and a switch is there an 802.3, and an 802.3 + 802.1q between the router and switch.
2. What is the L2 header overhead in the packets captured in the WAN 1 link?
   1. ppp 4 bytes
3. What is the L2 header overhead in the packets captured in the R1-ESW1 link?
   1. Eth + 802.1q 18 bytes
4. What is the L2 header overhead in the packets captured in the VPC link?
   1. Eth 14 bytes
5. Is the traffic tagged in the WAN1 link? Is traffic tagged in R1-ESW1 link? Is traffic tagged in the VPC link? For every capture, explain why traffic is or is not tagged.
   1. No because it doesn’t follow the 802.3 standard, yes because vlan tagging is required for 802.1q, and no because vlan tagging is not required.
6. What is the Total frame size?
   1. The frame goes from 88 to 552 bytes when the -l 2000 is added
7. Does the frame size make sense? Explain what is happening after applying the switches “-c 1 -l 2000” at the end of the ping command
8. What are the protocols identified by Wireshark when the -l switch is applied?
   1. IPv4 and ICMP