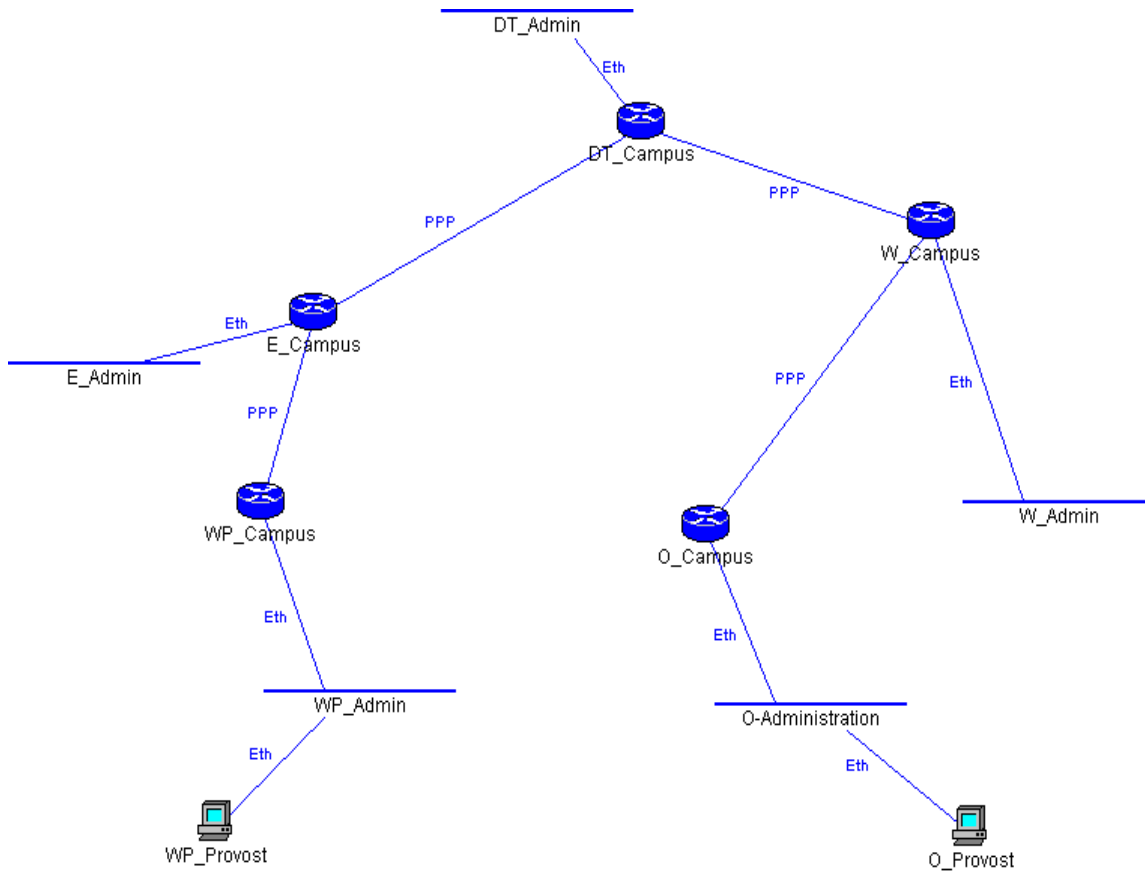


Network+ TCP/IP Planning and Design Project



In this project assume the role of the Network Administrator for Valencia Community College. Your organization has been assigned a class C address of 222.133.175.0. You have been assigned the task of planning your logical addresses (TCP/IP planning) to connect your network as shown in the above diagram.


1. How many subnets must be created to connect the college network?
2. How many bits did you need to borrow from the host section?
3. What is your subnet mask after Subnetting, and is it different from the default subnet mask?
4. List all the subnets you created using the following format:

Subnet Address	First Usable Address	Last Usable Address	Subnet Broadcast Address

5. Suppose you decided to use subnet number 8 to connect the administration at the O_Campus, and to use subnet number 9 to connect the administration at the WP_Campus, What would be a valid TCP/IP configuration for the provost's machine on each campus.
6. Use Packet Tracer to draw a diagram of the network and to assign address for devices on your network (routers, PCs, etc....)
7. Using Packet tracer explain how a signal sent by the O_Provost will be received by the WP_Provost. Explain how each device (routers, switches) handles the signal, and what type of information (tables) each device use to make routing, switching and forwarding decisions.

 **Project Due Date:** Two Weeks Before The Final Exam.

 The project is to be completed on an **individual basis**.

 **Turn on your project on a 3.5' floppy** with your name on it. Use Microsoft Word to type your answers and to tabulate your IP subnets. Use Packet Tracer to draw the diagram.