Powerful Protocols

Objective

A review of EIGRP and OSPF routing protocol configuration and verification commands.

Scenario

At the end of this course, you are asked to complete two Capstone Projects where you will create, configure, and verify two network topologies using the two main routing protocols taught in this course, EIGRP and OSPF.

To make things easier, you decide to create a chart of configuration and verification commands to use for these two design projects. To help devise the protocol charts, ask another student in the class to help you.

Refer to the PDF for this chapter for directions on how to create a design for this modeling project. When complete, share your work with another group or with the class. You may also want to save the files created for this project in a network portfolio for future reference.

Resources

- Previous curriculum chapter content for EIGRP and OSPF
- Word processing software

Directions

Step 1: Create a matrix for each routing protocol (EIGRP and OSPF).

a. Within each routing protocol matrix, design two sections.

    1) one section for configuration commands

    2) one section for verification or **show** commands

b. Use a word processing program to save your matrix designs, or in the space provided below, one for EIGRP and one for OSPF.

Step 2: Review the chapters in this curriculum.

a. Refer to the different sections and activities presented in the curriculum.

    1) Content

    2) Labs

    3) Packet Tracer Activities

b. Record configuration commands for each protocol on their respective matrix. **Note**: Some commands are universal, and some are used only for IPv4 or IPv6.

c. Record verification commands used for each protocol on their respective matrix. **Note**: Some of these commands are universal, and some are used only with IPv4or IPv6.

d. Leave extra, blank rows for the group or classroom portion of this activity.

Step 3: Meet as a class or with another group.

a. Compare configuration commands.

b. Compare verification commands.

c. Add any commands to each matrix mentioned in the full- or group-setting that you did not record in your own group.

d. Save your work for use with the two Capstone projects which summarize this entire course.