

# Class Activity - Design and Build a Small Business Network (Capstone Project)

## **Objectives**

Explain how a small network of directly connected segments is created, configured and verified.

### **Background /Scenario**

Note: This activity is best completed in groups of 2-3 students.

Design and build a network from scratch.

- Your design must include a minimum of one router, one switch, and one PC.
- Fully configure the network and use IPv4 or IPv6 (subnetting must be included as a part of your addressing scheme).
- Verify the network using at least five show commands.
- Secure the network using SSH, secure passwords and console passwords (minimum).

Create a rubric to use for informal peer grading. Present your Capstone Project to the class and be able to answer questions from your peers and Instructor!

# **Required Resources**

- Packet Tracer
- Student/group-created rubric for assessment of the assignment

#### Reflection

- 1. What was the most difficult portion of this activity?
- 2. Why do you think network documentation is so important to this activity and in the real world?