Design Hierarchy

1. Objective

Identify the three layers of a hierarchical network and how they are used in network design.

1. Scenario

A network administrator is tasked with designing an expanded network for the company.

After speaking with network administrators in other branches of the company, it was decided to use the Cisco three-layer hierarchical network design model to guide the expansion. This model was chosen for its simple influence upon network planning.

The three layers of the expanded network design include:

* Access
* Distribution
* Core

1. Resources

* World Wide Web access
* Presentation software
  1. Use the Internet to research the Cisco three-layer design model for images only.
     1. Find two images that show the three-layer hierarchical design model.
     2. Note the online image’s web address.
  2. Study the two images you have selected from Step 1.
     1. Notice the types of equipment in each layer of the designs you have chosen.
     2. Differentiate why it is assumed the types of equipment shown in the images are located where they are on the design.
     3. Notice any other differences between the chosen images.
        1. Number of devices used within the layers
        2. Redundancy, if any
  3. Create a three-tier model for the ICA:

Use a drawing tool of your choice to draw the ICA 2 network diagram. Please save the design as you can use it in the final assessment documentation. You will get feedback during the session. The feedback will help you improve the final submission. Along with design donot foget to label the devices and media.