

ITE476 Project

To complete this project, you must download the associated Packet Tracer file available on BB. This file will be named ***ite476_Project_Initial_Starter_File.pkt***.

******Make a copy of the original packet tracer file prior to opening it in Packet Tracer in case you need to restart your lab.

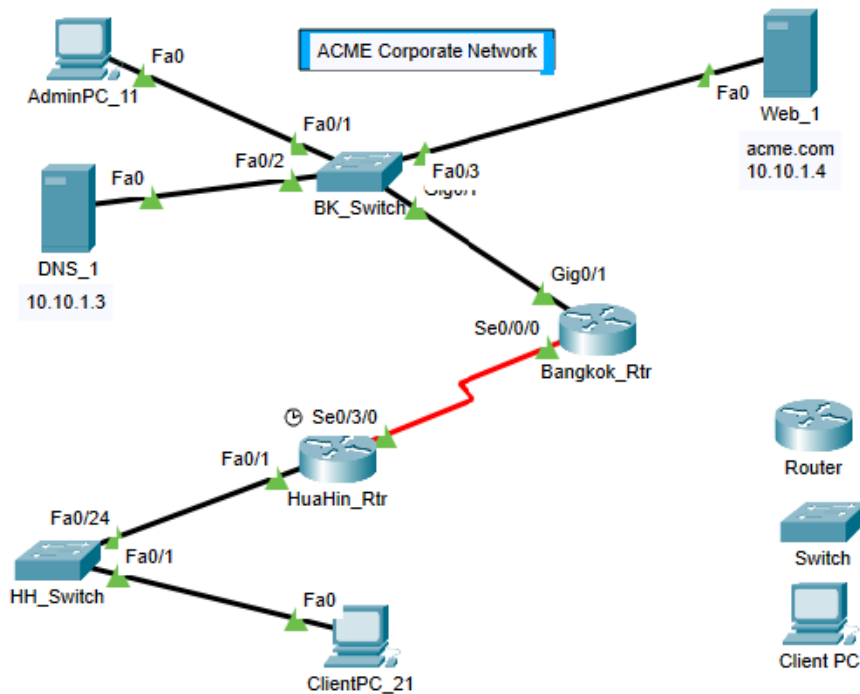
The packet tracer file includes a working model of the internetwork of the ACME corporation, (a fictitious company) which currently has its main office in Bangkok and has a branch office at Hua Hin. Acme has recently completed the construction of a building in the Rayong area for a new branch office, but the office is not yet operational.

You will need the following security information to administer this network:

- Console password and Enable secret is C1SC0 on all network devices. (Note second and last characters are the numbers one and zero, respectively, NOT the letters I and O.
- The telnet password for devices at Bangkok is BK123.
- The telnet password for devices at Hua Hin is HH123.

Part I

Open the provided .pkt file in Packet Tracer.



Explore the configuration of the routers and switches in Bangkok and Hua Hin. You should be able to determine the subnets that have been assigned to the local network in each location and to the serial link connecting the two locations.

Test that the existing network is functional by connecting a web browser from the Client PC in Hua Hin to the web server in Bangkok, using only the web site URL acme.com in the address field of the browser. Also test that you can ping each device and telnet into each device from the Client PC in Hua Hin and from the Admin PC in Bangkok.

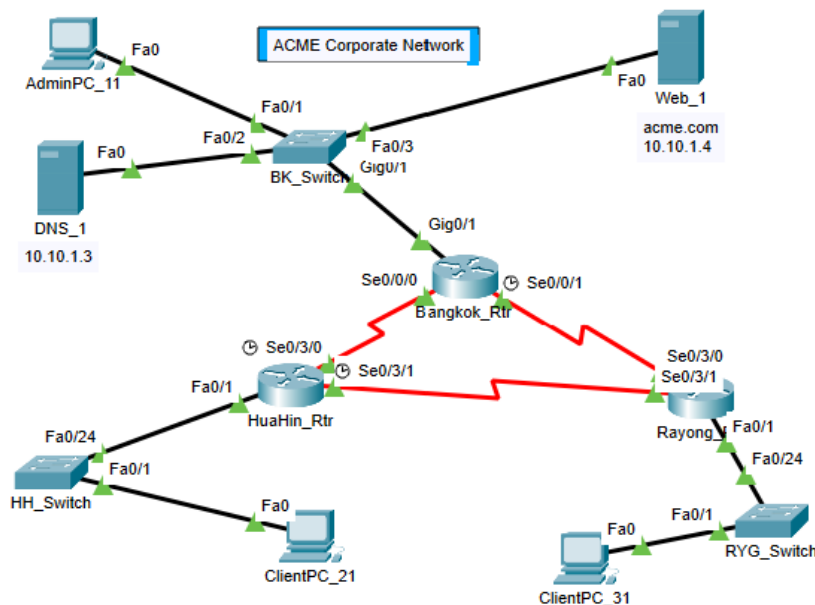
Make sure you understand WHY this internetwork is functional.

Note that the file also includes 3 additional devices that are not configured or connected. You will need these devices in Part II.

Part II

Your task is to use Packet Tracer to design, deploy and configure the client PC, router, and switch for the new office at Rayong. In addition, you must connect the Rayong network via Serial links to the Bangkok and Hua Hin networks, implementing any required configuration changes to the routers at Bangkok and Hua Hin. Use the additional not-yet-connected devices in the provided packet tracer file

The figure below shows what the final topology should look like.



To demonstrate that your network functions correctly, you must be able to successfully perform each of the following tasks:

- From ClientPC_31 (IP 10.10.3.31/26) on the Rayong network, connect a web browser to the home page of the acme.com web server at 10.10.1.4.
- From AdminPC_11 (IP 10.10.1.11 /26) on the Bangkok network, telnet into the main switch on the Rayong network (IP 10.10.3.2 /26).
- From ClientPC_21 on the Hua Hin network (IP 10.10.2.21/26), ping ClientPC_31 on the Rayong network.

Your project submission must include:

- your actual final Packet Tracer file, to be named ite476project-yourlastname-yourstudentid.pkt
- 3 screenshots in a single pdf file, demonstrating successful completion of the tasks above.

The project submission is due to be uploaded to BB prior to Tuesday, 21 Dec 1:00 p.m.

Be prepared to provide a brief demonstration (live demo on Packet Tracer) of your results to the class on Tuesday, 21 Dec. (Normal class time – 2:30 p.m.)

Be prepared to answer a few short questions about your network configuration following your presentation.

Good Luck!