

CISCO 2 Skills Based Final Exam

Files will be given to be configured using the instruction below. This is 4 hours exam, Open Notes.

Cebu Branch

Multi-Area OSPF

Area 0 - BackBone is connected via ISP using the ISP given address

Area 1 - 192.168.192.0/21

Area 2 - 172.16.224.0/22

All Addresses will be distributed by the DHCP Server

Create a localize website here stating the 3 other branches

Website name www.sterlingcebu.com and its alias

Iloilo Branch

Single Area OSPF

Area 1 - 208.11.224.0/21

All Addresses will be distributed by the DHCP Server

Create a localize website here also stating the 2 other branches and the Cebu Main Branch

Website name www.sterlingiloilo.com and its alias

Davao Branch

EIGRP 100 - 172.200.224.0/21

All Addresses will be distributed by the DHCP Server

Create a localize website here also stating the 2 other branches and the Cebu Main Branch

Website name www.sterlingdavao.com and its alias

ISP

Create an ISP on a different file where all branches will connect

Use address 10.10.10.0/30 network

Uses Backup Default Static Route

Uses Primary Route for Protocols directly connected to it

Create www.myISP.com server in the ISP router

The requirement for all branches:

1. Configure what is necessary for the given topology (VLAN, Addressing, Server Services, etc.)
2. Port security with violation shutdown
3. All unused port will be shutdown
4. Use the Main Router of each branch to connect to the ISP
5. Use Backup Default static route for all network connected to ISP
6. Compute for summarization so that entries on the routing table should be manageable.

7. Apply NAT to all main router of each branch. Access to Website, FTP, SMTP will be done through DNS using the Outside Global Address of each Branch.
8. Apply Access Control List
 - a. standard ACL
 - Deny computers from Davao Network to Ping Ilollo Network
 - deny all computers from the Cebu Network Area 2 to telnet Davao Main router.
 - b. extended ACL
 - Deny computers from Ilollo Branch to email Cebu Area 1 network but can email Davao network
 - Deny all computers from Cebu Branch Area 1 to access the web of Davao but can access the website of Ilollo Branch