

Test Project

IT Network Systems Administration

Module D – Cisco Packet Tracer Secret Challenge

Submitted by:

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Module D – Secret challenge

This Test Project proposal consists of the following document/file:

WSC2022SE_TP39_MD_actual_en.docx

WSC2022SE_TP39_MD_SecretChallenge_XX

Introduction

The competition has a fixed start and finish time. You are given a Packet Tracer Activity. Your duty is to resolve as many problems or the required tasks as possible.

Please read the instructions carefully

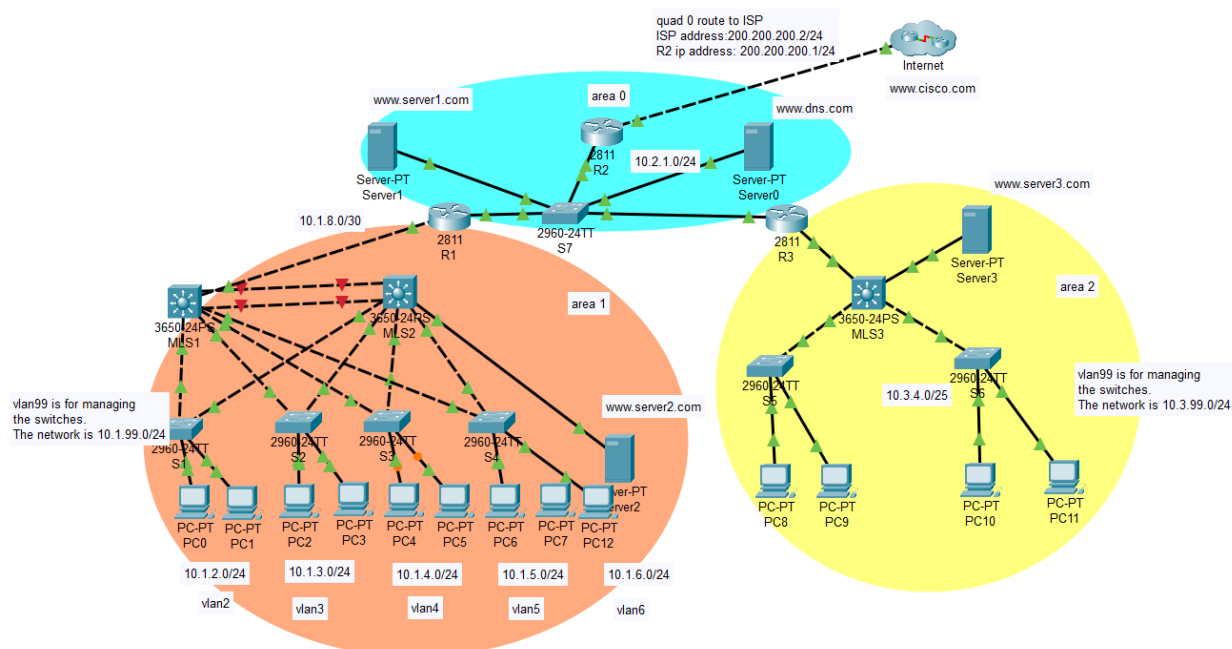
When the competition ends, please save your PKA file your Country-code appended at the end of the file name (Change the XX), leave the Cisco Packet Tracer program and your workstation in a running state.

REMEMBER TO SAVE YOUR PACKET TRACER FILE REGULARLY!

(The Cisco Packet Tracer may crash and you could lose your work.)

Description of project and tasks

Network Topology of the Secret Challenge:



Seven problems/tasks are specified for the above topology in the Instructions section. Your duty is to use as less commands as possible to fix the problems or perform the required tasks.

Points to Note:

1. You may need to change the configurations in more than one device in order to fix one problem.
2. The network addresses of the topology are given in the diagram above. You need to investigate the detailed IP addresses and configurations of the devices yourself in order to find the possible causes of the problem before doing any changes.
3. You can also enable or disable the display of the port labels by changing the preferences of the packet tracer.
4. If you are stuck with a specific problem/task, move on to the next.
5. Use wild-card mask for all OSPF network statements.
6. All passwords are "cisco".
7. vlan x is named as vlanx (e.g., vlan 10 is named as vlan10, all in lower cases).
8. Remember to save your work periodically, a good practice is to save once after finishing one task or the configurations of one device.
9. Connectivity tests may sometimes implicitly be done by the packet tracer when the problem is fixed, hence the scores are included. However, you are advised to do the ping test as specified in the tasks anyway.

Instructions to the Competitor

Your duty is to fix the follow problems or finish the tasks as specified. Try to use as less instructions as possible to fullfil this purpose.

1. The summary route for vlan 2 to vlan 6 of area 1 cannot be injected in R2 and R3 of area 0.
2. The OSPF routes should not be broadcasted to Internet, use ACL 101 to prevent the OSPF traffic to Internet.
Remember to apply this ACL at the interface facing Internet and ensure you permit other IP traffic.
3. PC10 cannot connect to Internet and access www.cisco.com.
4. PC0 and PC1 cannot get the DHCP address from S2.
5. Each port in Switch S4 is allowed to connect to ONLY one end device. Replace PC12 with PC7. After replacement, the IP settings of PC7 and its connection to S4 has to be the same as those of PC12. Ping PC7 to PC6 to check whether the connectivity is successful.
6. PCs in vlan4 cannot ping other PCs or Switches in area 1. After you fix the errors, you need to ping from PC4 to S4 and from PC4 to PC6 to check whether the connectivity is working.
7. The etherchannel between MLS1 and MLS2 is not working. After you fix the errors and bring up the port-channel 1, you need to ping from Server2 to its default gateway to check whether the connectivity is working.

Equipment, machinery, installations, and materials required

Packet Tracer version 8 is required to be installed in the computer.

Marking Scheme

The Packet Tracer Activity calculates the marks automatically when the setup in the Packet Activity is correct.