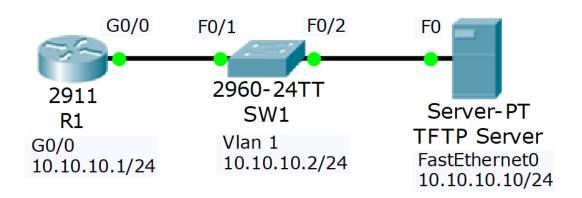
# 15 Cisco Device Management - Lab Exercise

In this lab you will perform a factory reset, password recovery, configuration backup, and system image backup and recovery on a Cisco router. You will also perform an IOS upgrade on a Cisco switch.

Use Cisco Packet Tracer for this exercise. The generic server in Packet Tracer (as shown in the topology diagram below) has built-in TFTP server software.

#### **Lab Topology**



## **Load the Startup Configurations**

Open the '15 Cisco Device Management.pkt' file in Packet Tracer to load the lab.

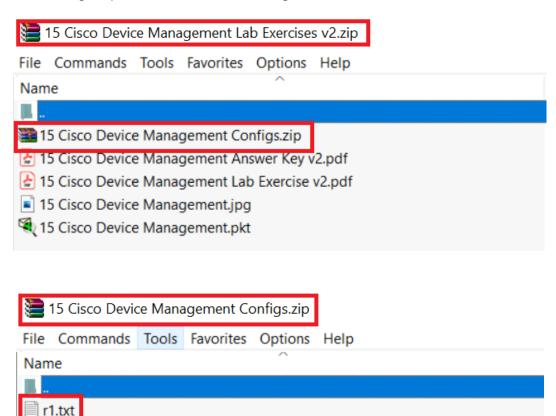


#### **Factory Reset**

- 1) View the running configuration on R1. Note that the hostname and interface have been configured.
- 2) Factory reset R1 and reboot.

sw1.txt

- 3) Watch the boot up process as the router boots.
- 4) The router should boot into the Setup Wizard. Exit out of the wizard and then confirm the startup and running configurations are empty.
- 5) Paste the configuration for R1 from the '15 Cisco Device Management Configs.zip' file back into the configuration and save. You will find it here:





#### Password Recovery

- 6) Set the enable secret 'Flackbox1' on R1 and save the running-configuration.
- 7) Configure the router to boot into the rommon prompt on next reload with an appropriate command and reboot the router.
- 8) In rommon mode, configure the router to ignore the startup-config when booting up, and reload the router.
- 9) The router should boot into the Setup Wizard. Exit out of the wizard.
- 10) What do you expect to see if you view the running and startup configurations? Confirm this.
- 11) Copy the startup config to the running config. Do not miss this step or you will factory reset the router!
- 12) Verify the status of interface GigabitEthernet0/0. Why is it down?
- 13) Bring interface GigabitEthernet0/0 up.
- 14) Remove the enable secret.
- 15) Ensure the router will reboot normally on the next reload and that you will be able to access the router.
- 16) Reboot the router and confirm it has the expected configuration.

#### **Configuration Backup**

- 17) Backup the running configuration to Flash on R1. Use a suitable name for the backup file. Verify the configuration has been backed up.
- 18) Backup the R1 startup configuration to the TFTP server. Use a suitable name for the backup file. Verify the configuration has been backed up.



## **IOS System Image Backup and Recovery**

- 19) Backup the IOS system image on R1 to the TFTP server. Verify the configuration has been backed up.
- 20) Delete the system image from Flash and reload.
- 21) Use Internet search to find system recovery instructions for your model of router. Recover the system image using the TFTP server.

# **IOS Image Upgrade**

- 22) Verify SW1 is running C2960 Software (C2960-LANBASE-M), Version 12.2(25)FX
- 23) Use the TFTP server to upgrade to c2960-lanbasek9-mz.150-2.SE4.bin
- 24) Reboot and verify the switch is running the new software version.

