

3.6.9 Practice Questions

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Score: 100%

Passing Score: 80%



Question 1.

✓ Correct

You are configuring a router that has a previous configuration. You need to turn CDP on for the entire router and turn it off for the serial 0/0/1 interface. Match each command on the left with its associated configuration task on the right.

Enter global configuration mode.

✓ **router#config t**

Turn CDP on for the router.

✓ **router(config)#cdp run**

Enter interface configuration mode.

✓ **router(config)#int s0/0/1**

Turn CDP off for the interface.

✓ **router(config-if)#no cdp enable**

Explanation

To configure CDP for the entire device, use the **cdp run/no cdp run** command in global configuration mode. To configure CDP for a specific interface, use **cdp enable/no cdp enable**. Use the following commands to complete the required tasks:

```
router#conf t
router(config)#cdp run
router(config)#int s0/0/1
router(config-if)#no cdp enable
```

References

 **3.6.1 Cisco Discovery Protocol (CDP)**

 **3.6.2 Set Up CDP**

 **3.6.3 CDP Command List**

 **3.6.8 Support Non-Cisco Devices with LLDP**

resources\text\t_cdplist_ccna7\q_cdplist_01_ccna7.question.xml

Question 2.

✓ Correct

Which of the following commands would you use to modify the CDP packet exchange interval to send CDP packets every 30 seconds?

- **cdp timer 30**
- cdp holdtime 30**
- cdp interval 30**
- cdp exchange 30**
- cdp broadcast 30**

Explanation

Use the **cdp timer** command in global configuration mode to modify the frequency with which CDP packets are sent from the router.

References

 **3.6.1 Cisco Discovery Protocol (CDP)**

 **3.6.2 Set Up CDP**

 **3.6.3 CDP Command List**

 **3.6.8 Support Non-Cisco Devices with LLDP**

resources\text\t_cdplist_ccna7\q_cdplist_02_ccna7.question.xml

You are physically seated at a host connected to the console of the Seattle router as shown in the exhibit. You need to know what IP address has been configured on the E0 interface on the New York router.

What are your options? (Select two.)

- Telnet to New York. From privileged mode, type **show interface E0**.
- From privileged mode on Seattle, type **show cdp neighbors detail**.
- Telnet to Toronto. From privileged mode, type **show interface E0**.
- Telnet to Seattle. From privileged mode, type **show cdp neighbors detail**.
- Telnet to Toronto. From privileged mode, type **show cdp neighbors detail**.

Explanation

You could either Telnet to Toronto and use the **show cdp neighbors detail** command, or you could Telnet to New York and in privileged mode type **show interface E0**.

Typing **show cdp neighbors detail** from the Seattle router will only show the interfaces of directly connected neighbors like Toronto. CDP cannot hop across devices to display information about neighbors on the other side.

Typing **show interface E0** from the Toronto router will only display information about the E0 interface on the Toronto router.

References

-  **3.6.1 Cisco Discovery Protocol (CDP)**
-  **3.6.2 Set Up CDP**
-  **3.6.3 CDP Command List**
-  **3.6.8 Support Non-Cisco Devices with LLDP**

resources\text\t_cdplist_ccna7\q_cdplist_03_ccna7.question.xml

For security reasons, you want to prevent the Toronto router from sharing any information about itself with neighboring devices. Which command should you run on the Toronto router?

- Toronto#**no cdp run**
- Toronto#**no cdp enable**
- Toronto(config)#**no cdp run**
- Toronto(config)#**no cdp enable**

Explanation

To disable CDP on the router, use the **no cdp run** command in global configuration mode.

no cdp enable disables CDP on a specific interface only. It must be issued from interface configuration mode. Neither **no cdp enable** nor **no cdp run** can be issued from privileged mode.

References

 **3.6.1 Cisco Discovery Protocol (CDP)**

 **3.6.2 Set Up CDP**

 **3.6.3 CDP Command List**

 **3.6.8 Support Non-Cisco Devices with LLDP**

resources\text\t_cdplist_ccna7\q_cdplist_04_ccna7.question.xml

You have just entered the configure terminal on a router and specified a gigabit interface. You want to disable CDP on that interface, but you want to keep CDP enabled on the device. Which of the following commands would you use?

- Router(config-if)#**no cdp**
- Router(config-if)#**cdp run**
- Router(config-if)#**no cdp run**
- Router(config-if)#**no cdp enable**

Explanation

no cdp enable disables CDP on the specified interface, but keeps CDP enabled for the device.

no cdp run disables CDP for all interfaces on the device.

cdp run enables CDP for all interfaces on the device.

no cdp is an incomplete command.

References

 **3.6.1 Cisco Discovery Protocol (CDP)**

 **3.6.2 Set Up CDP**

 **3.6.3 CDP Command List**

 **3.6.8 Support Non-Cisco Devices with LLDP**

resources\text\t_cdplist_ccna7\q_cdplist_05_ccna7.question.xml

Which of the following protocols enables Cisco devices to discover non-Cisco devices?

- DCBXP
- LLDP
- CDP
- TLV

Explanation

Cisco devices support Link Layer Discovery Protocol (LLDP), which is a vendor-neutral device discovery protocol that allows network devices to advertise information about themselves.

TLV descriptions are used by LLDP to communicate type, length, and value information to other devices on the network. CDP is Cisco's vendor-specific discovery protocol. DCBXP is an extension of LLDP that is used to announce, exchange, and negotiate node parameters between peer network devices.

References

 **3.6.1 Cisco Discovery Protocol (CDP)**

 **3.6.2 Set Up CDP**

 **3.6.3 CDP Command List**

 **3.6.8 Support Non-Cisco Devices with LLDP**

resources\text\t_lldp_cmds_ccna7\q_lldp_cmds_01_ccna7.question.xml

Which of the following commands disables LLDP globally on a Cisco device?

- switch(config)#**lldp disable**
- switch(config)#**lldp off**
- switch(config)#**no lldp run**
- switch(config)#**disable lldp**

Explanation

The LLDP protocol is disabled on a Cisco device with the lldp command is switch(config)#**no lldp run**.

References

 **3.6.1 Cisco Discovery Protocol (CDP)**

 **3.6.2 Set Up CDP**

 **3.6.3 CDP Command List**

 **3.6.8 Support Non-Cisco Devices with LLDP**

resources\text\t_lldp_cmds_ccna7\q_lldp_cmds_02_ccna7.question.xml

Jaden is the network engineer at a branch office. There are non-Cisco devices on the network that Jaden would like to make sure are discovered by the Cisco router. Jaden has just enabled the Link Layer Discovery Protocol (LLDP) on the router. Which of the following is true about LLDP?

- Enabled by default.
- Does not need to be enabled globally before being used.
- Uses the same commands as CDP.
- Configured on a per-interface basis.

Explanation

When using LLDP, keep in mind that LLDP:

- Is configured on a per-interface basis.
- Is disabled by default.
- Uses similar configuration commands as CDP.
- Must be enabled globally before being used.

References

 **3.6.1 Cisco Discovery Protocol (CDP)**

 **3.6.2 Set Up CDP**

 **3.6.3 CDP Command List**

 **3.6.8 Support Non-Cisco Devices with LLDP**

resources\text\t_lldp_cmds_ccna7\q_lldp_cmds_03_ccna7.question.xml

To show all non-Cisco devices using LLDP, which of the following commands would you execute on a Cisco router?

- Router#**show lldp traffic**
- Router(config-if)#**lldp transmit**
- Router#**show lldp neighbors**
- Router#**show lldp interface**

Explanation

show lldp neighbors displays information about all neighboring non-Cisco devices, including:

- Local interface
- Device ID
- Port ID
- Holdtime
- Capability

show lldp interface displays information about interfaces that have LLDP enabled, including transmit and receive configuration, as well as the current state.

show lldp traffic shows the current state of LLDP traffic, including the number of frames in and out, the number of dropped frames, and the number of Type-Length-Values (TLVs) discarded or un-recognized.

lldp transmit disables the interface from sending LLDP information.

References

 **3.6.1 Cisco Discovery Protocol (CDP)**

 **3.6.2 Set Up CDP**

 **3.6.3 CDP Command List**

 **3.6.8 Support Non-Cisco Devices with LLDP**

resources\text\t_lldp_cmds_ccna7\q_lldp_cmds_04_ccna7.question.xml

The default amount of time that a device will hold information about its neighbors using LLDP is 120 seconds. Which of the following command allows you to change the value?

- Router#**show lldp entry neighbor_name**
- Router(config)#**lldp holdtime [number of seconds]**
- Router#**clear lldp counters**
- Router(config)#**lldp timer [number of seconds]**

Explanation

lldp holdtime [number of seconds] specifies the amount of time that information in a packet is still valid. The default is 120 seconds. Use the `no lldp holdtime` command to reset the value to its default.

lldp timer [number of seconds] specifies how often LLDP packets are exchanged. The default is 30 seconds. Use the `no lldp timer` command to reset the value to its default.

clear lldp counters resets traffic counters to 0.

show lldp entry neighbor_name displays similar information for the specified LLDP neighbor.

References

 **3.6.1 Cisco Discovery Protocol (CDP)**

 **3.6.2 Set Up CDP**

 **3.6.3 CDP Command List**

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resources\text\t_lldp_cmds_ccna7\q_lldp_cmds_05_ccna7.question.xml