



Routing and Switching Essentials (Version 6.00) - RSE 6.0 Chapter 10 Exam

Below is the feedback on items for which you did not receive full credit. Some interactive items may not display your response.

Subscore: Domain Knowledge - Weighted Score 

1 A ping fails when performed from router R1 to directly connected router R2. The network administrator then proceeds to issue the `show cdp neighbors` command. Why would the network administrator issue this command if the ping failed between the two routers?

Correct Response	Your Response
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-  ☐ The network administrator wants to verify Layer 2 connectivity.
- ☐ The network administrator wants to determine if connectivity can be established from a non-directly connected network.
- ☒ The network administrator wants to verify the IP address configured on router R2.
- ☐ The network administrator suspects a virus because the **ping** command did not work.

The **show cdp neighbors** command can be used to prove that Layer 1 and Layer 2 connectivity exists between two Cisco devices. For example, if two devices have duplicate IP addresses, a ping between the devices will fail, but the output of **show cdp neighbors** will be successful. The **show cdp neighbors detail** could be used to verify the IP address of the directly connected device in case the same IP address is assigned to the two routers.

This item references content from the following areas:

Routing and Switching Essentials

10.1.1 Device Discovery with CDP

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```
Mar 01 07:23:03.2323: %LINEPROTO-5-UPDOWN: Line protocol on Interface
Serial0/0, changed state to up
```

Refer to the exhibit. Which two conclusions can be drawn from the syslog message that was generated by the router? (Choose two.)

Correct Response Your Response

- ☐ This message indicates that the interface should be replaced.
- ☒ This message resulted from an unusual error requiring reconfiguration of the interface.
- ☒ This message indicates that service timestamps have been configured.
- ☒ This message is a level 5 notification message.
- ☐ This message indicates that the interface changed state five times.

The message is a level 5 notification message as shown in the %LINEPROTO-5 section of the output. Messages reporting the link status are common and do not require replacing the interface or reconfiguring the interface. The date and time displayed at the beginning of the message indicates that service timestamps have been configured on the router.

This item references content from the following areas:

Routing and Switching Essentials

10.2.2 Syslog Operation


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```
R1# show logging | include changed state to up
*Jun 12 17:46:26.143: %LINK-3-UPDOWN: Interface
GigabitEthernet0/1, changed state to up
*Jun 12 17:16:26.143: %LINK-3-UPDOWN: Interface Serial0/0/1,
changed state to up
*Jun 12 17:25:27.263: %LINEPROTO-5-UPDOWN: Line protocol on
Interface GigabitEthernet0/1, changed state to up
*Jun 12 17:55:27.263: %LINEPROTO-5-UPDOWN: Line protocol on
```

```
Interface Serial10/0/1, changed state to up
*Jun 12 20:28:43.427: %LINK-3-UPDOWN: Interface
GigabitEthernet0/0, changed state to up
```

```
R1# show logging
<output omitted>
Buffer logging: level debugging, 32 messages logged, xml
disabled, filtering disabled
Exception Logging: size (4096 bytes)
Count and timestamp logging messages: disabled
Persistent logging: disabled
```

Correct Response	Your Response
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-  ☐ router RAM
- ☒ router NVRAM
- ☐ syslog server
- ☐ syslog client

The output is captured from a virtual terminal connection on a router. The syslog messages are stored in the RAM of the monitored router.

This item references content from the following areas:

Routing and Switching Essentials

10.2.3 Syslog Configuration

20 Beginning with the Cisco IOS Software Release 15.0, which license is a prerequisite for installing additional technology pack licenses?

Correct Response **Your Response**

- ☒ DATA
- ✓ ☐ IPBase
- ☐ SEC
- ☐ UC

Cisco IOS Software release 15.0 incorporates four technology packs. They are IPBase, DATA, UC (unified Communications), and SEC (Security). Having the IPBase license installed is a prerequisite for installing the other technology packs.

This item references content from the following areas:

Routing and Switching Essentials

10.3.4 Software Licensing

21 Which three software packages are available for Cisco IOS Release 15.0?

Correct Response **Your Response**

- ☐ IPVoice
- ✓ ☐ DATA
- ✓ ☒ Unified Communications
- ☒ Advanced IP Services
- ☐ Enterprise Services

✔ ☒ Security

Cisco IOS Release 15.0 has four available technology software packages.

IPBase

DATA

Unified Communications

Security

This item references content from the following areas:

Routing and Switching Essentials

10.3.4 Software Licensing

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```
R1# show flash:

System flash directory:
File   Length  Name/status
  3   33591768 c1900-universalk9-mz.SPA.151-4.M4.bin
  2    28282  sigdef-category.xml
  1    227537  sigdef-default.xml
[33847587 bytes used, 221896413 available, 255744000 total]
249856K bytes of processor board System flash (Read/Write)
```

Question as presented:

Refer to the exhibit. Match the components of the IOS image name to their description. (Not all options are used.)

mz

15

c1900

bin

platform on which the image runs

authentication type

maintenance release and rebuild number

new feature release number

file extension

major release number



This item references content from the following areas:

Routing and Switching Essentials

10.3.2 IOS System Files

```
R1# show flash:
```

```
System flash directory:
```

File	Length	Name/status
3	33591768	c1900-universalk9-mz.SPA.151-4.M4.bin
2	28282	sigdef-category.xml
1	227537	sigdef-default.xml

[33847587 bytes used, 221896413 available, 255744000 total]
249856K bytes of processor board System flash (Read/Write)

Your response:

Refer to the exhibit. Match the components of the IOS image name to their description. (Not all options are used.)

mz

15

c1900

bin

universalk9

1

4

M4

specifying the feature set



universalk9

minor release number



new feature release number

file extension

bin

major release number

15



