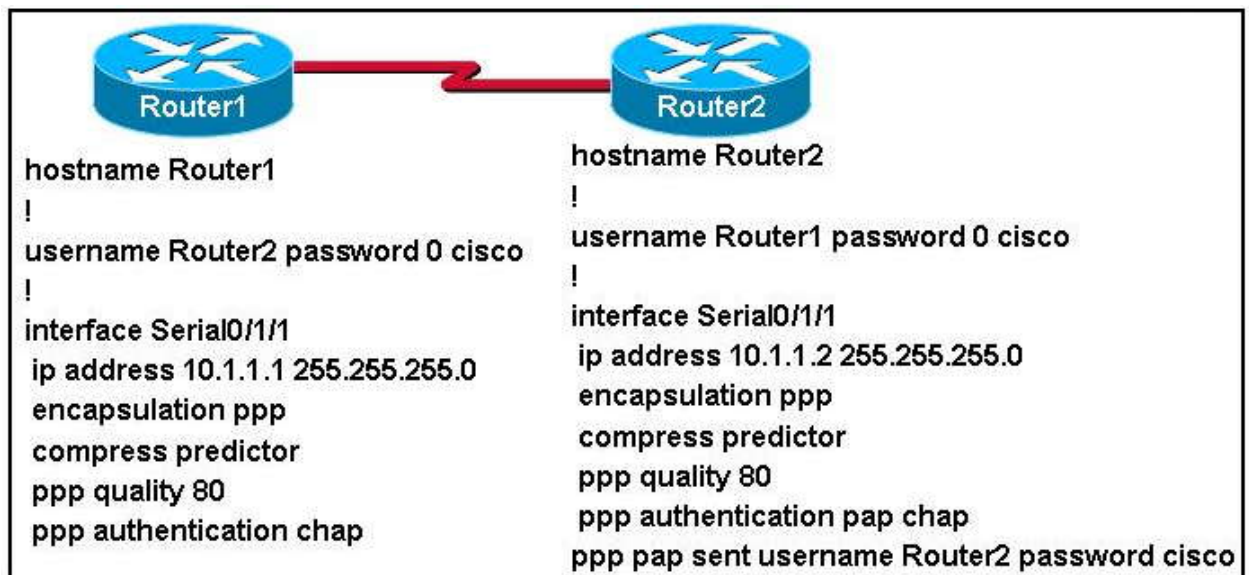


**Take Assessment - EWAN Chapter 2 - CCNA Exploration: Accessing the WAN**  
**(Version 4.0) -75.6%**

**1** Which authentication protocol can be spoofed to allow playback attacks?

- MD5
- CHAP
- **PAP**
- NCP

**2**



Refer to the exhibit. Which two statements are true about this configuration? (Choose two.)

- ☐ **Authentication will fail between these routers.**
- ☐ Each router authenticates its neighbor against the username and password that are configured in the local database.
- ☐ The default encapsulation type is configured on these routers.
- ☐ NCP negotiates for IP to use predictor compression.
- ☐ **If there is more than a 20% error rate on the line, then LCP will take the line down.**

**3** Which two options can LCP negotiate? (Choose two.)

- ☐ **link quality**
- ☐ authentication
- ☐ **dynamic flow control**
- ☐ compression and network layer address for IP

☐ connection-oriented or connectionless communication methods

---

4 Which statement describes parallel data communications?

- Digital data is broken into 8-bit chunks (bytes) and transmitted from one entity to another bit by bit.
  - Digital data that is transmitted over a parallel connection is not affected by clock skew or crosstalk.
  - **Digital data is transmitted from one entity to another via the use of a bus that consists of multiple wires, each carrying one bit of the data sample.**
  - Digital data is transmitted via the use of two loops of wire, one in each direction.
- 

5

```
Router#show interface serial0/0
Serial0/0 is up, line protocol is up
Hardware is HD64570
Internet address is 10.140.1.2/24
MTU 1500 bytes, BW 1544 Kbit, DLY 20000 usec, rely 255/255, load 1/255
Encapsulation PPP, loopback not set, keepalive set (10 sec)
LCP Open
Open: IPCP, CDPCP
38097 packets output, 2135697 bytes, 0 underruns
0 output errors, 0 collisions, 6045 interface resets
0 output buffer failures, 0 output buffers swapped out
482 carrier transitions
DCD=up DSR=up DTR=up RTS=up CTS=up
```

Refer to the exhibit. On the basis of the **show interface Serial0/0/0** output, how many NCP sessions have been established?

- one
  - **two**
  - three
  - four
- 

6 Which serial communications DTE/DCE interface standard is used to provide high-speed connectivity of up to 52 Mbps between LANs and is found on many high-end Cisco routers?

- EIA/TIA 232 (RS-232)
  - ITU V.35
  - **HSSI**
  - EIA/TIA 422 (RS-422)
  - EIA/TIA 423 (RS-423)
-

7 Which three statements are correct about HDLC encapsulation? (Choose three.)

- ☐ HDLC supports PAP and CHAP authentication.-ppp
  - ☐ **HDLC implementation in Cisco routers is proprietary.**
  - ☐ **HDLC specifies a data encapsulation method on synchronous serial links using frame character**  
**checksums**
  - ☐ **HDLC is the default serial interface encapsulation on Cisco routers.**
  - ☐ HDLC and PPP are compatible.
  - ☐ HDLC does not support CDP.
- 

8 Which three statements correctly describe PPP authentication? (Choose three.)

- ☐ **PAP sends passwords in clear text.**
  - ☐ PAP uses a 3-way handshake to establish a link.-
  - ☐ PAP provides protection from repeated trial-and-error attacks.-
  - ☐ CHAP uses a 2-way handshake to establish a link.-
  - ☐ **CHAP uses a challenge/response that is based on the MD5 hash algorithm.**
  - ☐ **CHAP uses repeated challenges for verification.**
- 

9

```
Se2/0:7 LCP: I CONFACK [ACKsent] id 76 len 30
Se2/0:7 LCP: AuthProto CHAP (0x0305C22305)
Se2/0:7 LCP: MagicNumber 0xCC96D7E6 (0x0506CC96D7E6)
Se2/0:7 LCP: MRRU 1524 (0x110405F4)
Se2/0:7 LCP: EndpointDisc 1 3640_PE1 (0x130B01333634305F504531)
Se2/0:7 LCP: State is Open
```

Refer to the exhibit. Which two items were negotiated during the PPP session shown in the debug output? (Choose two.)

- ☐ **Challenge Handshake Authentication Protocol**
  - ☐ Password Authentication Protocol
  - ☐ compression
  - ☐ link quality
  - ☐ **error detection**
- 

10 Which three statements are true regarding LCP? (Choose three.)

- ☐ **It is responsible for negotiating link establishment.**
  - ☐ It negotiates options for Layer 3 protocols running over PPP.
  - ☐ It uses MD5 encryption while negotiating link establishment parameters.
  - ☐ **It terminates the link upon user request or the expiration of an inactivity timer.**
  - ☐ **It can test the link to determine if link quality is sufficient to bring up the link.**
  - ☐ It monitors the link for congestion and dynamically adjusts the acceptable window size.
- 

**11**

Encapsulation PPP, LCP Open Open IPCP, CCP, CDCP, loopback not set
---

Refer to the exhibit. What statement is true regarding the output shown?

- LCP is in the process of negotiating a link.
  - LCP and NCP are waiting for CHAP authentication to complete.
  - LCP negotiation has been successful, but NCP negotiation is in progress.
  - **Data is able to flow across this link.**
- 

**12** What does the demarcation point represent in data communication physical circuits?

- DTE/DCE interface on the device connecting to the Internet
  - location of the firewall or router
  - **physical point at which the public network ends and the private customer network begins**
  - tag assigned to the physical block where a cross-connect occurs
- 

**13** Which two statements are true regarding time-division multiplexing (TDM)? (Choose two.)

- ☐ It allows information from multiple channels to be allocated bandwidth on a multiple wires.
  - ☐ **Multiple sources can transmit over a single channel.**
  - ☐ **Original data streams must be reconstructed at the destination.**
  - ☐ TDM relies on Layer 3 protocols to operate.
  - ☐ TDM methods vary depending on the Layer 2 protocol used.-
- 

**14**

```
LCP: I CONFREQ [ACKrcvd] id 8 len 14
LCP: AuthProto PAP (0x0304C023)
LCP: MagicNumber 0x507A214D (0x0506507A214D)
LCP: O CONFNAK [ACKrcvd] id 8 len 9
LCP: AuthProto CHAP (0x0305C22305)
```

Refer to the exhibit. What statement is true regarding the output shown?

- NCP has successfully negotiated.
- The PAP passwords did not match, so the routers are trying CHAP authentication.
- **One router has suggested PAP authentication, and the other has accepted authentication but suggested CHAP authentication.**
- One router can only use PAP authentication while the other router can only use CHAP, so the connection has been rejected.

15

```
ppp: ipcp_reqci: returning CONFACK
```

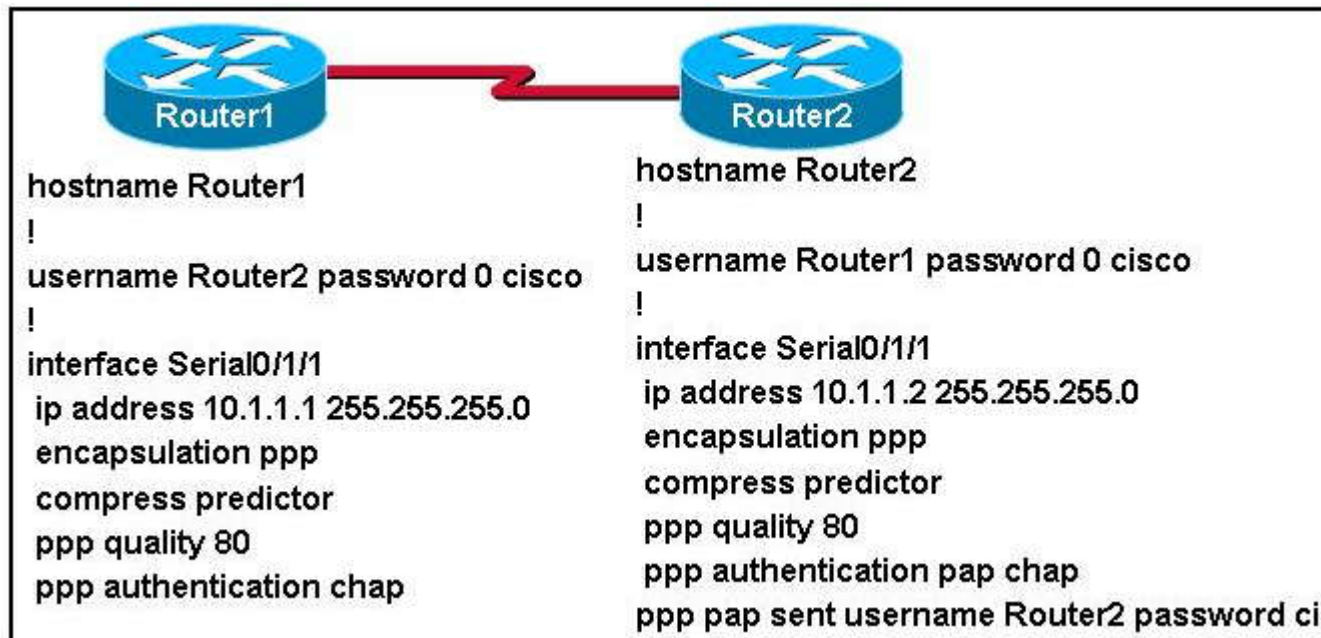
Refer to the exhibit. Which two statements are true regarding the output shown? (Choose two.)

- ☐ **LCP negotiation has been successful.**
- ☐ **The router has agreed on IP parameters.**
- ☐ The router is negotiating IP compression options.
- ☐ The router is requesting an IP address from its peer.
- ☐ The router has accepted IP but not the suggested IP options.

16 What function do Network Control Protocols provide for a PPP connection?

- to establish and terminate data links
- error detection
- to manage network congestion and to allow quality testing of the link
- **to allow multiple Layer 3 protocols to operate over the same physical link**
- to provide authentication capabilities to PPP

17



Refer to the exhibit. Which series of statements accurately describes the PPP link establishment process for these routers?

- LCP negotiates the authentication option  
LCP tests link quality  
PAP authentication  
NCP negotiates Layer 3 protocol options
- **LCP negotiates the compression and authentication options**  
**LCP tests link quality**  
**CHAP authentication**  
**NCP negotiates Layer 3 protocol options**
- LCP tests the link quality  
LCP negotiates compression and authentication options  
CHAP authentication  
NCP negotiates Layer 3 protocol options
- CHAP authentication  
LCP tests link quality  
LCP negotiates compression options  
NCP negotiates Layer 3 protocol options
- LCP negotiates the compression and authentication options  
NCP negotiates Layer 3 protocol options  
LCP tests link quality  
CHAP authentication

- 18** What is the reason why parallel data communications is not feasible over long transmission lengths?
- **crosstalk between wires and clock skew**

- error checking not possible
  - transmission rate is too low
  - too much attenuation
- 

**19** Which advantage does the multilink option provide when using PPP?

- **Data transmission has load balancing possibilities.**
  - Interfaces can be configured using both HDLC and PPP.
  - More than one authentication method can be used.
  - More than one compression protocol can be configured.
- 

**20** What would **show interface s0/0/0** indicate if **show controllers s0/0/0** indicated a cable type of unknown?

- **serial 0/0/0 is down, line protocol is down**
  - serial 0/0/0 is up, line protocol is down
  - serial 0/0/0 is up, line protocol is up (looped)
  - serial 0/0/0 is up, line protocol is down (disabled)
  - serial 0/0/0 is administratively down, line protocol is down
- 

21

```
Serial1 is up, line protocol is up
Hardware is HD64570
Internet address is 200.200.200.1/24
MTU 1500 bytes, BW 1544 Kbit, DLY 20000 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation PPP, loopback not set
Keepalive set (10 sec)
LCP Open
Open: IPCP, CDPCP
Last input 00:00:04, output 00:00:04, output hang never
Last clearing of "show interface" counters 00:08:59
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: weighted fair
Output queue: 0/1000/64/0 (size/max total/threshold/drops)
Conversations 0/1/256 (active/max active/max total)
Reserved Conversations 0/0 (allocated/max allocated)
Available Bandwidth 1158 kilobits/sec
```

Refer to the exhibit. According to the the provided router output, which statement is true

<http://ccna-4.blogspot.com>

[http://360.yahoo.com/quocvuong\\_it](http://360.yahoo.com/quocvuong_it)

regarding PPP operation?

- Only the link-establishment phase completed successfully.
- Only the network-layer phase completed successfully.
- Neither the link-establishment phase nor the the network-layer phase completed successfully.
- **Both the link-establishment and network-layer phase completed successfully.**