200-301 Q&As

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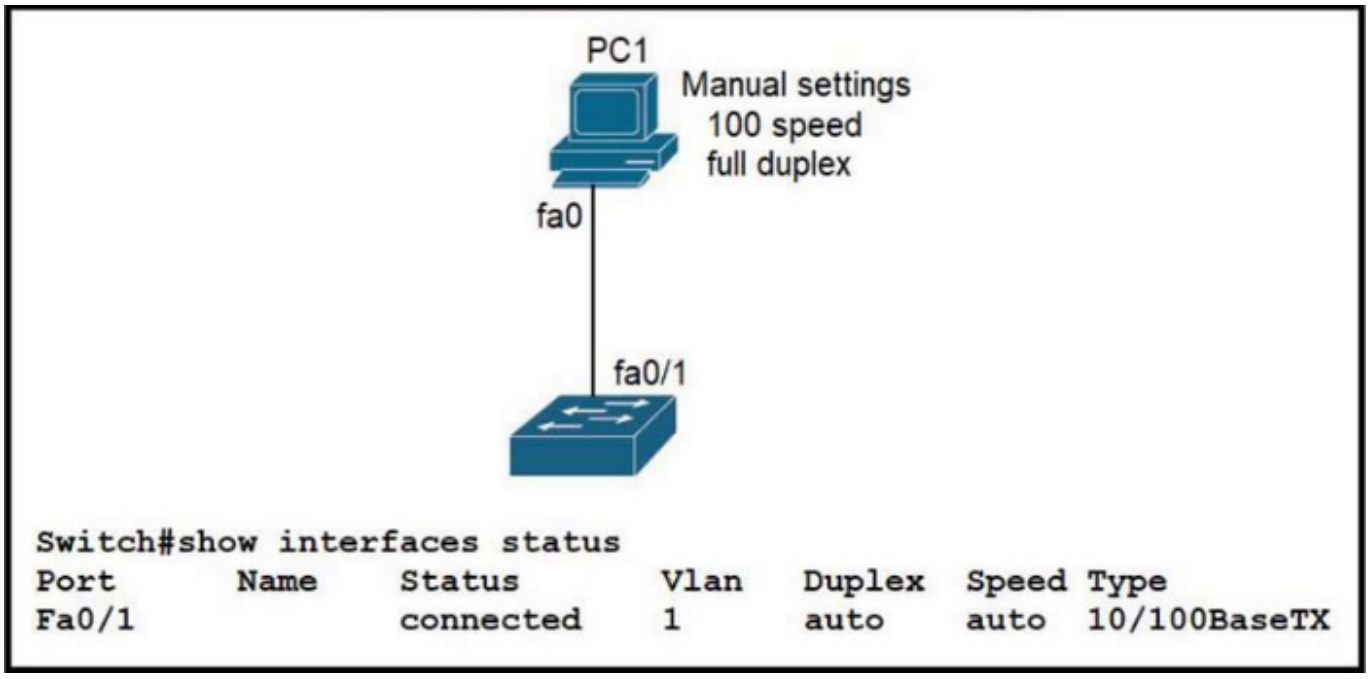
QUESTION 1

Refer to the exhibit.



The link between PC1 and the switch is up, but it is performing poorly. Which interface condition is causing the performance problem?

A. There is an issue with the fiber on the switch interface.

B. There is a duplex mismatch on the interface.

C. There is an interface type mismatch.

D. There is a speed mismatch on the interface.

Correct Answer: B

The PC\\'s port runs in full duplex, while the Fa0/1 port on the switch is in auto-negotiate mode.

This results in a duplex mismatch that causes the switchport to operate as half-duplex, which culminates in poor performance on the link.

"A duplex mismatch occurs when two connected devices are configured in different duplex modes.

This may happen, for example, if one is configured for autonegotiation while the other one has a fixed mode of operation that is full duplex (no autonegotiation). In such conditions, the autonegotiation device correctly detects the speed of

operation, but is unable to correctly detect the duplex mode.

As a result, it sets the correct speed but assumes half-duplex mode.

When a device is operating in full duplex while the other one operates in half duplex, the connection works reliably only at a very low throughput."

Reference: https://en.wikipedia.org/wiki/Autonegotiation#Duplex_mismatch

QUESTION 2

Which two commands can you use to configure an actively negotiate EtherChannel? (Choose two.)

A. channel-group 10 mode on

B. channel-group 10 mode auto

C. channel-group 10 mode passive

D. channel-group 10 mode desirable

E. channel-group 10 mode active

Correct Answer: DE

Desirable mode: Desirable mode in Port Aggregation Protocol (PAgP) initiates the negotiation and tries to form EtherChannel with other end. Active Mode: Active Mode in Link Aggregation Control Protocol (LACP) initiates the negotiation and tries to form EtherChannel with other end.

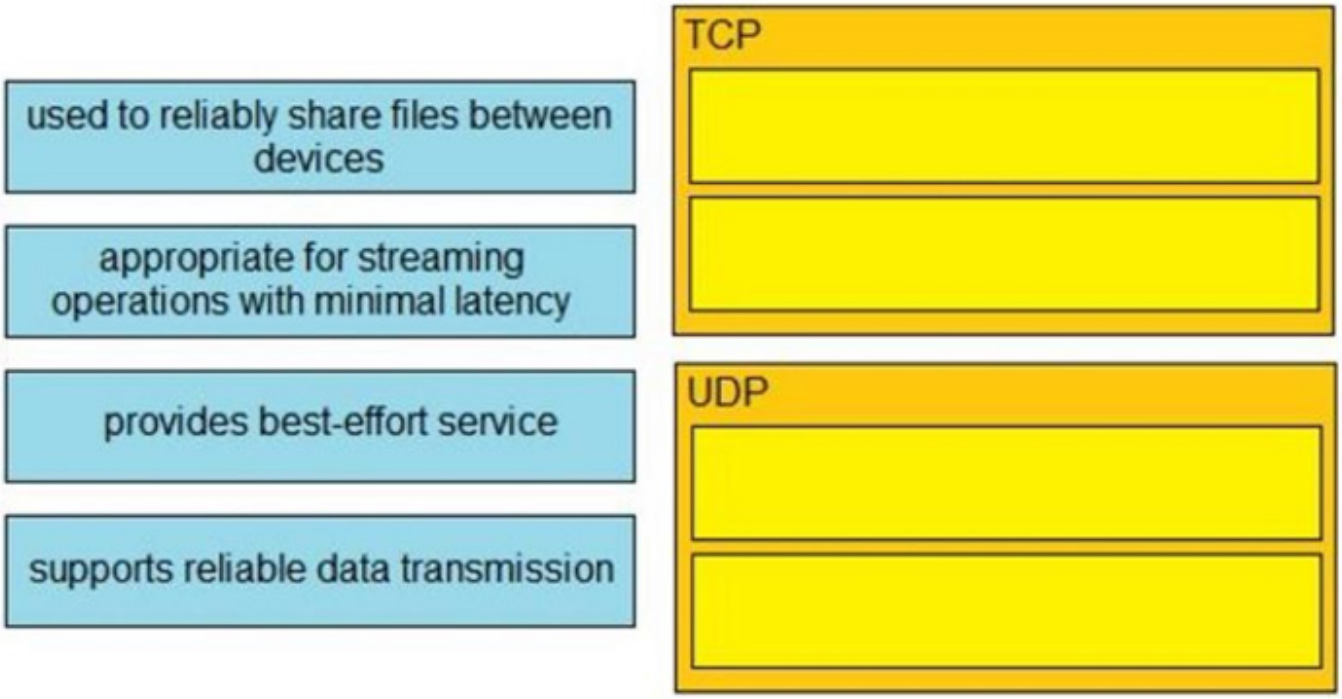
QUESTION 3

Drag and Drop

Drag and drop the TCP or UDP details from the left onto their corresponding protocols on the right.

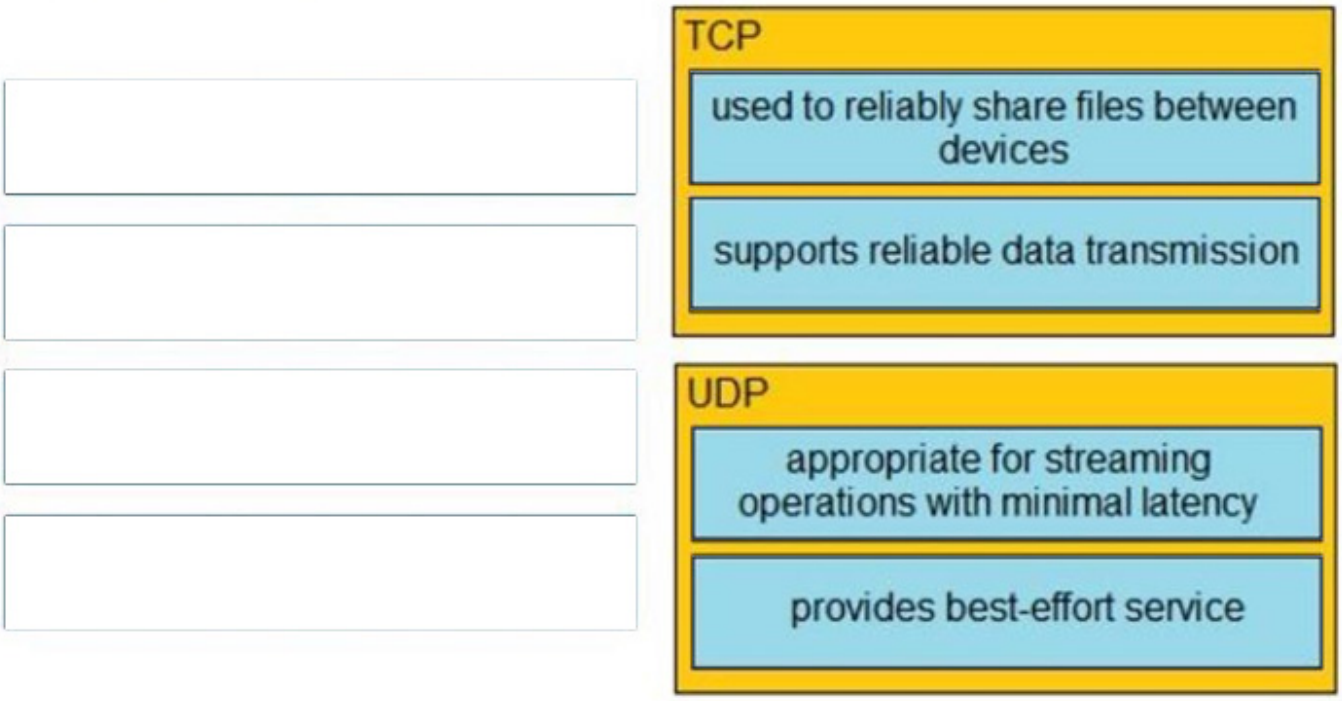
Select and Place:

Answer Area



Correct Answer:

Answer Area



QUESTION 4

Refer to the exhibit.

```
Router# show interface FastEthernet0/0

FastEthernet0/0 is up, line protocol is up
   Hardware is Gt96k FE, address is 0017.59b2.7fb2 (bia 0017.59b2.7fb2)
   Internet address is 10.0.0.2/30
   MTU 1500 bytes, BW 100000 Kbit/sec, DLY 100 usec,
      reliability 255/255, txload 1/255, rxload 1/255
   Encapsulation ARPA, loopback not set
   Keepalive set (10 sec)
   Half-duplex, 100Mb/s, 100BaseTX/FX
   ARP type: ARPA, ARP Timeout 04:00:00
   Last input 00:00:04, output 00:00:04, output hang never
   Last clearing of "show interface" counters never
   Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 1
   Queueing strategy: fifo
   Output queue: 0/40 (size/max)
   5 minute input rate 516000 bits/sec, 45 packets/sec
   5 minute output rate 516000 bits/sec, 46 packets/sec
      13282 packets input, 20075670 bytes
      Received 25 broadcasts, 0 runts, 0 giants, 0 throttles
      383 input errors, 383 CRC, 0 frame, 0 overrun, 0 ignored
      0 watchdog
      0 input packets with dribble condition detected
      13438 packets output, 20084258 bytes, 0 underruns
      0 output errors, 831 collisions, 5 interface resets
      11 unknown protocol drops
      0 babbles, 0 late collision, 0 deferred
      0 lost carrier, 0 no carrier
      0 output buffer failures, 0 output buffers swapped out
```

Users at a branch office are experiencing application performance issues, poor VoIP audio quality, and slow downloads. What is the cause of the issues?

A. QoS queuing

B. interface configuration

C. broadcast storm

D. overutilization

Correct Answer: B

QUESTION 5

Which level of severity must be set to get informational syslogs?

A. alert

B. critical

C. notice

D. debug

Correct Answer: D

Specifying a level causes messages at that level and numerically lower levels to be displayed at the destination. From Table 3 : informational level = 6, debugging level = 7, notice/notifications level = 5 Severity Level 7 - Making informational, notice, Warning, Error, Critical, Alert, Emergency appear in the syslog https://www.cisco.com/c/en/us/td/docs/routers/access/wireless/software/guide/SysMsgLogging.html