

## Exam Questions 200-601

IMINS2 Managing Industrial Networking for Manufacturing with Cisco Technologies

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**NEW QUESTION 1**

Why is SSH preferred over Telnet as a method of accessing a network device to alter or view the configuration?

- A. Telnet encrypts only the login information, not the entire transmission.
- B. SSH requires fewer network resources and no additional configuration.
- C. Telnet is more difficult to use and configure than SSH.
- D. SSH encrypts the login and session information.

**Answer: D**

**NEW QUESTION 2**

Your supervisor calls you and tells you that one of the Stratix 5700 switches is not assigning all CIP explicit messages to the proper QoS queue. The switch was deployed with the ab-global macro and CIP explicit messages were previously being assigned to the proper QoS queue. You suspect the access-lists associated with the ab-global macro have been changed. Look at the following access list from the switch configuration:

```
access-list 101 permit udp any eq 2222 any dscp 55 access-list 102 permit udp any eq 2222 any dscp 47 access-list 103 permit udp any eq 2222 any dscp 43
access-list 104 permit udp any eq 2222 any
access-list 105 permit udp any eq 44818 any access-list 105 permit tcp any eq 44816 any
```

What needs to be done to fix the above access list?

- A. Access list 105 should reference udp port 44816
- B. Access lists 101-104 should reference udp port 2212
- C. Access list 105 should reference tcp port 44818
- D. Access list 104 should be a deny access list rather than a permit access list

**Answer: C**

**NEW QUESTION 3**

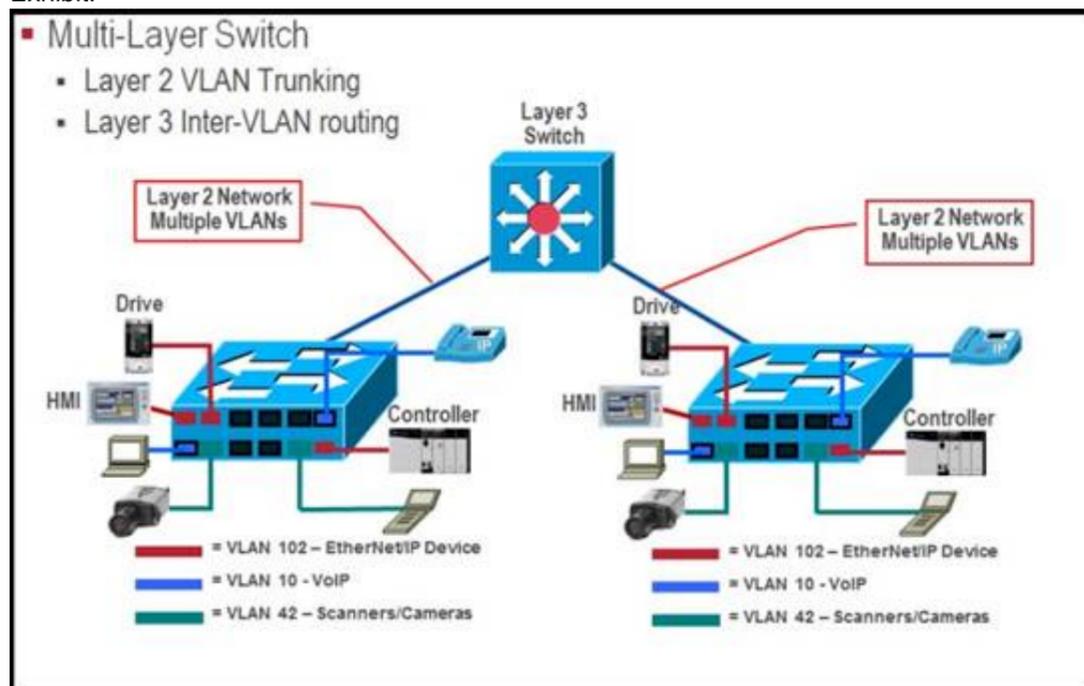
It is common to use Resilient Ethernet Protocol (REP) on the manufacturing floor as a resiliency protocol, as opposed to the Enterprise where it is not generally deployed. What are two reasons why REP is more suitable for the plant floor? (Choose two)

- A. REP is only supported on Industrial Ethernet switches, it is not supported on Catalyst switches.
- B. REP converges faster than Spanning Tree, allowing for greater network availability.
- C. REP supports Industrial Ethernet protocols better because it moves the packets faster.
- D. Running dual cables from access switches to an aggregation switch can have a much higher cost on the plant floor than in the Enterprise and running a ring protocol like REP provides resiliency at a lower cost.
- E. Industrial protocols can be negatively impacted by the number of nodes the Ethernet frame traverses, REP provides a topology with no more than 3 nodes for any data path.

**Answer: BD**

**NEW QUESTION 4**

Exhibit:



Refer to the exhibit. What are three traffic and interconnection requirements for the devices in the exhibit? (Choose three.)

- A. The EtherNet/IP drive connections are in a high-voltage area and need protection from electromagnetic noise, so shielded cable that is rated for 600 V is advised.
- B. EtherNet/IP devices such as the controller, drive, VoIP phone, and IP camera should be in the same VLAN.
- C. CIP traffic has the highest bandwidth requirement so it needs the highest QoS setting.
- D. EtherNet/IP drive traffic has high sensitivity to random drops, latency, and jitter.
- E. Real-time motion control and VoIP traffic can share the same VLAN with the proper QoS setting.
- F. IEEE1588 and PTP are important for ensuring real-time synchronization.

**Answer: ADF**

**NEW QUESTION 5**

What are the two most relevant factors in determining the class of administration that is required to maintain the telecommunications infrastructure? (Choose two.)

- A. the size of the infrastructure
- B. the complexity of the infrastructure
- C. the age of the infrastructure
- D. the industry that the infrastructure supports
- E. the physical environment of the infrastructure

Answer: AB

**NEW QUESTION 6**

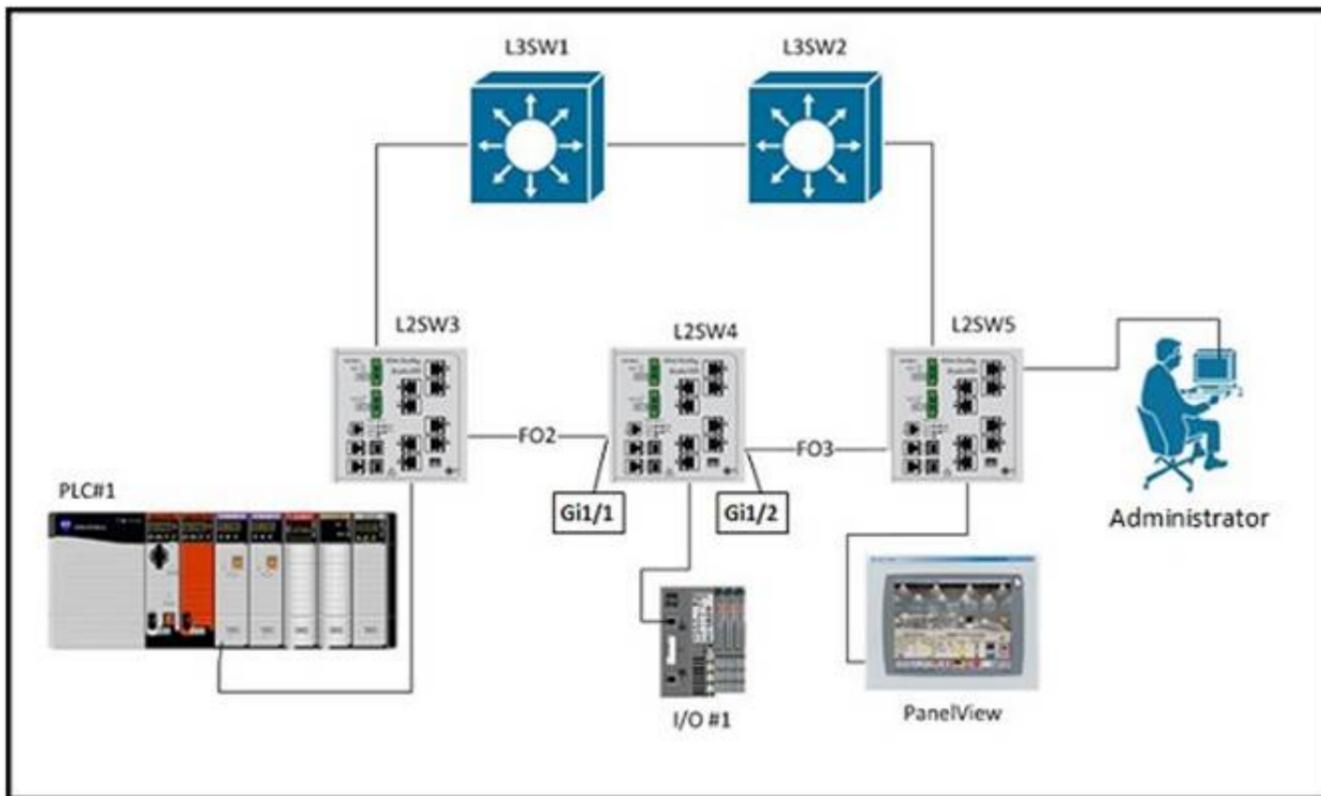
What are two benefits of a star network topology? (Choose two.)

- A. Disruption of the entire network is not required when adding new machines.
- B. Any problem which leaves the network inoperable can be traced to the central hub.
- C. This network type requires less cable as compared to linear bus topology.
- D. The performance of one of the numerous nodes cannot reflect on the performance of other nodes.
- E. The performance of the entire network is directly dependent on the performance of the hub.

Answer: AB

**NEW QUESTION 7**

Refer to the exhibit.



CIP Implicit messages from I/O#1 are being marked IP DSCP 47 by the endpoint and this marking is trusted by L2SW4. L2SW4 is configured to map DSCP 47 to output queue 1 threshold 1. You have received feedback that some of these messages are not being received. Executing the show mls interface GigabitEthernet statistics command on L2SW4 results in:

```
L2SW4# show mls interface GigabitEthernet 1/1 statistics
<output omitted>
output queues dropped:
queue: threshold1 threshold2 threshold3 queue 0 0 0 0
queue 1 309232345 450 0
queue 2 300 10 0
queue 3 91 0 0
```

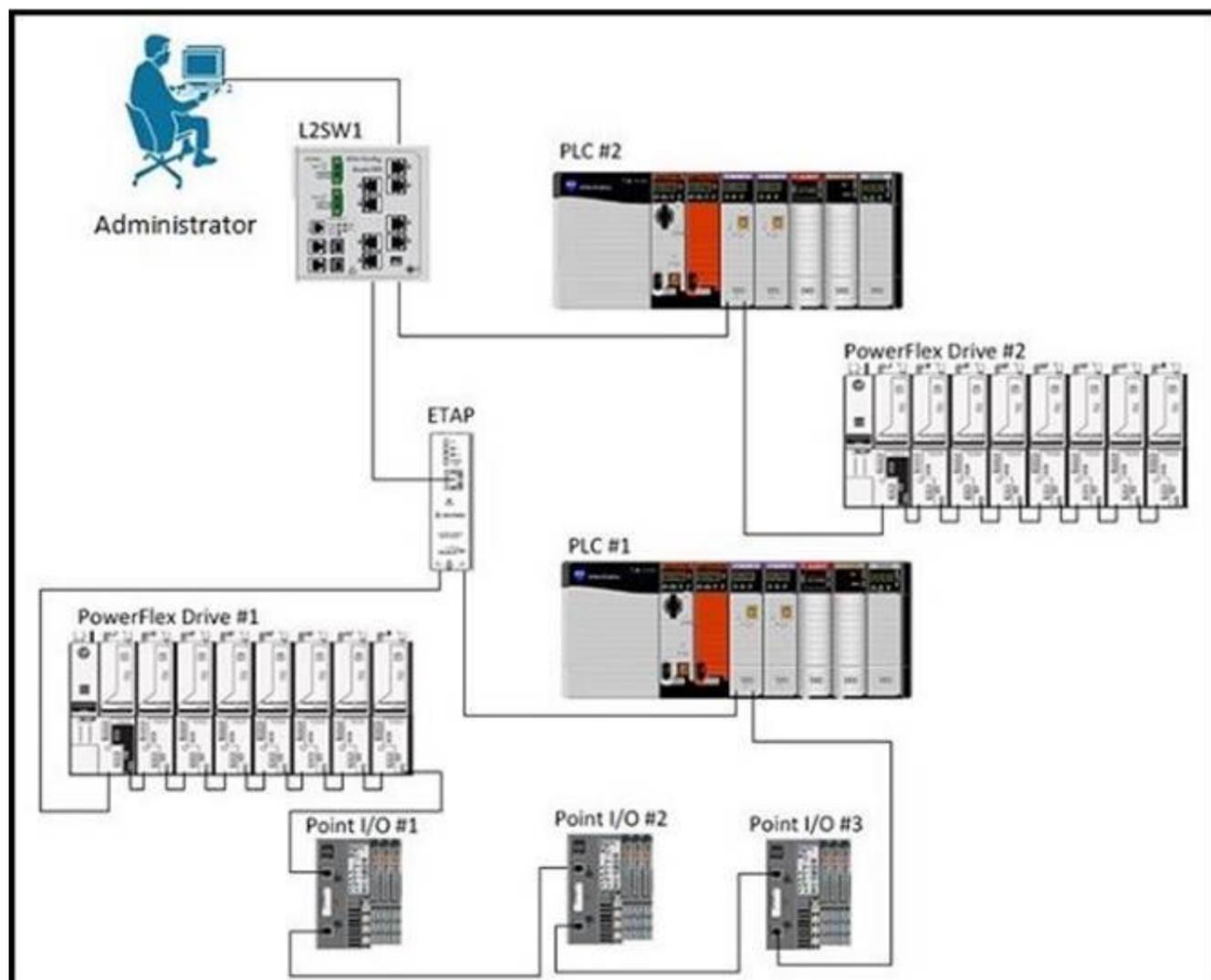
Repeating this command results in the counters incrementing for queue 1 threshold 1. What are two options for reducing the packet loss on this interface while preserving the end-to-end DSCP marking? (Choose two)

- A. Configure I/O#1 to mark this traffic with a different DSCP that is mapped to a less congested queue
- B. Increase the buffer allocation for input queue 1
- C. Increase the buffer allocation for output queue 1
- D. Alter the service policy to police to a higher CIR
- E. Change the egress queue map on L2SW4 to map this traffic to a less congested queue

Answer: CE

**NEW QUESTION 8**

Refer to the exhibit.



An expansion project added an E-Tap and Device Level Ring to interface FastEthernet1/1 of L2SW1. The administrator has looked at the logs of L2SW1 and found that FastEthernet1/1 was in an error-disabled state. Using command line access on L2SW1, the administrator issued the following commands in configuration mode:

```
L2SW1(config)# interface FastEthernet 1/1 L2SW1(config-if)# shutdown L2SW1(config-if)# no shutdown
```

The administrator checked the logs of L2SW1 and found the following:

```
Mar 30 02:23:17.588: %PM-4-ERR_DISABLE: bpduguard error detected on Fa1/1, putting Fa1/1 in err-disable state
```

The administrator checked the software configuration of the switch port and found the following:

```
interface FastEthernet1/1 switchport access vlan 310 switchport mode access speed 100
```

```
duplex full no mdix auto
```

```
spanning-tree portfast
```

```
spanning-tree bpduguard enable
```

Why has the port gone error-disabled?

- A. interface FastEthernet1/1 is configured as an access port on the wrong VLAN.
- B. There is a duplex mismatch between interface FastEthernet1/1 and the E-Tap.
- C. The E-Tap is not configured as a ring supervisor causing a loop on interface FastEthernet1/1.
- D. The E-Tap is configured at 10Mbps and the switch port is configured at 100Mbps.
- E. Automatic MDI Crossover detection is disabled.

Answer: C

#### NEW QUESTION 9

It is determined that an intermittent high packet loss event is occurring within a segment of the network. The assigned task is to determine the cause. Which of these conditions should be suspected?

- A. [MISSING]
- B. [MISSING]
- C. [MISSING]
- D. [MISSING]

Answer: D

#### NEW QUESTION 10

Which of the following correctly pairs the dotted decimal subnet mask with the correct number of binary bits that represent the subnet mask?

- A. 255.255.255.192 and /25
- B. 255.255.255.248 and /28
- C. 255.255.255.224 and /26
- D. 255.255.255.248 and /27
- E. 255.255.255.240 and /28
- F. 255.255.255.240 and /16

Answer: E

#### NEW QUESTION 11

AP CAPWAP control traffic should be isolated from wireless client traffic. Which scenario represents the correct configuration to support the SSIDs of this controller-

based access point in FlexConnect local switching mode?

- A. [MISSING]
- B. [MISSING]
- C. [MISSING]
- D. [MISSING]

**Answer:** C

#### NEW QUESTION 12

Which statement is correct regarding Media Redundancy Protocol (MRP) in a ring of ProfiNET devices?

- A. When a link fault is detected, MRP rings must converge in less than 100 milliseconds
- B. MRP defines two device roles, Media Redundancy Master and Media Redundancy Client
- C. MRP can support rings of up to 250 devices
- D. MRP is only supported on network switches

**Answer:** B

#### NEW QUESTION 13

A cookie cutter machine requires 2 standard controllers and a safety controller. All of these controllers and machine level I/O have been placed on VLAN 104. The safety controller must monitor an emergency stop connected to an I/O adapter on an adjacent machine (VLAN 105). Which packet type will be used?

- A. UDP Multicast TTL = 1
- B. UDP Multicast TTL = 2
- C. UDP Unicast
- D. TCP Unicast

**Answer:** C

#### NEW QUESTION 14

Cisco Industrial Ethernet switches are capable of sending alarm messages to ProfiNET management stations using the ProfiNET-IO protocol. Which four are alarms that can be configured for an interface? (Choose four)

- A. Port Not Forwarding
- B. Port Not Operating
- C. Port LLDP Disabled
- D. Port QoS Disabled
- E. Port Duplex Mismatch
- F. Port FCS Errors Exceeded Threshold
- G. Port CRC Errors Exceeded Threshold
- H. Port Link Fault

**Answer:** ABFH

#### NEW QUESTION 15

Which two are possible solutions to control which devices can communicate between industrial zones? (Choose two)

- A. Use per zone private IP addressing and deploy NAT to control traffic between zones
- B. Put access control lists on switches connecting industrial zones to control traffic
- C. Attach each zone to a firewall to control intra-zone traffic
- D. Deploy QoS traffic shaping to limit the volume of traffic between industrial zones
- E. Deploy an IDS system between the zones to control intra-zone traffic

**Answer:** BC

#### NEW QUESTION 16

You have reached the limit of IPv4 IGMP groups available on a Cisco IE 3000 switch that was deployed using the Express Setup. Which CLI command will increase the number of available IPv4 IGMP groups and multicast routes from 256 to 1000 on this switch?

- A. switch(config)#sdm prefer routing
- B. switch(config)#sdm prefer vlan igmp
- C. switch(config)#sdm prefer routing igmp
- D. switch(config)#sdm prefer vlan

**Answer:** A

#### NEW QUESTION 17

Which describes a best practice rule for controlling traffic between the corporate network and the controls network?

- A. Outbound traffic from the control network to the corporate network and outbound traffic from the corporate network to the control network can be restricted based on source and destination address only.
- B. Outbound traffic from the corporate network to the control network should be restricted but outbound traffic from the control network to the corporate network should not be restricted.
- C. Outbound traffic from the control network to the corporate network should be restricted based on source and destination address and service only.
- D. Outbound traffic from the control network to the corporate network should be restricted based on source and destination address, service, and port.

Answer: D

NEW QUESTION 18

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