Exam Questions 200-601

Managing Industrial Networking for Manufacturing with Cisco Technologies

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NEW QUESTION 1
Which configuration enables an Industrial Ethernet switch to participate in PTP clock selection and sets the priority value that would break the tie between switches with matching default criteria to 50?

A. ptp mode boundary ptp priority1 10ptp priority2 50
B. ptp mode boundary ptp priority1 50ptp priority2 10
C. ptp mode e2etransparent ptp priority1 50ptp priority2 10
D. ptp mode e2etransparent ptp priority1 10ptp priority2 50

Answer: A

NEW QUESTION 2
Which CLI command will display IGMP snooping information in a Cisco IE2000 or Stratix 5700 switch?

A. switch#show snooping ip igmp
B. switch#show igmp snooping
C. switch#show ip igmp snooping
D. switch#show ip snooping

Answer: C

NEW QUESTION 3
A small manufacturing company has a Class C network address on the plant floor and needs to create five subnets, each accommodating 25 endpoints. Which subnet mask needs to be configured?

A. 255.255.240.0
B. 255.255.255.128
C. 255.255.255.192
D. 255.255.255.224
E. 255.255.255.240
F. 255.255.255.248

Answer: D

NEW QUESTION 4
Which five are characteristics that describe Cisco Industrial switches? (Choose five)

A. Din rail mount
B. 19 inch rack mount
C. Fanless
D. Fans
E. Swappable SD flash card
F. Alarm relay
G. -5ºC to 45ºC operating environment
H. ProfiNET conformance class C compliance

Answer: ABCEF

NEW QUESTION 5
Refer to the exhibit. Which lines represent an I/O connection running at a 20ms RPI?

A. 2919, 2923, 2926
B. 2920, 2926, 2929
C. 2922, 2929, 2935
D. 2914, 2915, 2916

Answer: A

NEW QUESTION 6

Which prompt is used to configure parameters for the Ethernet ports of an industrial switch?

A. Switch(config-if)#
B. Switch(config-if-ind)#
C. Switch(config-line)#
D. Switch(config-ind)#
E. Switch(config-vlan)#

Answer: A

NEW QUESTION 7

Exhibit:
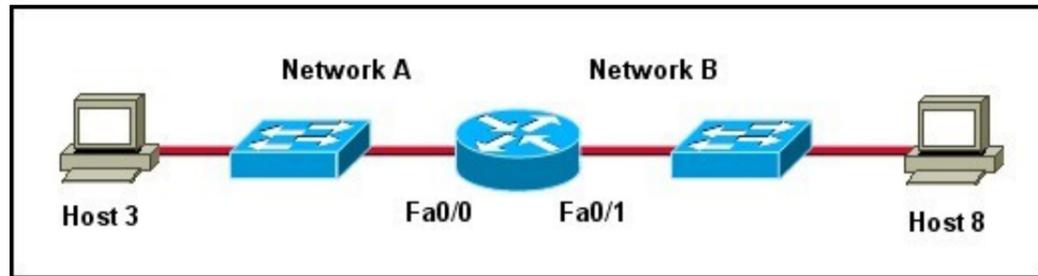
Refer to the exhibit. Host 3 on Network A is sending data to Host 8 on Network B. Which address is the default gateway of Host 3?

A. the address of the switch interface that is connected to router interface Fa0/0
B. the address of the switch interface that is connected to router interface Fa0/1
C. the address of the host that is connected to Network A
D. the address of the host that is connected to Network B
E. the address of the router interface Fa0/0
F. the address of the router interface Fa0/1

Answer: E

NEW QUESTION 8

A ProfiNET management system operator is unable to add a ProfiNET Conformance Class B device to a SIMATIC management station. The device is connected to interface FastEthernet1/3. Based on the provided CLI output, which statement is correct?
switch#show profinet lldp Fa1/1 port-003-00000 On Fa1/2 port-004-00000 On Fa1/3 port-005-00000 Off Fa1/4 port-006-00000 Off Fa1/5 port-007-00000 On Fa1/6 port-008-00000 Off Fa1/7 port-009-00000 On Fa1/8 port-010-00000 Off

A. LLDP has been disabled on this switch
B. The connected device is not sending LLDP packets with ProfiNET extensions
C. The port label needs to be changed on interface FastEthernet 1/3 to "port-003-00000"
D. ProfiNET is disabled on this switch

Answer: B

NEW QUESTION 9

You are called at home at 3am by an unskilled machine operator with a suspected network related problem; the controller LEDs are all normal but the output module's communications LED is not on. The operator has verfied the cable is functional and
correctly connected from the communication module to the switch. What is the next check that you ask the unskilled machine operator to make?

A. Log onto the switch using the console port and check that IGMP snooping is enabled
B. Open wireshark and check whether the controller is issuing a forward open instruction to the device
C. Open the diagnostic faceplate on the HMI for the control panel switch and check that the relevant ports are enabled and not in alarm
D. Open Studio 5000 and check the module status tab for the affected output module

Answer: C

NEW QUESTION 10

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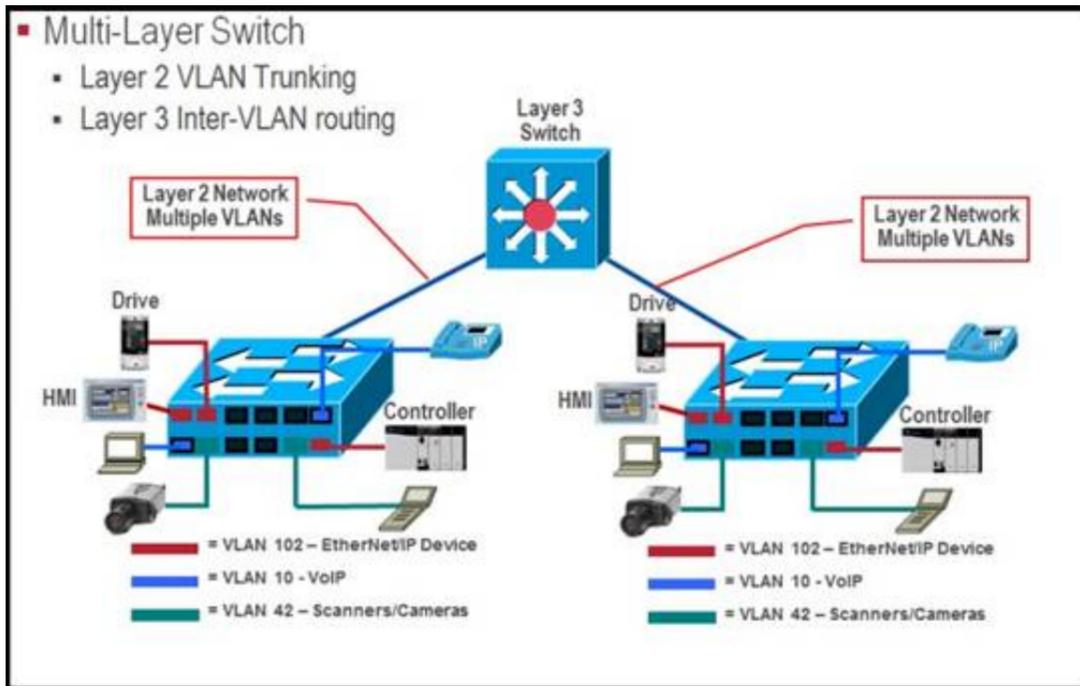
Refer to the exhibit. What are three traffic and interconnection requirements for the devices in the exhibit? (Choose three.)

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 10
Refer to the exhibit.
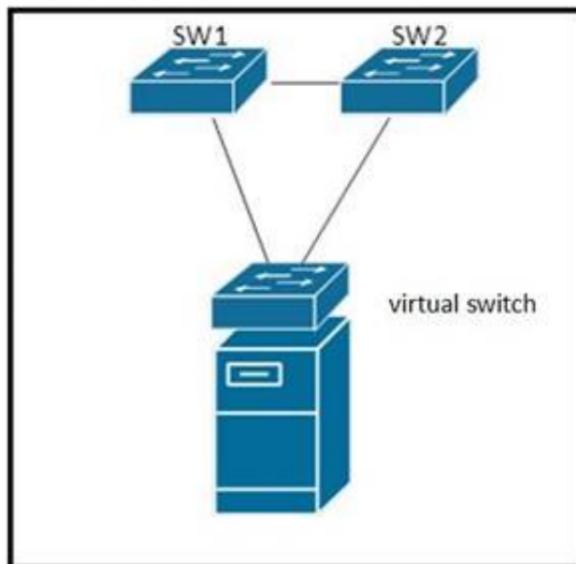
SW1, SW2 and virtual switch are connected in a loop. SW1 and SW2 are standard layer-2 switches. Which loop prevention mechanism is best suited for use within this topology?

A. Per-VLAN Rapid Spanning Tree Protocol+
B. End-Host Mode
C. Multi-chassis EtherChannel
D. BPDU Guard

Answer: B

NEW QUESTION 12
A shutdown in the cookie cutter machine was traced to a broken network cable. What are two reasons that explain why using DLR is an appropriate choice for network resiliency? (Choose two)

A. DLR is designed for single network operation at the machine level
B. Moving to a linear topology will reduce the number of cables and so reduce risk of cable failure
C. DLR is the only resiliency technology that is supported by CIP Safety
D. Layer 2 resiliency protocols like REP and RSTP do not have a fast enough convergence time for motion control
E. Half of the network traffic goes clockwise on the ring and the other half counter- clockwise, reducing by 50% the impact of cable failure

Answer: AD

NEW QUESTION 17
Which best describes the difference between 802.11n and 802.11ac?

A. 802.11ac offers more channels over more bands than 802.11n
B. 802.11ac MCS 1 is about twice as fast as 802.11n MCS1

C. 802.11ac offers more modulation schemes than 802.11n
D. 802.11ac 1SS MCS 9 is allowed over a 20, 40, 80 and 160 MHz channel, while 802.11n 1SS MCS 9 is only allowed over a 20 or 40 MHz channel.

Answer: C

NEW QUESTION 18
Which is an issue with running CIP Motion on a REP network and identifies an alternate resiliency protocol that works for CIP Motion?

A. CIP Motion requires a star topology which is not supported by RE
B. DLR is a suitable resiliency protocol for CIP motion.
C. REP convergence is not fast enoug
D. DLR is a suitable resiliency protocol for CIP motion.
E. CIP Motion requires a star topology which is not supported by RE
F. RPVST+ is a suitable resiliency protocol for CIP motion.
G. REP convergence is not fast enoug
H. RPVST+ is a suitable resiliency protocol for CIP motion.

Answer: B

NEW QUESTION 22
Given a ring topology, which loop prevention mechanism provides the fastest reconvergence time after a link failure?

A. Rapid Per-VLAN Spanning Tree Protocol
B. Resilient Ethernet Protocol
C. Multiple Spanning Tree Protocol
D. Spanning Tree Protocol

Answer: B

NEW QUESTION 27
What security component can be deployed to increase the defense in depth and specifically can be positioned against 'man-in-the-middle' attack?

A. Deploy 802.1AE
B. Deploy 802.1X
C. Deploy 802.1Q
D. Deploy 802.1AX

Answer: A

NEW QUESTION 32
Which describes the relationship between a workgroup bridge?

A. Wired clients of a workgroup bridge can communicate, through the workgroup bridge, with wireless clients of an autonomous or a controller-based access point
B. Wireless clients of a controller-based AP can communicate, through the workgroup bridge, with wireless clients of an autonomous access point
C. Wireless clients of an autonomous access point can communicate with wired clients of a workgroup bridge, but Wireless clients of a controller-based access point cannot communicate with wired clients of a workgroup bridge
D. Wireless clients of a controller-based access point can communicate with wired clients of a workgroup bridge, but Wireless clients of an autonomous access point cannot communicate with wired clients of a workgroup bridge

Answer: A

NEW QUESTION 33
Which three of the following components must be elected before the Spanning Tree Protocol can converge in a switched LAN? (Choose three.)

A. designated ports
B. duplex operating mode
C. fast mode ports
D. root bridge
E. root ports
F. BDPU priority

Answer: ADE

NEW QUESTION 35
Which command globally enables QoS on a Cisco Industrial Ethernet switch?

A. switch(config)#qos enable
B. switch(config)#mls queuing enable
C. switch#enable queuing
D. switch(config)#mls qos

Answer: D

NEW QUESTION 40
Refer to the exhibit.
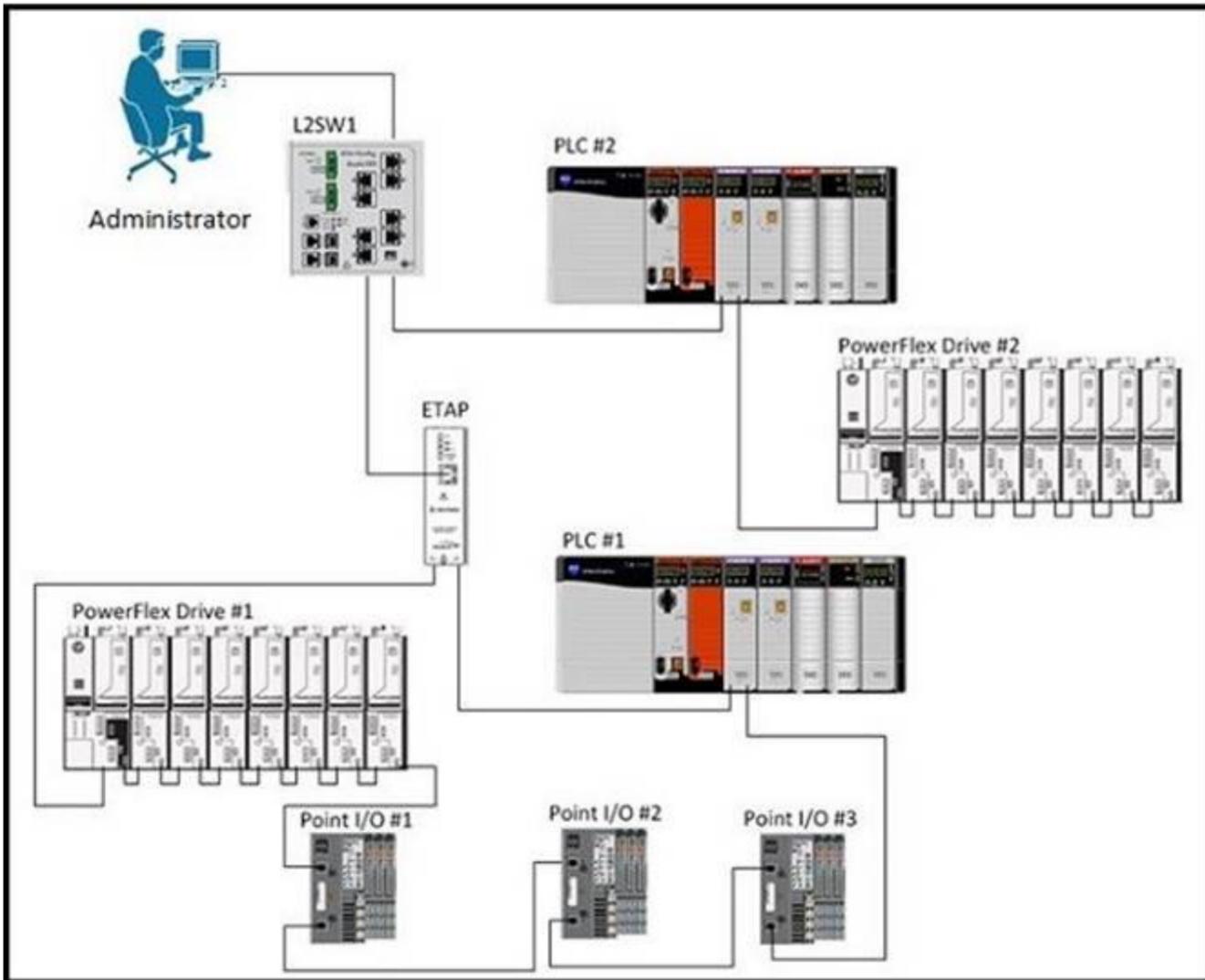
An expansion project added an E-Tap and Device Level Ring to interface FastEthernet1/1 of L2SW1. The administrator has looked at the logs of L2SW1 and found that FastEthernet1/1 was in an error-disabled state.Using command line access on L2SW1, the administrator issued the following commands in configuration 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 43
Your controller has a high performance EtherNet/IP interface with port speed of >30,000 packets per second and 80% spare capacity. A new PowerFlex 753 drive will be added to the system with an RPI of 2ms and has been connected to a switch; you have been asked to set up the switch port. You open the EDS file and see that the drive will support 16 CIP connections and has transmit and receive capacity of 1,000 control packets per second.
What do you set as the storm control pps threshold limit for the port?

A. 16
B. 1,000
C. 2,500
D. 25,000

Answer: C

NEW QUESTION 46
DRAG DROP

Drag the steps on the left and arrange them in the order they should be completed when commissioning an industrial Ethernet switch on the right.	
Wire the switch to the DC power supply	Step 1
Wire the DC power supply	Step 2
Mount the switch on the DIN rail	Step 3
Connect Patch cords	Step 4
Wire the switch ground to common ground	Step 5
Perform Switch configuration	Step 6

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Drag the steps on the left and arrange them in the order they should be completed when commissioning an industrial Ethernet switch on the right.	
Wire the switch to the DC power supply	Mount the switch on the DIN rail
Wire the DC power supply	Wire the switch ground to common ground
Mount the switch on the DIN rail	Wire the DC power supply
Connect Patch cords	Wire the switch to the DC power supply
Wire the switch ground to common ground	Perform Switch configuration
Perform Switch configuration	Connect Patch cords

NEW QUESTION 50
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 52
To ensure ProfiNET Layer 2 Class-of-Service markings from ProfiNET devices are trusted by the switch, which command must be entered on the interface attached to the device?

A. switch(config-if)#mls qos trust cos
B. switch(config-if)#qos trust cos
C. switch(config-if)#profinet cos trust
D. switch(config-if)#trust qos cos

Answer: A

NEW QUESTION 57
DRAG DROP

Drag the steps on the left and arrange them in the order they should be completed when removing an industrial switch from a DIN rail on the right.	
Disconnect all cables and connectors from the front panel of the switch.	Step 1
Pull the bottom of the switch away from the DIN rail and lift the hooks off the top of the DIN rail.	Step 2
Turn off power to the switch.	Step 3
Release the latch from the DIN rail using a flat head screw driver.	Step 4

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Drag the steps on the left and arrange them in the order they should be completed when removing an industrial switch from a DIN rail on the right.	
Disconnect all cables and connectors from the front panel of the switch.	Turn off power to the switch.
Pull the bottom of the switch away from the DIN rail and lift the hooks off the top of the DIN rail.	Disconnect all cables and connectors from the front panel of the switch.
Turn off power to the switch.	Release the latch from the DIN rail using a flat head screw driver.
Release the latch from the DIN rail using a flat head screw driver.	Pull the bottom of the switch away from the DIN rail and lift the hooks off the top of the DIN rail.

NEW QUESTION 61
Refer to the exhibit.
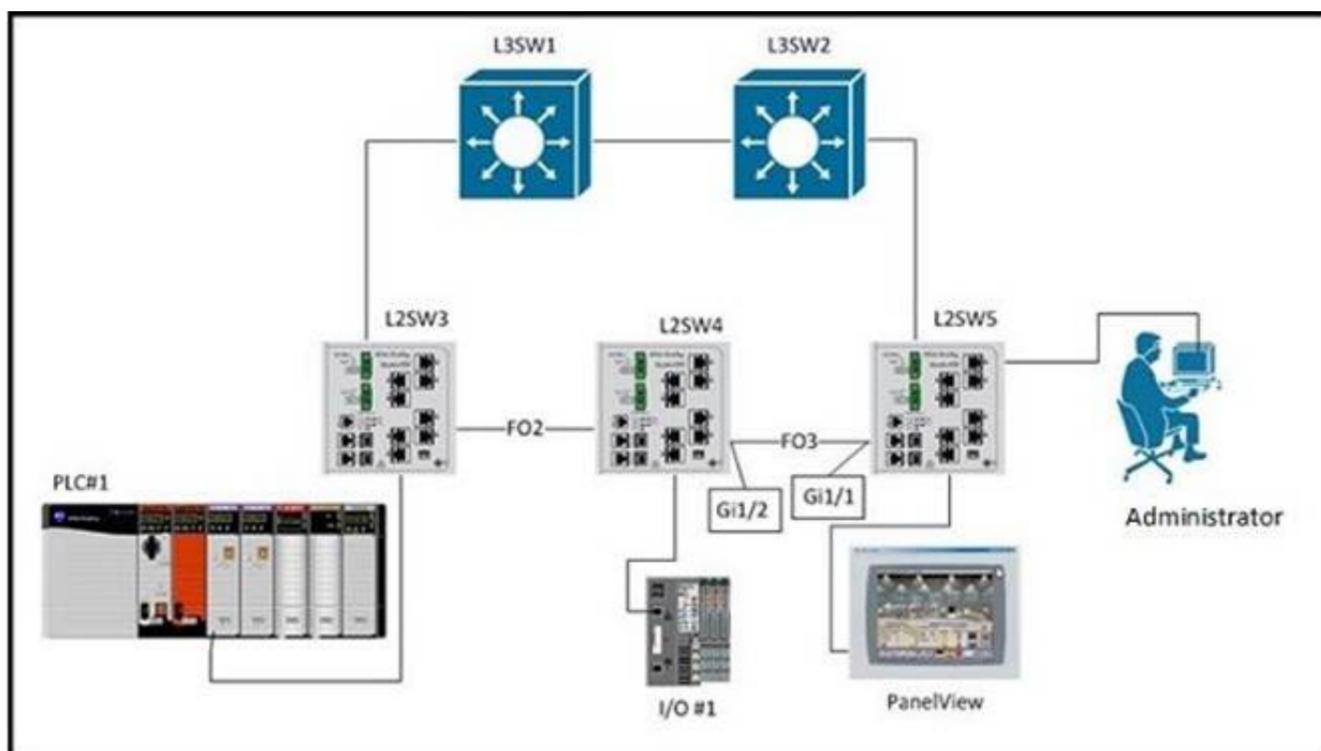
L3SW1 has a spanning-tree priority of 8192 set on VLANs 1, 300, and 301, and these VLANs are configured on and trunked between all switches. Executing the command show spanning-tree blockedports on L2SW5 results in:

L2SW5# show spanning-tree blockedports Name Blocked Interfaces List

-------------------- --------------------------------------

VLAN0001 Gi1/1 VLAN0300 Gi1/1 VLAN0301 Gi1/1

An additional VLAN, VLAN302, is defined on all switches and trunked between them. VLAN302 access ports are set up on each of the switches and PLC#1, I/O#1, and the PanelView are attached. You expect the new VLAN to be listed as blocked on interface GigabitEthernet1/1 of L2SW5 but it is not. The three new devices are able to communicate with each other.

After executing the same command on all switches you see this output on L2SW4: L2SW4# show spanning-tree blockedports

Name Blocked Interfaces List

-------------------- -------------------------------------- VLAN0001 Gi1/2

VLAN0300 Gi1/2 VLAN0301 Gi1/2

Why is VLAN302 forwarding on L2SW5 interface GigabitEthernet 1/1 and L2SW4 interface GigabitEthernet 1/1 and 1/2?

A. VLAN302 is not configured in the VLAN database on L2SW5
B. VLAN302 is not in the allowed list on the L2SW5 interface GigabitEthernet1/1 trunk
C. L2SW4 is the spanning tree root for VLAN 302
D. The FO3 fiber-optic cable between L2SW4 and L2SW5 is damaged

Answer: C

NEW QUESTION 64
If the Link Fault alarm is connected to the minor relay and the FCS Bit Error Rate alarm is connected to the major relay, which commands will create an alarm profile called GigE with the alarms correctly mapped to the minor and major relays?

A. Switch(config)#alarm profile GigE Switch(config-alarm-prof)#alarm 1 4Switch(config-alarm-prof)#relay major 4Switch(config-alarm-prof)#relay minor 1
B. Switch(config)#alarm profile GigE Switch(config-alarm-prof)#alarm 1 3Switch(config-alarm-prof)#relay major 3Switch(config-alarm-prof)#relay minor 1
C. Switch(config)#alarm profile GigE Switch(config-alarm-prof)#alarm 1 3Switch(config-alarm-prof)#relay major 1Switch(config-alarm-prof)#relay minor 3
D. Switch(config)#alarm profile GigE Switch(config-alarm-prof)#alarm 1 4Switch(config-alarm-prof)#relay major 1Switch(config-alarm-prof)#relay minor 4

Answer: A

NEW QUESTION 67
Refer to the exhibit.
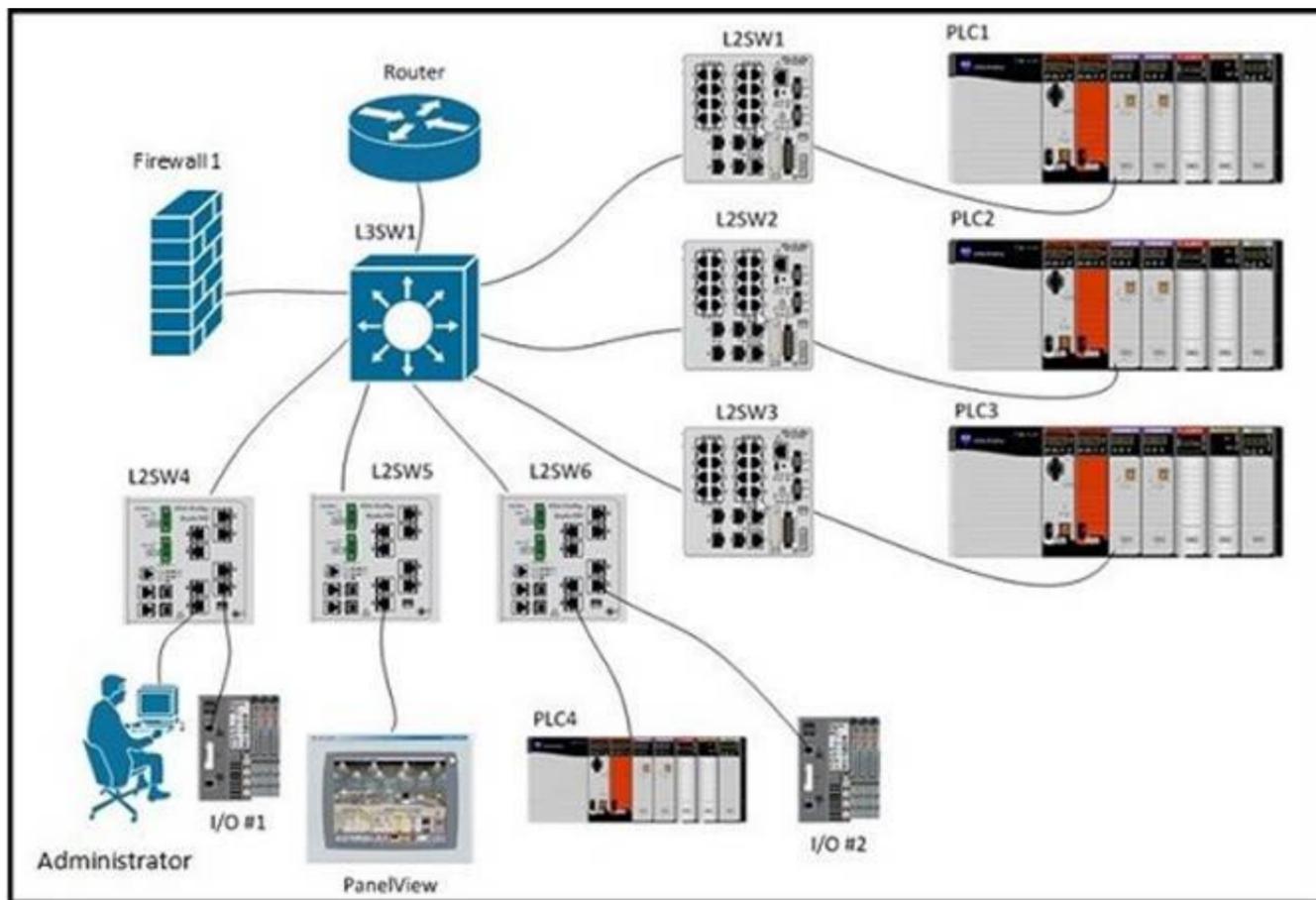
A new device, PanelView, has been added to the network. See the table for device details:

All devices are able to ping their default gateway and all other devices except PanelView. PanelView can only ping its default gateway.

After the administrator has done some investigation they have discovered the following information:

L3SW1# show run interface
interface Vlan1 no ip address shutdown
!
interface Vlan191
ip address 10.10.27.125 255.255.255.192
ip helper-address 165.28.96.96
ip helper-address 165.28.32.235 no ip redirects
standby 191 ip 10.10.27.126
standby 191 priority 120
standby 191 preempt delay minimum 90 no ip route-cache
!
interface Vlan398
ip vrf forwarding mosaic
ip address 10.15.153.203 255.255.255.0
ip helper-address 10.15.154.252
ip helper-address 10.1.0.252
standby 98 ip 10.15.153.202
standby 98 priority 120
standby 98 preempt delay minimum 90
!
interface Vlan399
ip vrf forwarding mosaic
ip address 10.15.154.203 255.255.255.0
ip helper-address 10.1.0.252
ip helper-address 10.1.1.252
standby 99 ip 10.15.154.254
standby 99 priority 120
standby 99 preempt delay minimum 90
!
L3SW1# show ip route connected
10.0.0.0/8 is variably subnetted, 1149 subnets, 17 masks C 10.10.27.64/26 is directly connected, Vlan191
C 10.10.31.254/32 is directly connected, Loopback1
What is preventing PanelView from pinging the other endpoints in the network?

A. Routing isn't enabled on L3SW1 for SVI 398 and SVI 399
B. SVI 191 is in a different routing instance than SVI 398 and SVI 399
C. Firewall1 is blocking pings from PanelView to the other endpoints
D. An access list on L3SW1 is blocking pings from PanelView to the other endpoints

Answer: B

NEW QUESTION 68
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. Both standard controllers must monitor a photocell on this machine. Which IP address is used to transfer this status information?

A. 10.17.104.16
B. 192.168.1.16
C. 239.192.3.16
D. 239.192.254.16

Answer: C

NEW QUESTION 69
EtherNet/IP is an Ethernet implementation of which protocol?

A. CIP
B. Industrial Protocol
C. DeviceNet
D. ControlNet

Answer: A

NEW QUESTION 70
Refer to the exhibit.

Router1
Firewall1
L3SW1
L2SW4   L2SW5   L2SW6
PLC4
Administrator   I/O #1   PanelView   I/O #2
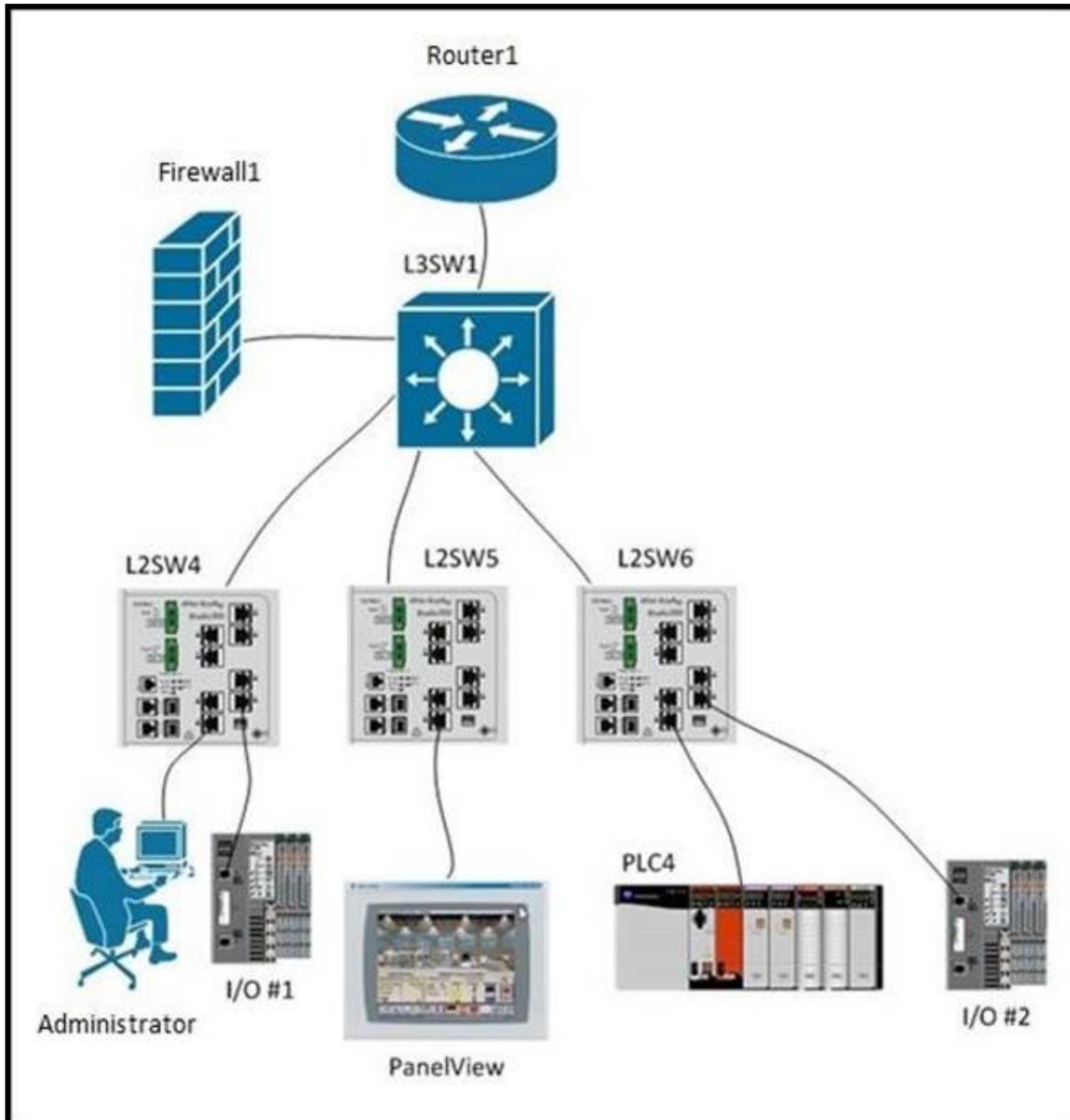
You are required to implement traffic segmentation in the network. See the table for relevant device details:
L2SW4, L2SW5, and L2SW6 are connected to L3SW1 with 802.1Q trunks with VLAN 191 and VLAN 398 allowed on the trunk.
You have the following information from L3SW1:
L3SW1# show run interfaces
interface Vlan1 no ip address shutdown
!
interface Vlan2
ip address 10.2.2.2 255.255.255.248
!
interface Vlan191
ip address 10.10.27.126 255.255.255.192
!
interface Vlan200
ip address 10.20.20.1 255.255.255.248
!
interface Vlan398
ip address 10.15.153.1 255.255.255.0
L3SW1# show ip route
*** Output Omitted ***
10.0.0.0/8 is variably subnetted, 5 subnets, 3 masks C 10.2.2.1/29 is directly connected, Vlan2
C 10.10.27.64/26 is directly connected, Vlan191 C 10.15.153.0/24 is directly connected, Vlan398 C 10.20.20.0/29 is directly connected, Vlan200 S
10.200.200.0/24 [1/0] via 10.20.20.2
S* 0.0.0.0/0 [1/0] via 10.2.2.1
You are required to implement a configuration that will meet the following connectivity requirements:
• The Administrator's Station must have full access to PanelView
• PanelView should have limited access, based on specific TCP ports, to PLC#1 and I/O#1
• The Administrator's Station should have no access to PLC#1 and I/O#1
• PLC#1 and I/O#1 should be able to communicate with each other on any port Which action will allow you to meet the connectivity requirements?

A. Put interface VLAN 191 and interface VLAN 398 into different Virtual Routing and Forwarding (VRF) instances on L3SW1
B. Deploy an inbound ACL on interface VLAN 191 to control the traffic from the Administrator's Station and PanelView to PLC#1 and I/O#1

C. No change is required, the traffic is already limited appropriately by the VLAN segmentation
D. Implement an ACL on Firewall1 to control the traffic flow between VLAN 191 and VLAN 398

Answer: B

NEW QUESTION 75
To correctly integrate a Cisco Industrial Ethernet switch into a ProfiNET management system such as SIMATIC STEP 7 or TIA Portal, which is a mandatory action?

A. Configure an IP address on the ProfiNET VLAN interface
B. The General Station Description (GSD) file must be uploaded from the switch to the management system.
C. Enable Quality of Service (QoS) and ensure the management station interface is trusted
D. Enable SNMP on the switch

Answer: B

NEW QUESTION 80
Exhibit:

Which two statements are correct for a safe wiring installation to the terminal block of the switch or endpoint? (Choose two.)

A. Insert a green ground wire into the terminal block that is marked RT for return.
B. Verify that DC power is live and within 24 VDC voltage range before starting wiring.
C. Verify that the DC power circuit includes an overcurrent protective device that limits the DC current to 5 A.
D. Because this is a low-voltage DC circuit, anyone can install this wiring without electrical training or qualifications.
E. Connect the positive 24 VDC conductor to the V terminal and connect the negative 24 VDC return wire to the RT terminal.
F. A ground wire can optionally be connected to the screw terminal on the front of the switch.

Answer: CE

NEW QUESTION 83
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 84
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