Cisco

Exam Questions 200-601

IMINS2 Managing Industrial Networking for Manufacturing with Cisco Technologies
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
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. 255.255.255.240
E. 255.255.255.248

Answer: D

NEW QUESTION 3
Refer to the exhibit. Which three elements would enable high availability and predictable performance for a motion control application spread across two switches (with video and I/O traffic)? (Choose three)

A. Configure QoS to give PTP traffic the highest priority
B. Fiber optic uplinks
C. Redundant uplinks
D. Configure QoS to give I/O traffic the highest priority
E. Copper uplinks
F. Interconnect the two switches

Answer: ABC

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
Given the CIA triad elements, which ensures first that the data is encrypted and secure, second that the data is trustworthy, and third that the data is accessible by those who need it?

A. CIA
B. ICA
NEW QUESTION 6
You are called upon to troubleshoot connectivity problems to a network device on a production floor. You have used ping and traceroute to verify that you cannot connect to the device from the management network. The network is 209.165.202.128/27 and the device has been given the IP address 209.165.202.158 and mask 255.255.255.224. You have verified that you can reach the device with your computer connected to the same switch as the device. What could be the cause of this problem?

A. The device is set to the wrong subnet mask.
B. The device is set to the wrong IP address.
C. The device has no IP default gateway.
D. The device is connected to a switchport in the wrong VLAN.

Answer: C

NEW QUESTION 7
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 8
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 9
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 10
Which selection is a reason why IGMP snooping should be configured on a switched network?

A. IGMP snooping populates the snooping table with the results of DHCP requests and can be used by Dynamic ARP Inspection to block IP spoofing attacks at Layer-2.
B. IGMP snooping verifies the source IP address of every IPv4 packet to ensure that it hasn't been originated from a port different than its return path.
C. IGMP snooping is used to filter ping requests and results to avoid overflowing the MAC address table of the switch.
D. IGMP snooping allows a Layer-2 switch to limit the transmission of multicast frames to only the ports that have members of the relevant IGMP group.

Answer: D

NEW QUESTION 11
How are I/O timeout and Safety I/O timeout calculated?

A. An I/O connection will timeout based on the lower of 4x RPI or 100m
B. Safety I/O timeout is calculated as 4xRPI.
C. An I/O connection will timeout based on the lower of 3x RPI or 100m
D. Safety I/O timeout is calculated as 3xRPI.
E. An I/O connection will timeout based on the lower of 4x RPI or 150m
F. Safety I/O timeout is calculated as 2xRPI.
G. An I/O connection will timeout based on the lower of 3x RPI or 150m
H. Safety I/O timeout is calculated as 3xRPI.

Answer: A
NEW QUESTION 12
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 13
Refer to the exhibit.

The control system depicted in the exhibit uses VLAN 300 for all of its device ports and PVST is enabled on each switch to switch connection. L2SW4 was inserted between L2SW3 and L2SW5. Links FO2 and FO3 were added and FO1 was disconnected. Prior to the installation of L2SW4, PanelView was able to communicate with PLC#1. After the change, PLC#1 and PanelView are still able to communicate but neither PLC#1 or PanelView are able to communicate with I/O #1.

L2SW4# show run interfaces FastEthernet 1/1 description I/O#1
switchport access vlan 300 switchport mode access spanning-tree portfast
spanning-tree bpduguard enable
L2SW4# show interfaces trunk
Port Mode Encapsulation Status Native vlan Gi1/1 on 802.1q trunking 1 Gi1/2 on 802.1q trunking 1 Port Vlans allowed on trunk Gi1/1 1,3-9, 301-305,400 Gi1/2
1,3-9, 301-305,400 Port Vlans allowed and active in management domain Gi1/1 1,3-9, 301-305,400 Gi1/2 1,3-9, 301-305,400 Port Vlans in spanning tree forwarding state and not pruned Gi1/1 1,3-9, 301-305,400 Gi1/2

Based on the output from the switch, what is preventing I/O#1 from communicating with PLC#1 and PanelView?

A. Interface FastEthernet 1/1 on LWSW4 should be configured as a trunk port
B. The trunks connecting L2SW4 to L2SW3 and L2SW5 have the wrong encapsulation type
C. The trunks connecting L2SW4 to L2SW3 and L2SW5 don't allow VLAN 300 traffic
D. BPDU guard has error-disabled interface FastEthernet 1/1 on LWSW4

Answer: C

NEW QUESTION 14
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 10.10.27.129
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 15
EtherNet/IP is an Ethernet implementation of which protocol?

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

Answer: A
NEW QUESTION 16
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 17
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 18
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