

Cisco 200-601 Exam

Volume: 87 Questions

Question: 1

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

Question: 2

Which option allows an EtherNet/IP I/O device to be safely installed where it is subject to water immersion?

- A. The device is rated IP20 and the power wiring is installed securely to the terminal block.
- B. The device is rated IP67 and a power cordset is used.
- C. The device is rated IP67 and immersed to 10 m.
- D. The device is rated IP20 and immersed to 10 m.

Answer: B

Question: 3

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.

Cisco 200-601 Exam

- 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

Question: 4

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

Question: 5

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

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Answer: C

Question: 6

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

Question: 7

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

Question: 8

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 100ms. Safety I/O timeout is

Cisco 200-601 Exam

calculated as 4xRPI.

B. An I/O connection will timeout based on the lower of 3x RPI or 100ms. Safety I/O timeout is calculated as 3xRPI.

C. An I/O connection will timeout based on the lower of 4x RPI or 150ms. Safety I/O timeout is calculated as 2xRPI.

D. An I/O connection will timeout based on the lower of 3x RPI or 150ms. Safety I/O timeout is calculated as 3xRPI.

Answer: A

Question: 9

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

Question: 10

Which three network mechanisms can be used for securely segmenting an industrial network? (Choose three)

A. VLANs

B. OSPF

C. REP

D. VRFs

E. Firewalls

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F. Spanning-tree

Answer: A,D,E

Question: 11

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

C. ACI

D. CAI

Answer: A

Question: 12

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

Question: 13

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 **

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B. ** Missing **

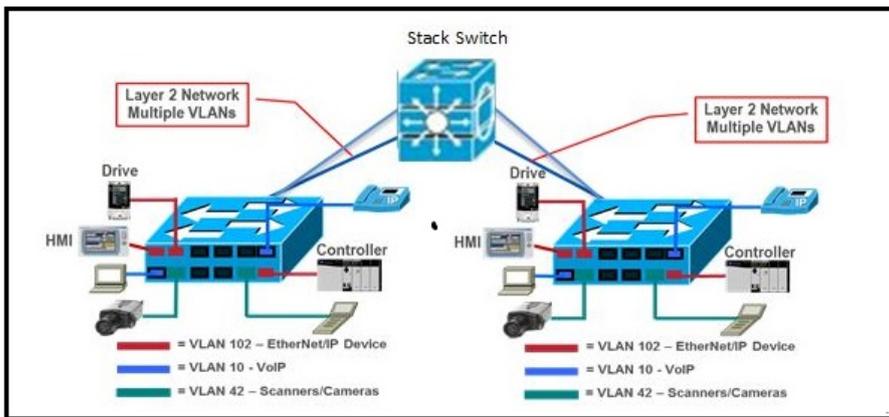
C. ** Missing **

D. ** Missing **

Answer: D

Question: 14

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: A,B,C

Question: 15

Refer to the exhibit.

Cisco 200-601 Exam



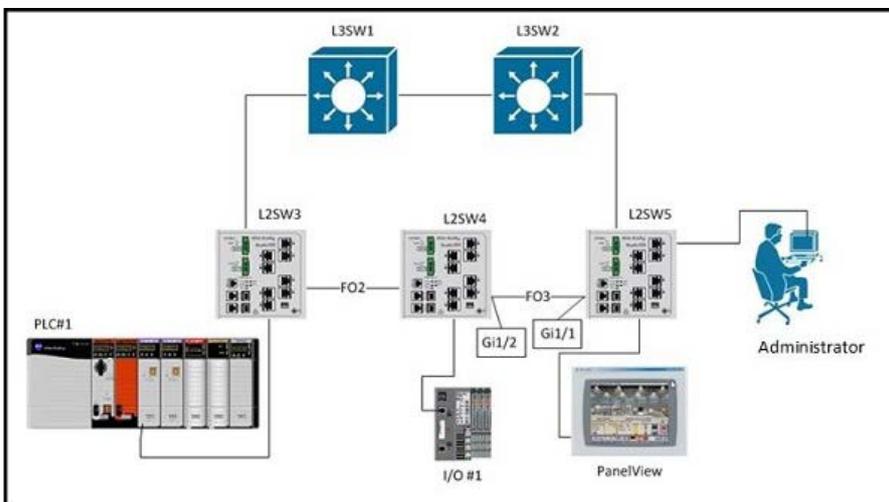
Which two statements are correct for a safe wiring installation to the terminal block of the switch or endpoint? (Choose two.)

- 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: C,E

Question: 16

Refer to the exhibit.



Cisco 200-601 Exam

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

Question: 17

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
```

Cisco 200-601 Exam

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

Question: 18

ProfiNET has been disabled on a Cisco Industrial Ethernet switch. Which CLI command will correctly enable ProfiNET on the switch?

- A. switch(config)#profinet
- B. switch(config-if)#switchport profinet vlan 10
- C. switch(config)#vlan 10 profinet
- D. switch#enable profinet

Answer: A

Question: 19

What can be done to increase the security in depth in an industrial zone?

- A. Add additional disk storage to the IDS server
- B. Add specific SCADA signatures to the IDS server
- C. Create a high availability solution for the IDS server
- D. Place a 'data diode' in front of the IDS server

Answer: B

Cisco 200-601 Exam

Question: 20

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: A,B

Question: 21

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

Question: 22

After commissioning several Stratix 5700 switches in a ring topology, you want to verify the installation against the network logical design. Specifically, you want to verify where the IGMP querier resides. What command can be issued in CLI to display the IP of the querier per VLAN?

- A. switch# show ip igmp snooping querier