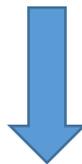


## Cisco CCNP Certification 300-170 Exam



- Vendor: Cisco
- Exam Code: 300-170
- Exam Name: Implementing Cisco Data Center Virtualization and Automation (DCVAI)

**Get Complete Version Exam 300-170 Dumps with VCE and PDF Here**



<https://www.passleader.com/300-170.html>

**QUESTION 1**

Which option must be created to allow one EPG to communicate with another EPG within same tenant?

- A. a filter
- B. a taboo
- C. a subject
- D. a contract

**Answer: D**

**Explanation:**

There may be times when the ACI administrator might need to deny traffic that is allowed by another contract. Taboos are a special type of contract that an ACI administrator can use to deny specific traffic that would otherwise be allowed by another contract.

[https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/Operating\\_ACI/guide/b\\_Cisco\\_Operating\\_ACI/b\\_Cisco\\_Operating\\_ACI\\_chapter\\_01000.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/Operating_ACI/guide/b_Cisco_Operating_ACI/b_Cisco_Operating_ACI_chapter_01000.html)

**QUESTION 2**

You are performing VMM integration between ACI and VMware with vDS. You place a Cisco UCS Fabric Interconnect between the leaf and the ESXi hosts running on UCSB series. Which is a valid configuration if using VMM integration with "On Demand" resolution?

- A. In the interface policy group, disable LLDP, enable Cisco Discovery Protocol, and then select MAC pinning on the Fabric Interconnects.
- B. In the interface policy, enable LLDP, Cisco Discovery Protocol, and LACP.
- C. In the interface pokey group, disable LLDP, disable Cisco Discovery Protocol, and then select active in the LACP pokey.
- D. Configure LLDP, Cisco Discovery Protocol, and LACP policies under global policies to match the interface policies.

**Answer: C**

**QUESTION 3**

You are deploying L4-L7 services within Cisco Application Centric Infrastructure. You need to modify an existing service graph. Where do you configure this?

- A. under the provider EPG
- B. on a connector within a service graph
- C. on a function profile within a service graph
- D. on a terminal node within a service graph

**Answer: A**

**Explanation:**

<http://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/white-paper-c11-734298.html>

**QUESTION 4**

A system administrator checks the endpoint database and discovers MAC addresses that belong to inactive local nodes. Which description of the retention of the MAC addresses for the local nodes is true?

- A. After five minutes, the inactive nodes are removed from the local endpoint database of the leaf.
- B. The local database is cleared only when the leaf reboots.

- C. The leaf sends three ARP requests after an aging period.  
The MAC addresses are stored to the local endpoint database as long as the devices respond to the requests.
- D. After 15 minutes, the inactive nodes are removed from the local endpoint database of the leaf.

**Answer: A**

**QUESTION 5**

Refer to the exhibit. Which option describes the results of running the configuration on a Cisco Nexus 9000 Series Switch?

```
switch# configure terminal
switch(config)# scheduler schedule name Backup
switch(config-job)# job name backup-cfg
switch(config-job)# time daily 2:00
switch(config-job)# end
switch(config)#
```

- A. A schedule job named Backup backs up the configuration to a file named backup-cfg.
- B. A schedule job named backup-cfg runs daily at 2:00.
- C. A schedule job named Backup runs twice daily.
- D. A schedule job named Backup runs daily at 2 00 and save the configuration to a file named backup-cfg.

**Answer: D**

**QUESTION 6**

What is the retention period for remotely attached endpoint?

- A. 3 minutes
- B. 15 minutes
- C. 5 minutes
- D. 10 minutes

**Answer: A**

**Explanation:**

For remotely attached endpoints, the switch ages out the entries after three minutes of inactivity. The remote endpoint is immediately reentered in the table if it becomes active again.

[https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/aci-fundamentals/b\\_ACI-Fundamentals/b\\_ACI-Fundamentals\\_chapter\\_010010.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/aci-fundamentals/b_ACI-Fundamentals/b_ACI-Fundamentals_chapter_010010.html)

**QUESTION 7**

Which action occurs first when a device that has the POAP feature boots and cannot find the startup configuration?

- A. The device locates a DHCP server
- B. The device enters POAP mode
- C. The device obtains the IP address of a TFTP server
- D. The device installs software image and a configuration file

**Answer: B**

**Explanation:**

PowerOn Auto Provisioning (POAP) automates the process of upgrading software images and installing configuration files on devices that are being deployed in the network for the first time.

When a device with the POAP feature boots and does not find the startup configuration, the device enters POAP mode, locates a DHCP server, and bootstraps itself with its interface IP address, gateway, and DNS server IP addresses. The device also obtains the IP address of a TFTP server or the URL of an HTTP server and downloads a configuration script that enables the switch to download and install the appropriate software image and configuration file.

[https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/fundamentals/configuration/guide/b\\_Cisco\\_Nexus\\_9000\\_Series\\_NX-OS\\_Fundamentals\\_Configuration\\_Guide\\_7x/b\\_Cisco\\_Nexus\\_9000\\_Series\\_NX-OS\\_Fundamentals\\_Configuration\\_Guide\\_7x\\_chapter\\_0100.pdf](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/fundamentals/configuration/guide/b_Cisco_Nexus_9000_Series_NX-OS_Fundamentals_Configuration_Guide_7x/b_Cisco_Nexus_9000_Series_NX-OS_Fundamentals_Configuration_Guide_7x_chapter_0100.pdf)

#### **QUESTION 8**

You have a Cisco Nexus Series Switch. Which two descriptions of how incoming packets are handled by the VRF instance are true? (Choose two.)

- A. The route policy defines which VRF that Cisco NX-OS uses for incoming packets.
- B. By default, Cisco NX-OS uses the VRF of the outgoing interface.
- C. The policy in the management VRF defines which VRF that Cisco NX-OS uses for incoming packets.
- D. By default, Cisco NX-OS uses the VRF of the incoming interface.
- E. The policy in the default VRF defines which VRF that Cisco NX-OS uses for incoming packets.

**Answer: BE**

#### **QUESTION 9**

Which option are L4-L7 devices registered as on a Cisco APIC?

- A. one virtual device
- B. a cluster
- C. one physical device
- D. more virtual devices

**Answer: B**

#### **QUESTION 10**

Which configuration is needed to extend the EPG out of the Cisco ACI fabric?

- A. Create external bridged networks
- B. Statically assign a port to EPG
- C. Apply a policy between the internal and the external EPG
- D. Extend the tenant subnet of the bridge domain out of the fabric

**Answer: B**

#### **QUESTION 11**

Which two method does a Cisco APIC supports to connect to the management IP address of a service appliance? (Choose two.)

- A. out-of-band connectivity to devices in device clusters by using the management VLAN D in band connectivity to devices in device clusters by using the VRF of the tenant
- B. out-of-band connectivity to devices in device clusters by using the VRF of the tenant
- C. out-of-band connectivity to devices in device clusters by using the management VRF of the tenant
- D. in band connectivity to devices in device clusters by using the management VRF of the tenant

**Answer: AD**

**QUESTION 12**

Which management interface is selected by the Cisco APIC by default if an in band management interface and an out-of-band management interface exist?

- A. In-band is preferred
- B. The first configured interface is selected
- C. The interface that has the highest priority is selected
- D. Out-of band is preferred

**Answer: D**

**QUESTION 13**

You create a dynamic VLAN pool to be used for Virtual Machine Manager integration. On which two other components must you ensure the VLANs in the pool are allowed? (Choose two.)

- A. AVS
- B. Cisco Nexus 1000V
- C. The intermediate switch
- D. vS witch
- E. The Cisco UCS blade system

**Answer: BD**

**QUESTION 14**

Which two benefits come from using a Cisco Nexus 7000 Series Switch in VDC mode? (Choose two.)

- A. par-VDC kernel resource allocation
- B. per-VDC administration
- C. per-VDC load balancing for Cisco Ether Channel
- D. per-VDC forwarding information base
- E. per-VDC fault isolation

**Answer: DE**

**QUESTION 15**

Which Cisco APIC health score will be affected if an EPG does not have a Bridge Domain associated with it?

- A. spine health
- B. leaf health
- C. tenant health
- D. pod health

**Answer: C**

**Explanation:**

[http://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/Operating\\_ACI/guide/b\\_Cisco\\_Operating\\_ACI/b\\_Cisco\\_Operating\\_ACI\\_chapter\\_01010.pdf](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/Operating_ACI/guide/b_Cisco_Operating_ACI/b_Cisco_Operating_ACI_chapter_01010.pdf)

**QUESTION 16**

You have a VSM that experiences a failure. Which two options are results of the failure? (Choose two.)

- A. CLI access to the virtual switch continues to work without any interruption
- B. VEM stops working
- C. Traffic forwarding stops for a short period of time and then continues to work normally
- D. Traffic forwarding continues to work without any interruption
- E. VMware vMotion stops working

**Answer: BD**

**QUESTION 17**

What occurs when the Cisco ACI fabric receives multi destination traffic?

- A. The traffic is forwarded as broadcast traffic
- B. The traffic is forwarded as multicast traffic
- C. The traffic is suppressed
- D. The traffic is forwarded as unicast traffic

**Answer: B**

**Explanation:**

[http://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/aci-fundamentals/b\\_ACI-Fundamentals/b\\_ACI-Fundamentals\\_chapter\\_010010.pdf](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/aci-fundamentals/b_ACI-Fundamentals/b_ACI-Fundamentals_chapter_010010.pdf)

**QUESTION 18**

You plan to implement virtual switching with service blades in a large environment that will have 12 VSBs. Which model of the Cisco Nexus Cloud Cisco Service Platform should you use?

- A. 1110-X
- B. 1010-X
- C. 1110-S
- D. 1010

**Answer: A**

**QUESTION 19**

You deploy a Cisco Nexus 1000V Series Switch that has VXLAN support. You must ensure that baremetal servers and virtual servers can communicate. Which technology must you implement?

- A. Cisco Nexus Cloud Service Platform
- B. A-FGX
- C. SGT
- D. VM-FEX

**Answer: D**

**QUESTION 20**

You have a new Cisco Nexus 7000 Series Switch that has only the default VDC configured. Which option describes the default behavior of the physical interfaces on the switch?

- A. The physical ports are divided into eight groups and the first group is assigned to the default VDC
- B. All of the physical ports on the switch are assigned to the default VDC

- C. None of the physical ports on the switch are assigned
- D. The physical ports are divided into six groups and the first group is assigned to the default VDC

**Answer: C**

**QUESTION 21**

You discover that a VLAN is not enabled on a leaf port even though on EPG is provisioned. Which cause of the issue is most likely true?

- A. Cisco Discovery protocol is enabled in the interface policy group
- B. A VLAN pool is not defined under the associated physical domain
- C. The VLAN is not specified in a contract
- D. An interface policy must define the VLAN pool

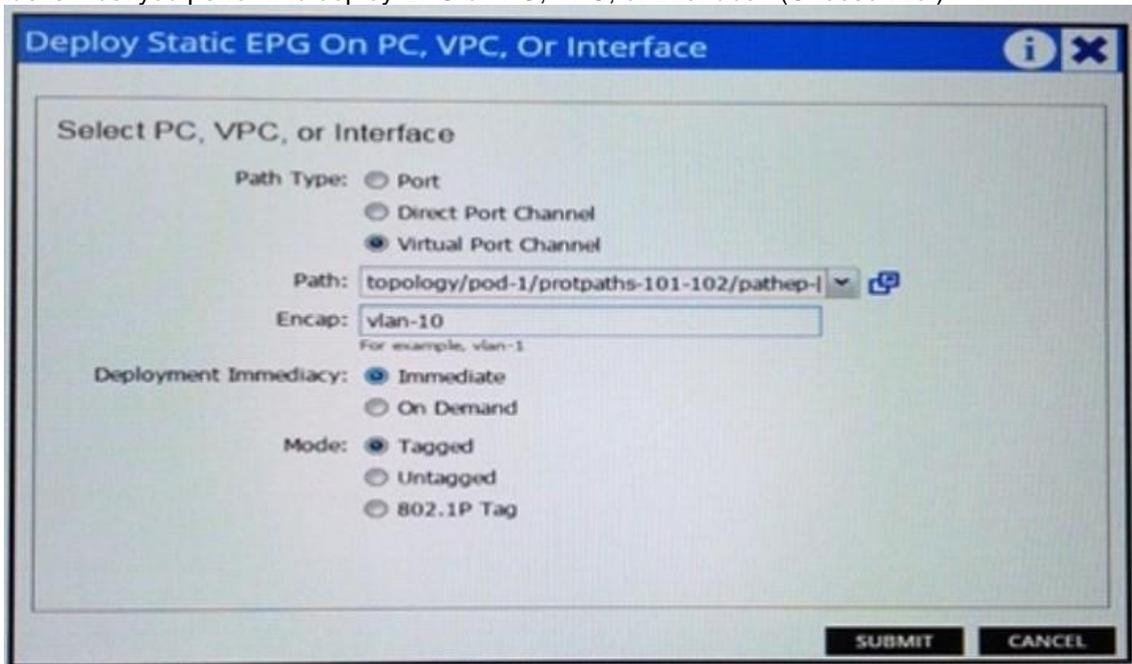
**Answer: B**

**Explanation:**

[http://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/basic-config/b\\_ACI\\_Config\\_Guide/b\\_ACI\\_Config\\_Guide\\_chapter\\_0101.pdf](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/basic-config/b_ACI_Config_Guide/b_ACI_Config_Guide_chapter_0101.pdf)

**QUESTION 22**

Refer to the exhibit. You perform the configuration as shown in the exhibit. Which two additional tasks must you perform to deploy EPG on PC, VPC, or Interface? (Choose two.)



- A. Add the border leaf node to the Layer 2 outside connection.
- B. Create an Attachable Access Entity Profile.
- C. Create a Layer 2 outside connection.
- D. Create a physical domain and a VLAN pool for the physical domain, and associate the physical domain to the EPG WEB.
- E. Extend the VLAN represented by EPG out pi the Cisco ACI fabric.

**Answer: BD**

**QUESTION 23**

Which two protocols are encapsulated in FCoE? (Choose two.)

- A. iSCSI
- B. Fibre Channel
- C. CIFS
- D. DNSF
- E. SCSI

**Answer: BE**

**QUESTION 24**

Which Layer 3 protocol is used within the ACI fabric?

- A. OpenFlow
- B. EIGRP
- C. OSPF
- D. IS-IS

**Answer: D**

**QUESTION 25**

In an ACI Fabric, which two statements about contexts are true? (Choose two.)

- A. A VRF defines a Layer 3 address domain.
- B. A tenant can contain multiple VRFs.
- C. In traditional networking, a VRF is equivalent to a VDC.
- D. A tenant can contain only a single VRF.
- E. A VRF defines a Layer 2 address domain.

**Answer: AB**

**QUESTION 26**

Which two are benefits of Cisco Unified Fabric? (Choose two.)

- A. SNMPv3 strong authentication
- B. reduced cabling
- C. zone port distribution
- D. consolidation of LAN and SAN over a common transport
- E. native AES-256 encryption of data in flight

**Answer: BD**

**QUESTION 27**

Which statement is correct about the number of available QoS system classes in FCoE?

- A. It's hard-set and cannot be disabled
- B. It's configurable, with an upper limit of 16
- C. It's hard-set but cannot disable best-effort and Fibre Channel
- D. It's hard-set but can disable all but one class

E. It's configurable with an upper limit of eight

**Answer: C**

**QUESTION 28**

You have a Cisco Nexus 1000V Series Switch. When must you use the system VLAN?

- A. to use VMware vMotion
- B. to perform an ESXi iSCSI boot
- C. to perform a VM iSCSI boot
- D. to perform an ESXi NFS boot

**Answer: A**

**QUESTION 29**

Which option must be defined to apply a configuration across a potentially large number of switches in the most scalable way?

- A. a configuration policy
- B. a group policy
- C. an interface policy
- D. a switch profile

**Answer: C**

**QUESTION 30**

Which two options are benefits of using the configuration synchronization feature? (Choose two.)

- A. Supports the feature command
- B. Supports existing session and port profile functionality
- C. Can be used by any Cisco Nexus switch
- D. Merges configurations when connectivity is established between peers and supports FCoE in vPC topologies

**Answer: AC**

**QUESTION 31**

The behavior of which packet type can be controlled by selecting unicast mode or flood mode in a bridge domain?

- A. ARP
- B. Unknown unicast
- C. LLDP
- D. CDP

**Answer: B**

**QUESTION 32**

Which option must be configured to allow SNMP communications and traffic?

- A. an out-of-band bridge domain
- B. an out-of-band contract
- C. an out-of-band policy

D. an out-of-band management interface

**Answer: B**

**QUESTION 33**

When connecting to an external Layer 3 network, which two dynamic routing protocols can be used? (Choose two.)

- A. RIPv2
- B. EIGRP
- C. VXLAN
- D. IS-IS
- E. OSPF

**Answer: AB**

**QUESTION 34**

Why should you configure DHCP relay for Virtual Machine Manager integration?

- A. to create VTEP VMK interfaces on each host for the OpFlex control channel
- B. to provide IP addresses to ESXi hosts
- C. to provide IP addresses to virtual hosts through the VXLAN infrastructure
- D. to ensure that virtual hosts have the same address when they are moved by using VMware vMotion

**Answer: B**

**QUESTION 35**

Which tool can you use to convert XML/JSON REST code to Python code?

- A. Postman
- B. Cobra
- C. Arya
- D. API Inspector

**Answer: C**

**QUESTION 36**

Which feature of a Cisco Nexus 1000V Servers Switch allows you to deploy traffic steering for a virtual infrastructure?

- A. SOT
- B. PVLAN
- C. ACL
- D. vPath

**Answer: D**

**QUESTION 37**

Which statement about RBAC user roles on a Cisco Nexus switch is true?

- A. If a user belongs to two roles, a permit access in one role takes priority over a deny access in the other role.
- B. The predefined roles can be changed by the network-admin.

- C. If a user belongs to two roles, the user can execute only the commands that are permuted by both of the roles.
- D. On a Cisco Nexus 7000 Series Switch, roles are shared between VOCs.

**Answer: A**

**QUESTION 38**

Which Cisco technology addresses management and performance concerns in a data center by unifying physical and virtual switch management?

- A. VSO
- B. SVM
- C. VM-FEX
- D. AVS

**Answer: C**

**QUESTION 39**

Which protocol is used as the link-state routing protocol for a DFA fabric?

- A. VXLAN
- B. EIGRP
- C. Fabric Path IS-IS
- D. OSPF

**Answer: C**

**QUESTION 40**

You have a contract between in-band and out-of-band EPGs. Which two descriptions of this contention are true? (Choose two.)

- A. Filters apply in the incoming direction only
- B. Both EPGs must be in one VRF
- C. Management statistics are available
- D. Shared services for CPU-bound traffic are supported
- E. The configuration supports Layer 2

**Answer: CD**

**QUESTION 41**

You are trouble shooting node discovery issues by using the acidiag fmvread command. Which description of the node status when the CLI output shows a status of Discovering is true?

- A. The node is decommissioned.
- B. The node ID is configured, but not discovered yet.
- C. The node is discovered, but an IP address is not assigned yet.
- D. The node is discovered, but the node ID policy is not configured yet.

**Answer: B**

**QUESTION 42**

Which two options are purposes of a device package? (Choose two.)

- A. to identify a set of network or service functions required by the application
- B. to provide a leaf and spine devices with operating systems and firmware
- C. to provide a Cisco APIC with information about device specifics
- D. to render the services required by a graph
- E. to manage a class of service devices

**Answer: CE**

**QUESTION 43**

You have a network that has three subnets. You migrate the network to a Cisco ACI fabric. You want to bridge the three subnets without changing the IP addresses of the endpoints. The default gateway for the endpoints does not sit on the ACI fabric. Which action must you take to keep the three subnets in a single Hood domain?

- A. Create multiple bridge domains that have unicast routing disabled within the same EPO Connect the existing subnets to the bridge domains.
- B. Create one bridge domain that has unicast routing disabled and connect the existing subnets to the bridge domain.
- C. Create one bridge domain that has unicast routing enabled and create corresponding subnets inside the bridge domain Connect the existing network to the bridge domain.
- D. Create multiple bridge domains that have unicast routing enabled within the same EPG Create corresponding subnets inside the bridge domains and connect the existing network to the bridge domains.

**Answer: C**

**QUESTION 44**

Which statement accurately describes Cisco ACI flooding mode for unknown unicast traffic?

- A. By default unknown unicast traffic floods the bridge domain
- B. By default, all unknown unicast traffic is dropped
- C. A hardware proxy must be used for flooding mode
- D. By default, an unknown unicast traffic is sent to the spine proxy

**Answer: D**

**QUESTION 45**

Refer to the exhibit. You are verifying connectivity within a leaf device. You attempt to connect to a destination server in VLAN 17, and you then run the show mac address-table command as shown. Why does the show mac address-table output show a different VLAN?

```

CCNP_LEAF1# show mac address-table
Legend:
 * - primary entry, G - Gateway MAC, (R) - Routed MAC, O - Overlay MAC
 age - seconds since last seen, + - primary entry using vPC Peer-Link,
 (T) - True, (F) - False

```

VLAN	MAC Address	Type	age	Secure	NTFY	Ports/SWID.SSID.LID
* 14	0045.8834.16f6	dynamic	-	F	F	eth1/11
* 14	0045.8834.b4b4	dynamic	-	F	F	eth1/11

- A. The wrong AEP is attached to the leaf ports.
- B. The VLAN configuration on the leaf switch is incorrect.
- C. The VLAN ID shown is used for identification and internal mapping within the ACI leaf.
- D. When traffic appears, the Cisco ACI marks ports with VLAN 17.

**Answer: A**

**QUESTION 46**

You deploy AVS for Virtual Manager integration and you add a host that has five VMNICs. You must use VXLAN to maximize the load balancing of the traffic inside the fabric. How many VMKNICs must you add?

- A. 2
- B. 3
- C. 4
- D. 8

**Answer: C**

**QUESTION 47**

You define the port profiles, and then you assign the 10Gig port profile to interface. Which option is the result of this configuration?

- A. The speed of the interface is 10 Gbps.
- B. The speed of the interface is 1 Gbps.
- C. The interface uses the maximum speed available for the physical interface.
- D. The speed of the interface is 100 Gbps.

**Answer: C**

**QUESTION 48**

What occurs when you make an interface a member of an existing VRF in Cisco NX-OS?

- A. The a VRF-Aware services start to be filtered
- B. You are prompted to enter an IP address assignment
- C. All of the Layer 3 configurations are removed
- D. The state of the interface is changed to down

**Answer: C**

**Explanation:**

<https://supportforums.cisco.com/document/133711/vrf-configuration-and-verification-nexus-7000>

**QUESTION 49**

A unicast packet enters into the front panel port of a leaf switch. The leaf switch performs a forwarding lookup for the packet destination IP address and has a miss result Assuming default configuration, which statement about what happens next is true?

- A. The packet is sent to the forwarding proxy in the spine switch.
- B. The packet is dropped on the leaf switch.
- C. The packet is sent to another leaf switch within the same bridge domain.
- D. The packet is flooded across the entire fabric because it is an unknown unicast.

**Answer: D**

**QUESTION 50**

Which statement about POAP licensing correctly describes temporary licensing?

- A. Temporary licensing is invoked by using the license grace-period command.

- B. Temporary licensing is enabled automatically and is valid for 60 days.
- C. Temporary licensing is invoked by using the license Install command.
- D. Temporary licensing is enabled automatically and is valid for 30 days.

**Answer: D**

**QUESTION 51**

Which two parameters are part of the Cisco APIC first time setup and must be configured? (Choose two.)

- A. the fabric node vector configuration
- B. the LLDP adjacency configuration
- C. the out-of-band management configuration
- D. the cluster configuration
- E. the APIC LLDP configuration

**Answer: CE**

**QUESTION 52**

You are configuration a group of web servers and you create a contract that uses TCP port 80. Which action allows an external Layer 3 cloud to initiate communication with the EPG that contains the web servers?

- A. Configure the EPG as a consumer and L3Out as provider of the contract.
- B. Configure OSPF to exchange routes between the L3Out and EPG.
- C. Create a taboo contract and apply it to the EPG.
- D. Configure the EPG as a provider and L3Out as consumer of the contract.

**Answer: D**

**QUESTION 53**

You must apply a contract to all of the EPGs in a tenant. The solution must ensure that the contract is also applied to any new EPGs that are added to the tenant. Which option must you uses?

- A. the QUI
- B. the vzAny managed object
- C. the REST API
- D. a Python script

**Answer: B**

**QUESTION 54**

Which type of discovery is used in the Cisco ACI fabric for automatic discovery?

- A. ACI
- B. Cisco APIC
- C. DHCP
- D. LLDR

**Answer: A**

**QUESTION 55**

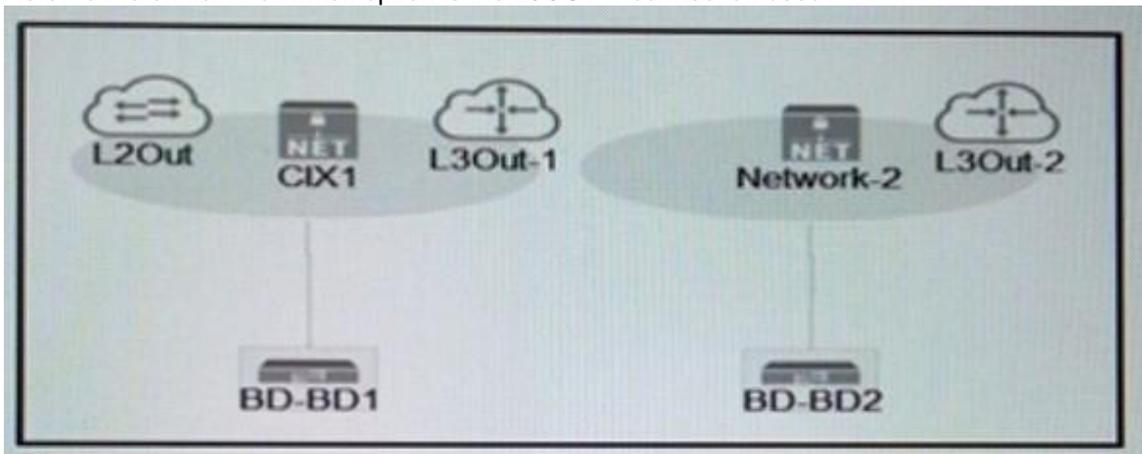
Which type of Embedded Event Manager component pars events with one or more actions to troubleshoot or recover from the event?

- A. monitor
- B. action
- C. policy
- D. event

**Answer: C**

**QUESTION 56**

Refer to the exhibit. For which option is the L3OUT-1 connection used?



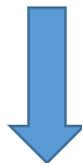
- A. bridge domain BD2
- B. private network CIX1
- C. private network Network-2
- D. bridge domain BD1

**Answer: B**

**QUESTION 57**

.....

**Get Complete Version Exam 300-170 Dumps with VCE and PDF Here**



<https://www.passleader.com/300-170.html>