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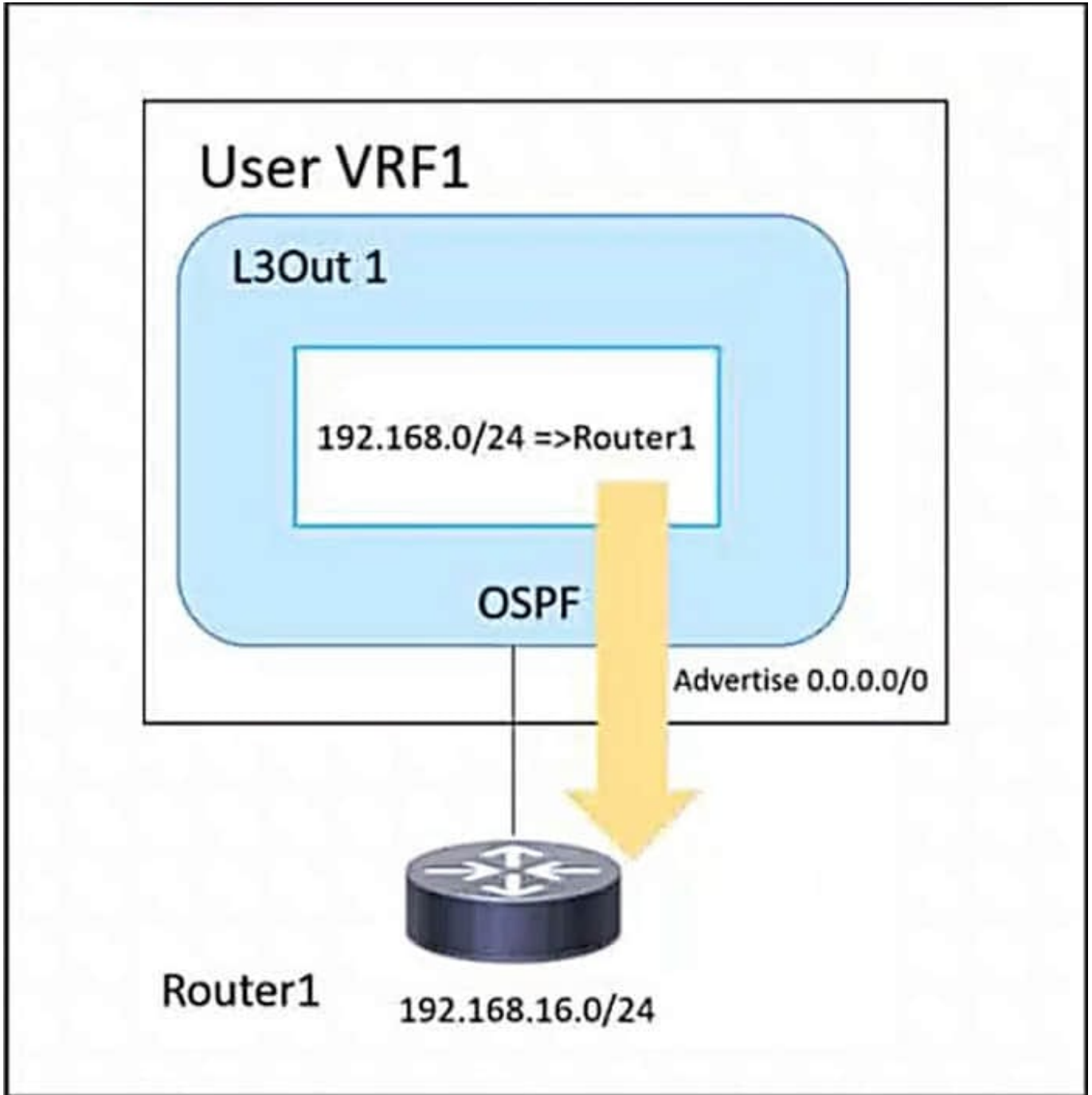
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QUESTION 1

Refer to the exhibit.

An engineer applies an OSPF L3Out between a Cisco ACI fabric and an external router. Router1 must receive a default route from the Cisco ACI via OSPF. Which action ensures that the ACI fabric is the Layer 3 gateway for Router1?

A. A. Configure a default route leak policy in the L3Out.

B. Apply an OSPF interface policy in the OSPF interface profile.

C. Associate the external EPG with the appropriate contract.

D. Include an OSPF route summarization policy in external EPG.

Correct Answer: A

For external connections to the fabric that only require a default route, there is support for originating a default route for OSPF, EIGRP, and BGP L3Out connections. If a default route is received from an external peer, this route can be

redistributed out to another peer following the transit export route control as described earlier in this article. A default route can also be advertised out using a Default Route Leak policy. This policy supports advertising a default route if it is

present in the routing table or it always supports advertising a default route. The Default Route Leak policy is configured in the L3Out connection.

When creating a Default Route Leak policy, follow these guidelines:

For BGP, the Always property is not applicable. When configuring the Scope property, choose Outside. For OSPF, the scope value Context creates a type-5 LSA while the Scope value Outside creates type-7 LSA. For EIGRP, when choosing

the Scope property, you must choose Context.

QUESTION 2

An administrator must migrate the vSphere Management VMkernel of all ESXi hosts in the production cluster from the standard default virtual switch to a VDS that is integrated with APIC in a VMM domain. Which action must be completed in this scenario?

A. The Management VMkernel EPG resolution must be set to Pre-Provision.

B. The administrator must create an in-band VMM Management EPG before performing the migration.

C. The administrator must set the Management VMkernel BD resolution immediacy to On-Demand.

D. The VMkernel Management BD must be located under the Management Tenant.

Correct Answer: A

QUESTION 3

As part of a migration, legacy non-ACI switches must be connected to the Cisco ACI fabric. All non-ACI switches run per-VLAN RSTP. After the non-ACI switches are connected to Cisco ACI, the STP convergence caused a microloop and significant CPU spike on all switches. Which configuration on the interfaces of the external switches that face the Cisco ACI fabric resolves the problem?

A. BPDU guard

B. aggressive STP timers

C. BPDU filtering

D. STP type link shared

Correct Answer: D

QUESTION 4

How is an EPG extended outside of the ACI fabric?

A. Create an external bridged network that is assigned to a leaf port.

B. Create an external routed network that is assigned to an EPG.

C. Enable unicast routing within an EPG.

D. Statically assign a VLAN ID to a leaf port in an EPG.

Correct Answer: D

Reference: https://www.dclessons.com/l2-external-network-with-aci

QUESTION 5

A recent set of changes by a Cisco ACI administrator corrupted the APIC cluster. The ACI engineer must restore the configuration of the previous day. The APIC nodes in the cluster can communicate but fail to connect with other networks. The administrator plans to overwrite the entire existing configuration with the backup configuration. Which set of actions accomplishes this task?

A. Restore using the last configuration on the factory-reset APIC. Use an import policy set to Best-effort.

B. Roll back the configuration using a local snapshot. Use an import policy set to Atomic Replace.

C. Roll back the configuration using a local snapshot. Use an import policy set to Best-effort Merge.

D. Restore the configuration imported from an FTP server. Use an import policy set to Atomic.

Correct Answer: B

Atomic Replace - overwrites existing configuration with imported configuration data. Any objects in the existing configuration that do not exist in the imported configuration are deleted. Objects are deleted from the existing configuration that have children in the existing configuration but do not have children in the incoming imported configuration. For example, if an existing configuration has two tenants, solar and wind, but the imported backed up configuration was saved before the tenant wind was created, tenant soar is restored from the backup but tenant wind is deleted.

Rollback is when a previous configuration snapshot is used to replace the current APIC configuration. This can be done on the granularity of a snapshot file. This means that a single tenant can be moved back to a previous configuration while the other tenants keep their current configuration state. This is often referred to as partial rollback. When all of the configuration files for a particular version are used to replace the current APIC configuration, this is referred to as a full rollback.

QUESTION 6

A customer must deploy three Cisco ACI based data centers. Each site must be separated from the others. Which characteristic of Cisco ACI Multi-Pod makes it unsuitable for this deployment?

A. creates a virtual pod in the remote location

B. requires all pods to share the same Cisco APIC cluster

C. has distance and scale limitations

D. places leaf switches in the remote site that belong to the same fabric as at the headquarters site

Correct Answer: B

The Cisco® Application Centric Infrastructure (Cisco ACI™) Multi-Pod solution is an evolution of the stretched-fabric use case. Multiple pods provide intensive fault isolation in the control plane along with infrastructure cabling flexibility. As the name indicates, it connects multiple Cisco Application Policy Infrastructure Controller (APIC) pods using a Layer 3 interpod network (IPN).

Note: Pod spine switches cannot be connected back to back. IPN supports only Open Shortest Path First (OSPF) connectivity between the IPN and the spine switches. Though each pod consists of its own spine and leaf switches, all the pods reside within the same fabric and are managed by a single APIC cluster. This approach provides a single management and policy domain across all pods for end-to-end policy enforcement. In the data plane, the Multi-Pod solution uses Multiprotocol Border Gateway Protocol (MP-BGP) Ethernet Virtual Private Network (EVPN) connectivity over the IPN between the spine switches from each pod for communication using Virtual Extensible LAN (VXLAN) encapsulation.

QUESTION 7

A customer migrates a legacy environment to Cisco ACI. A Layer 2 trunk is configured to interconnect the two environments. The customer also builds ACI fabric in an application-centric mode.

Which feature should be enabled in the bridge domain to reduce instability during the migration?

A. Set Multi-Destination Flooding to Flood in BD.

B. Enable Flood in Encapsulation.

C. Set Multi-Destination Flooding to Flood in Encapsulation.

D. Disable Endpoint Dataplane Learning

Correct Answer: C

Quite a few engineers have asked whether multiple EPGs associated with a single bridge domain can be extended to non-ACI switches outside a fabric. The answer is yes. Among the options for Multi Destination Flooding, administrators can choose Flood in Encapsulation at the bridge domain level to isolate flooding to each associated EPG.

In the context of migrations, the use case many proponents of this feature have in mind is to consolidate multiple VLANs and subnets into a small number of bridge domains.

QUESTION 8

In a Cisco ACI Multi-Site fabric, the Inter-Site BUM Traffic Allow option is enabled in a specific stretched bridge domain. What is used to forward BUM traffic to all endpoints in the same broadcast domain?

A. ingress replication on the spines in the source site

B. egress replication on the destination leaf switches

C. egress replication on the source leaf switches

D. ingress replication on the spines in the destination site

Correct Answer: D

the Cisco ACI Multi-Site design uses the ingress replication function on the spine nodes of the source site to replicate BUM traffic to all the remote sites on which that bridge domain is stretched. https://www.cisco.com/c/en/us/solutions/coll ateral/data-center-virtualization/application-centric-infrastructure/white-paper-c11-739609.html

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QUESTION 9

Which class of ACI object is presented in this output?

A. Contract

B. Bridge Domain

C. Tenant

D. Endpoint

Correct Answer: A

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/4-x/openstack/ACI-Installation-Guide-for-Red-Hat-Using-OSP13-Director/m-configuringironic-for-openstack.html

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QUESTION 10

A network engineer must backup the PRODUCTION tenant. The configuration backup should be stored on the APIC using a markup language and contain all secure information. Which export policy must be used to meet these requirement?

A.

Name:	Export-Tenant-Production
Description:	optional
Format:	json **xml**
Start Now:	**Yes** No
Target DN:	uni/PRODUCTION
Snapshot:	☐
Scheduler:	select a value ⌄
Export Destination:	rmt-backup-01 ⌄ ⤢
Modify Global AES Encryption Settings:	**Enabled** ⬁

B.

Name:	Export-Tenant-Production
Description:	optional
Format:	json **xml**
Start Now:	**Yes** No
Target DN:	uni/tn-PRODUCTION
Snapshot:	☐
Scheduler:	select a value ⌄
Export Destination:	rmt-backup-01 ⌄ ⤢
Modify Global AES Encryption Settings:	**Enabled** ⬁

C.

Name:	Export-Tenant-Production
Description:	optional
Format:	json **xml**
Start Now:	**Yes** No
Target DN:	uni/PRODUCTION
Snapshot:	☑
Scheduler:	select a value ⌄
Modify Global AES Encryption Settings:	**Enabled** ⬁

D.

Name:	Export-Tenant-Production
Description:	optional
Format:	json **xml**
Start Now:	**Yes** No
Target DN:	uni/tn-PRODUCTION
Snapshot:	☑
Scheduler:	select a value ⌄
Modify Global AES Encryption Settings:	**Enabled** ⬁

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

Snapshots created for a single tenant do not include configurations from anywhere else in the fabric

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QUESTION 11

A network engineer must configure a Cisco ACI system to detect network loops for untagged and tagged traffic. The loop must be detected and stopped by disabling an interface within 4 seconds. Which configuration must be used?

A.
Name: Export-Tenant-Production
Description: optional
Format: json xml
Start Now: Yes No
Target DN: uni/PRODUCTION
Snapshot: ☐
Scheduler: select a value
Export Destination: rmt-backup-01
Modify Global AES Encryption Settings: **Enabled**

B.
Name: Export-Tenant-Production
Description: optional
Format: json xml
Start Now: Yes No
Target DN: uni/tn-PRODUCTION
Snapshot: ☐
Scheduler: select a value
Export Destination: rmt-backup-01
Modify Global AES Encryption Settings: **Enabled**

C.
Name: Export-Tenant-Production
Description: optional
Format: json xml
Start Now: Yes No
Target DN: uni/PRODUCTION
Snapshot: ☑
Scheduler: select a value
Modify Global AES Encryption Settings: **Enabled**

D.
Name: Export-Tenant-Production
Description: optional
Format: json xml
Start Now: Yes No
Target DN: uni/tn-PRODUCTION
Snapshot: ☑
Scheduler: select a value
Modify Global AES Encryption Settings: **Enabled**

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 12

A Cisco ACI fabric contains a tenant called Prod. User_1 must have written access to tenant Prod and full access to the fabric access policy. Which set of actions must be taken to meet these requirements?

A. Associate User_1 to tenant Prod. Associate the security domain to the distinguished name of the fabric access policy. Create RBAC for the distinguished name of security domain.

B. Associate User_1 to the distinguished name of the fabric access policy. Associate the security domain to RBAC. Create RBAC for the distinguished name of User_1.

C. Associate User_1 to the fabric access policy. Associate the security domain to the fabric access policy. Create RBAC for the distinguished name of tenant Prod.

D. Associate User_1 to the security domain. Associate the security domain to tenant Prod. Create RBAC for the distinguished name of fabric access policy.

Correct Answer: D

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/5-x/security/cisco-apic-security-configuration-guide-50x/m-restricted-access-security-domains.html

QUESTION 13

Which new construct must a user create when configuring in-band management?

A. VLAN pool

B. management contract

C. management tenant

D. bridge domain

Correct Answer: A

inb (Bridge domain pre existing). No Vlan pool and ideally one of the first steps required. MGMT tenant exists. Management contract is the last "to do". Construct literally means build blocks. Hence nothing can be built with thr VLANS.

QUESTION 14

Which routing protocol is supported between Cisco ACI spines and IPNs in a Cisco ACI Multi-Pod environment?

A. OSPF

B. IS-IS

C. BGP

D. EIGRP

Correct Answer: A

QUESTION 15

A customer must upgrade the Cisco ACI fabric to use a feature from the new code release. However, there is no direct path from the current release to the desired one. Based on the Cisco APIC Upgrade/Downgrade Support Matrix, the administrator must go through one intermediate release.

Which set of steps must be taken to upgrade the fabric to the new release?

A. 1. Upgrade the APICs to an interim release.

2.

 Upgrade the switches to an interim release.

3.

 Upgrade the APICs to the targeted release.

4.

 Upgrade the leaf and spine switches to the targeted release.

B. 1. Upgrade the APICs to an interim release and then switches to an interim release.

2.

 When all switches are operational, upgrade leaf switches to the targeted release.

3.

 Upgrade the spine switches to the targeted release.

4.

 Upgrade the APICs to the targeted release.

C. 1. Upgrade the APICs to an interim release.

2.

Upgrade the leaf switches directly to the targeted release.

3.

Upgrade the spine switches directly to the targeted release.

4.

Upgrade the APICs to the targeted release.

D. 1. Upgrade the APICs directly to the targeted release.

2.

Upgrade the switches to an interim release.

3.

When all switches are operational, upgrade the leaf switches to the targeted release.

4.

Upgrade the spine switches to the targeted release.

Correct Answer: A

Get files from Cisco onto a HTTP/SCP server and then uploaded to APIC Get APICs upgraded Wait for things to stabilise. Get Leaf/Spines upgraded Wait for things to stabilise.

When upgrading or downgrading to a release that does not have a direct path from your current release, you must upgrade or downgrade all the APICs and switches to an intermediate supported release to which there is a direct path, then upgrade or downgrade from that release to your desired release. Sometimes, you must move through multiple intermediate releases before being able to get to your desired release, upgrading or downgrading both the APICs and switches to the same release each time.

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