

# 300-550<sup>Q&As</sup>

Designing and Implementing Cisco Network Programmability

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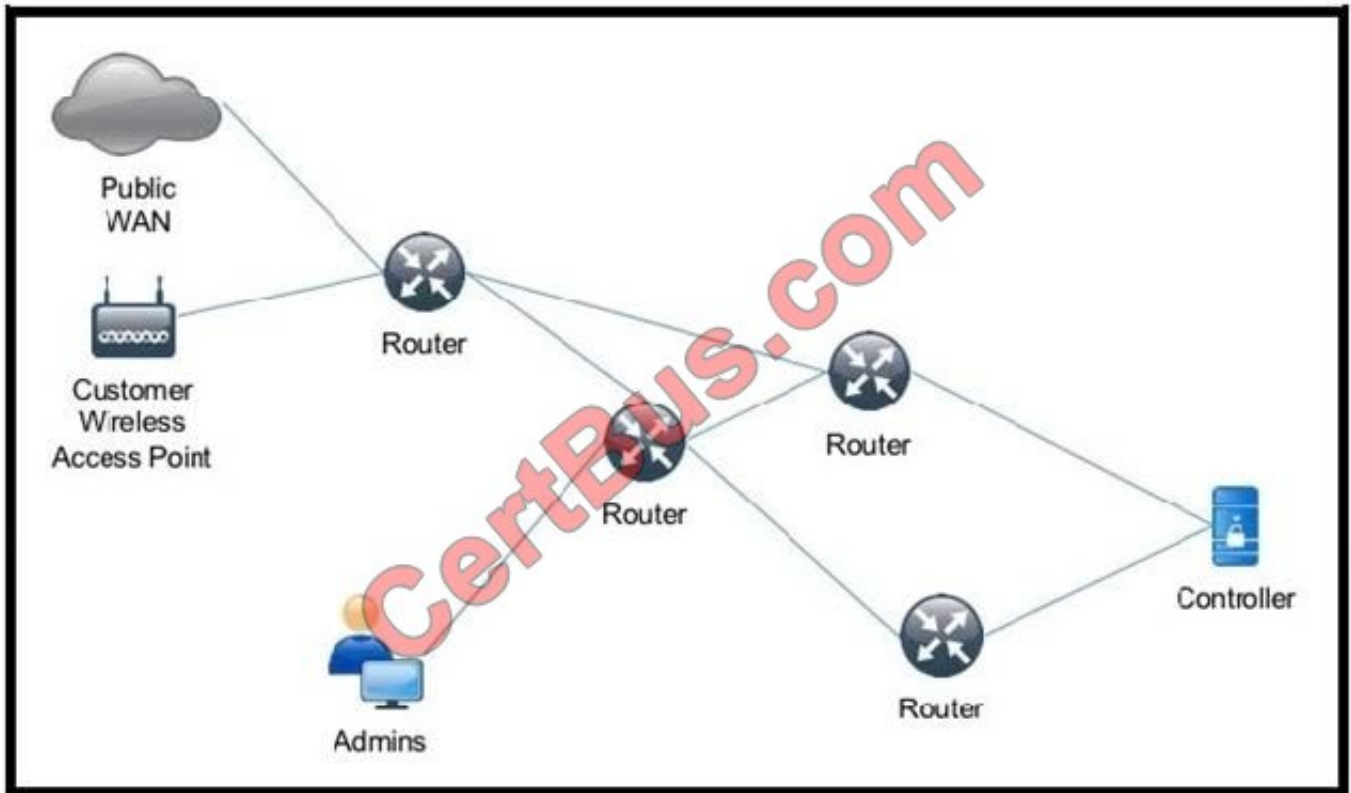
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**QUESTION 1**



Refer to the exhibit. Which action effectively secures the controller?

- A. Enable HTTP to HTTPS redirect.
- B. Require complex passwords.
- C. Use NUT on the router before the controller.
- D. Blacklist the public WAN.
- E. Whitelist the Admins network and block all others.

Correct Answer: A

**QUESTION 2**

You have routers in a simulation, and you have a controller that exists on another virtual machine on the same VMware ESXi host. Which two VIRT facilities can you use to create a common subnet between them? (Choose two.)

- A. a Linux server acting as a jump-host
- B. a Layer 3 external network
- C. shared flat management network

- D. the management LXC (Linux Container)
- E. a Layer 2 external network

Correct Answer: CE

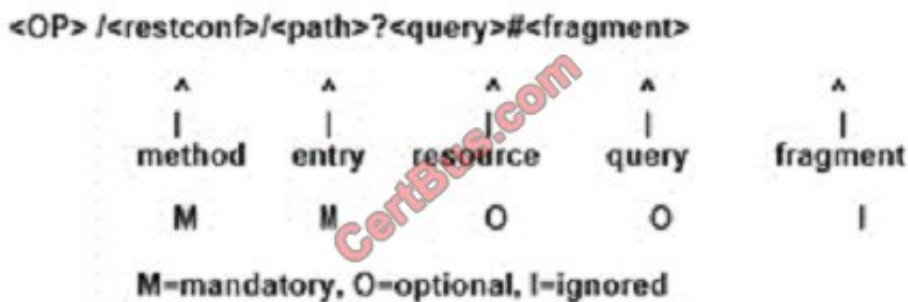
### QUESTION 3

**<operation>/<api-entry>/<path>?<query>#<fragment>**

Refer to the exhibit. Which two URI entries are optional and functional in the RESTCONF URI structure that is shown? (Choose two.)

- A. path
- B. query
- C. operation
- D. fragment
- E. api-entry

Correct Answer: AB



Accordingly, correct options should be path and query.

Reference: <https://tools.ietf.org/html/draft-ietf-netconf-restconf-13#section-5.1>

### QUESTION 4

Which two data representation formats are used in RESTCONF? (Choose two.)

- A. HTML
- B. YAML

C. HML

D. GML

E. ASN.1

F. JSON

Correct Answer: CF

Secure | <https://learninglabs.cisco.com/lab/04-introducing-the-restconf-protocol/step/1>

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## RESTCONF

an HTTP-based protocol that provides a programmatic interface for accessing data defined in YANG, using the database concepts defined in the Network Configuration Protocol (NETCONF).

**RFC 8040**

As powerful and great an improvement over SNMP that NETCONF is, there are many that desire a REST API interface for network devices. Rather than develop an entirely new protocol and data model, the IETF has extended NETCONF into RESTCONF.

### RESTCONF Details

- [RFC 8040](#) - January 2017
- Uses HTTP(S) for transport
- Tightly coupled to the YANG data model definitions
- Provides JSON or XML data formats

### QUESTION 5

Which two queries are supported to access objects within the ACI Management Information Tree? (Choose two.)

A. DN query

B. fabric query

C. RN query

D. class query

E. property query

Correct Answer: AD

Visore is a read-only management information tree (MIT) browser. It enables distinguished name (DN) and class queries with optional filters.

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

Fundamentals/b\_ACI\_Fundamentals\_BigBook\_chapter\_01001.pdf

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### QUESTION 6

Which ACI object is used to divide two applications that use the same IP address?

- A. bridge domain
- B. EPG
- C. VRF
- D. tenant

Correct Answer: A

One or more bridge domains are associated with a context. All of the endpoints within the Layer 3 domain must have unique IP addresses because it is possible to forward packets directly between these devices if the policy allows it. A tenant can contain multiple contexts.

Reference: [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\\_010001.html](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_010001.html)

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### QUESTION 7

How is a service ticket used when constructing a Cisco APIC-EM API request?

- A. to identify the service type
- B. to identify a service on the controller
- C. to determine the request type
- D. as a security token

Correct Answer: D

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### QUESTION 8

Refer to the exhibit. Which effect does the parameter ?session=test have in this VIRL API call?

```
curl -X POST -u guest:guest -- header "Content-Type/text/xml; charset=UTF-8" --  
data @API.virl http://virl-host:19399/simengine/rest/launch?session=test
```

- A. The API call is parsed and validated by VIRL, but no simulation is started.
- B. The topology file "APIvirl" is validated for proper structure content.
- C. The simulation is started in a special "test" mode that protects it from adversely affecting other simulations

D. The simulation is started with the name "test".

Correct Answer: A

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#### QUESTION 9

Which protocol does NX-API use to transport the payload?

- A. FTP
- B. SSH
- C. TLS
- D. HTTP/HTTPS

Correct Answer: D

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/6-x/programmability/guide/b\\_Cisco\\_Nexus\\_9000\\_Series\\_NX-OS\\_Programmability\\_Guide/b\\_Cisco\\_Nexus\\_9000\\_Series\\_NXOS\\_Programmability\\_Configuration\\_Guide\\_chapter\\_0101.pdf](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/6-x/programmability/guide/b_Cisco_Nexus_9000_Series_NX-OS_Programmability_Guide/b_Cisco_Nexus_9000_Series_NXOS_Programmability_Configuration_Guide_chapter_0101.pdf)

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#### QUESTION 10

Which tool streamlines the development of network applications?

- A. Java Runtime Engine
- B. software development kit
- C. command-line interface
- D. General Public License
- E. package management system

Correct Answer: B

Streamlines software development and integration effort required for advanced imaging and vision applications. Imagine software developers could run their entire imaging / vision project on the (more familiar) CPU environment, while the code automatically gets translated and optimized on the (more power-efficient) DSP - With the CEVA Application Developer Kit (ADK) it is now possible.

Reference: <http://www.ceva-dsp.com/Application-Developer-Kit>

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#### QUESTION 11

The Cisco APIC REST API supports which two methods? (Choose two.)

- A. POST

- B. PATCH
- C. PUT
- D. OPTIONS
- E. GET
- F. RESET

Correct Answer: AE

The API supports HTTP POST, GET, and DELETE request methods

Reference [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/rest\\_cfg/2\\_1\\_x/b\\_Cisco\\_APIC\\_REST\\_API\\_Configuration\\_Guide/b\\_Cisco\\_APIC\\_REST\\_API\\_Configuration\\_Guide\\_chapter\\_01.html#concept\\_21284AACF779429A8E6EEED11D143716](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/rest_cfg/2_1_x/b_Cisco_APIC_REST_API_Configuration_Guide/b_Cisco_APIC_REST_API_Configuration_Guide_chapter_01.html#concept_21284AACF779429A8E6EEED11D143716)

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#### QUESTION 12

Which two technologies are Cisco recommended for securing NETCONF-based or RESTCONF-based automation solutions? (Choose two.)

- A. ACLs that are deployed to secure the management plane of the network device
- B. ACLs that are deployed to the data plane at the edge of the network
- C. an out-of-band management network that uses VRFs for a segmented routing domain
- D. SSH and TLS whitelisting
- E. a routing policy that filters routes in the management network

Correct Answer: AD

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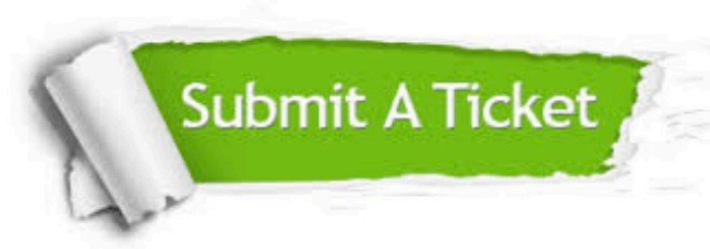
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