Cisco

Exam Questions 350-901

Developing Applications using Cisco Core Platforms & APIs

NEW QUESTION 1
A developer has created an application based on customer requirements. The customer needs to run the application with the minimum downtime. Which design approach regarding high-availability applications, Recovery Time Objective, and Recovery Point Objective must be taken?

A. Active/passive results in lower RTO and RP
B. For RPO, data synchronization between the two data centers must be timely to allow seamless request flow.
C. Active/passive results in lower RTO and RP
D. For RPO, data synchronization between the two data centers does not need to be timely to allow seamless request flow.
E. Active/active results in lower RTO and RP
F. For RPO, data synchronization between the two data centers does not need to be timely to allow seamless request flow.
G. Active/active results in lower RTO and RP
H. For RPO, data synchronization between the two data centers must be timely to allow seamless request flow.

Answer: A

NEW QUESTION 2
A cloud native project is being worked on in which all source code and dependencies are written in Python, Ruby, and/or JavaScnpt. A change in code triggers a notification to the CI/CD tool to run the CI/CD pipeline.
Which step should be omitted from the pipeline?

A. Deploy the code to one or more environments, such as staging and/or production.
B. Build one of more containers that package up code and all its dependencies.
C. Compile code.
D. Run automated tests to validate the correctness.

Answer: A

NEW QUESTION 3
Which two statements are considered best practices according to the 12-factor app methodology for application design? (Choose two.)

A. Application code writes its event stream to stdout.
B. Application log streams are archived in multiple replicated databases.
C. Application log streams are sent to log indexing and analysis systems.
D. Application code writes its event stream to specific log files.
E. Log files are aggregated into a single file on individual nodes.

Answer: AD

NEW QUESTION 4
How should a web application be designed to work on a platform where up to 1000 requests per second can be served?

A. Use algorithms like random early detection to deny excessive requests.
B. Set a per-user limit (for example, 5 requests/minute/user) and deny the requests from the users who have reached the limit.
C. Only 1000 user connections are allowed; further connections are denied so that all connected users can be served.
D. All requests are saved and processed one by one so that all users can be served eventually.

Answer: D

NEW QUESTION 5
Which two situations are flagged by software tools designed for dependency checking in continuous integration environments, such as OWASP? (Choose two.)

A. publicly disclosed vulnerabilities related to the included dependencies
B. mismatches in coding styles and conventions in the included dependencies
C. incompatible licenses in the included dependencies
D. test case failures introduced by bugs in the included dependencies
E. buffer overflows to occur as the result of a combination of the included dependencies

Answer: AE

NEW QUESTION 6
A network operations team is using the cloud to automate some of their managed customer and branch locations. They require that all of their tooling be ephemeral by design and that the entire automation environment can be recreated without manual commands. Automation code and configuration state will be stored in git for change control and versioning. The engineering high-level plan is to use VMs in a cloud-provider environment then configure open source tooling onto these VMs to poll, test, and configure the remote devices, as well as deploy the tooling itself.
Which configuration management and/or automation tooling is needed for this solution?

A. Ansible
B. Ansible and Terraform
C. NSO
D. Terraform
E. Ansible and NSO

Answer: B

NEW QUESTION 7

Which two statements about a stateless application are true? (Choose two.)

A. Different requests can be processed by different servers.
B. Requests are based only on information relayed with each request.
C. Information about earlier requests must be kept and must be accessible.
D. The same server must be used to process all requests that are linked to the same state.
E. No state information can be shared across servers.

Answer: AB

NEW QUESTION 8
Which statement about microservices architecture is true?

A. Applications are written in a single unit.
B. It is a complex application composed of multiple independent parts.
C. It is often a challenge to scale individual parts.
D. A single faulty service can bring the whole application down.
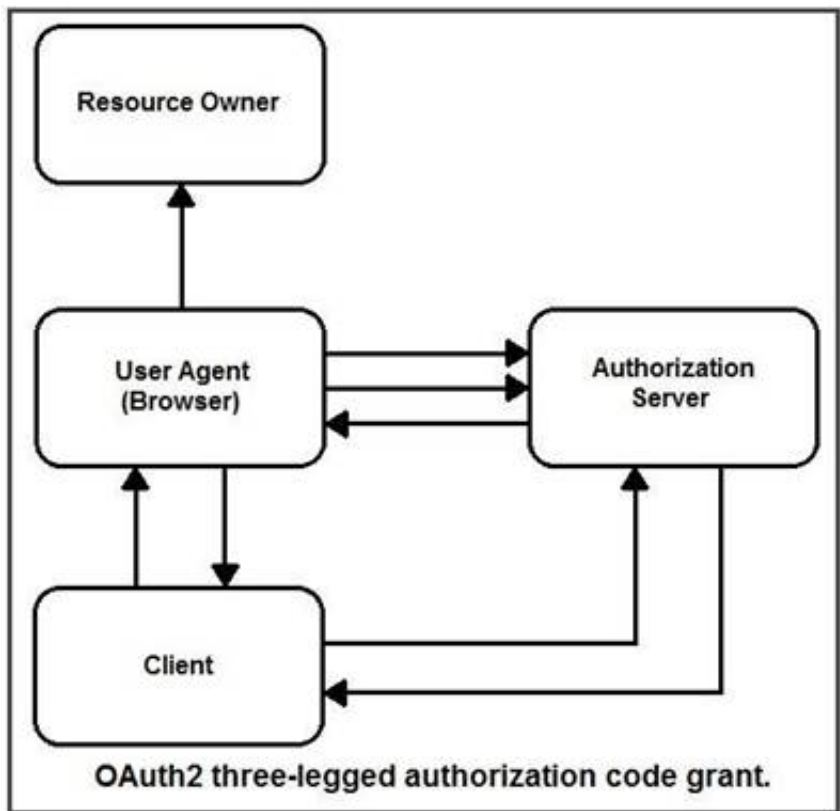
Answer: B

NEW QUESTION 9
Which two data encoding techniques are supported by gRPC? (Choose two.)

A. XML
B. JSON
C. ASCII
D. ProtoBuf
E. YAML

Answer: BE

NEW QUESTION 10
DRAG DROP

OAuth2 three-legged authorization code grant.

Refer to the exhibit. Drag and drop the steps from the left into the correct order of operation on the right for a successful OAuth2 three-legged authorization code grant flow.
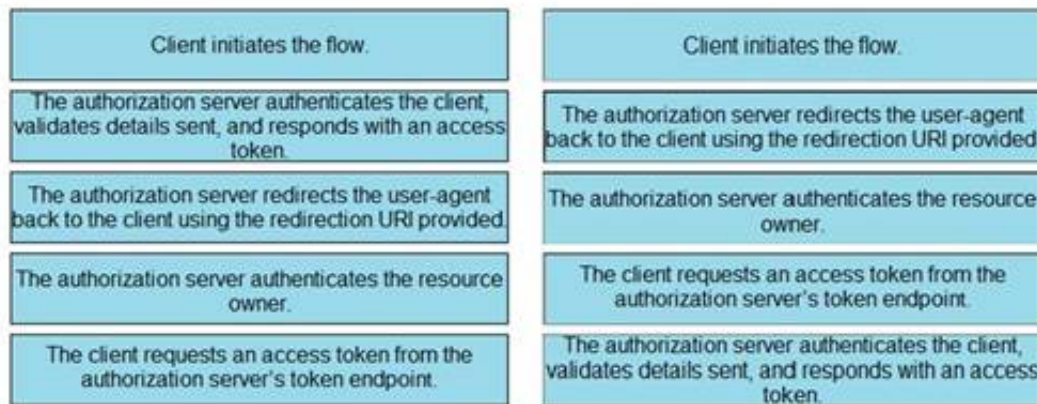Select and Place:

Answer Area

Client initiates the flow.	step 1
The authorization server authenticates the client, validates details sent, and responds with an access token.	step 2
The authorization server redirects the user-agent back to the client using the redirection URI provided.	step 3
The authorization server authenticates the resource owner.	step 4
The client requests an access token from the authorization server's token endpoint.	step 5

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Client initiates the flow.		Client initiates the flow.
The authorization server authenticates the client, validates details sent, and responds with an access token.		The authorization server redirects the user-agent back to the client using the redirection URI provided.
The authorization server redirects the user-agent back to the client using the redirection URI provided.		The authorization server authenticates the resource owner.
The authorization server authenticates the resource owner.		The client requests an access token from the authorization server's token endpoint.
The client requests an access token from the authorization server's token endpoint.		The authorization server authenticates the client, validates details sent, and responds with an access token.

NEW QUESTION 10

A developer has completed the implementation of a REST API, but when it is executed, it returns a 401 error message. What must be done on the API to resolve the issue?

A. Access permission to the resource must be granted, before the request.
B. Configure new valid credentials.
C. The requested API endpoint does not exist, and the request URL must be changed.
D. Additional permission must be granted before the request can submitted.

Answer: D

NEW QUESTION 14

Paginating the Results

By adding the page-size operator to the query URI you can divide the query results into groups (pages) of objects using the following syntax. The operand specifies the number of objects in each group.

page-size = number-of-objects-per-page

By adding the page operator in the query URI, you can specify a single group to be returned using the following syntax. The pages start from number 0.

page = page-number

This example shows you how to specify 15 fault instances per page in descending order, returning only the first page:

Refer to the exhibit. Many faults have occurred in the ACI environment and a sample of them needs to be examined. Which API call retrieves faults 30 through 45?

A. GET https://apic-ip-address/api/class/faultInfo.json?order-by=faultinst.severity|desc&page=1&page-size=15
B. GET https://apic-ip-address/api/class/faultInfo.json?order-by=faultinst.severity|desc&page=2&page-size=15
C. GET https://apic-ip-address/api/class/faultInfo.json?order-by=faultinst.severity|desc&page=30
D. GET https://apic-ip-address/api/class/faultInfo.json?order-by=faultinst.severity|desc&page=2&page-size=30

Answer: D

NEW QUESTION 15

User report that they can no longer process transactions with the online ordering application, and the logging dashboard is displaying these messages.
Fri Jan 10 19:37:31.123 EST 2020 [FRONTEND] INFO: Incoming request to add item to cart from user 45834534858 Fri Jan 10 19:37:31 247 EST 2020 [BACKEND] INFO: Attempting to add item to cart
Fri Jan 10 19:37:31 250 EST 2020 [BACKEND] ERROR: Failed to add item: MYSQLDB ERROR: Connection refused What is causing the problem seen in these log messages?

A. The database server container has crashed.
B. The backend process is overwhelmed with too many transactions.
C. The backend is not authorized to commit to the database.
D. The user is not authorized to add the item to their cart.

Answer: A

NEW QUESTION 16

```
$filter { string }                                                    query

Filter criteria for documents to return. A URI with a $filter System Query Option identifies a subset of
the Entries from the Collection of Entries identified by the Resource Path section of the URI. The
subset is determined by selecting only the Entries that satisfy the predicate expression specified by
the query option. The expression language that is used in $filter operators supports references to
properties and literals. The literal values can be strings enclosed in single quotes, numbers and
boolean values (true or false) or any of the additional literal representations shown in the Abstract
Type System section. Query examples: $filter=Name eq 'Bob' $filter=Tags/any(t: t/Key eq 'Site')
$filter=Tags/any(t: t/Key eq 'Site' and t/Value eq "London')
```

```
GET /api/v1/compute/RackUnits?$filter=Tags/any (t:t/Key eq 'Site")
```

Refer to the exhibit. An Intersight API is being used to query RackUnit resources that have a tag keyword set to "Site". What is the expected output of this command?

A. list of all resources that have a tag with the keyword "Site"
B. error message because the Value field was not specified
C. error message because the tag filter should be lowercase
D. list of all sites that contain RackUnit tagged compute resources

Answer: A

NEW QUESTION 19
A user is receiving a 429 Too Many Requests error. Which scheme is the server employing that causes this error?

A. rate limiting
B. time outs
C. caching
D. redirection

Answer: A

NEW QUESTION 24
Refer to the exhibit. An application uses an API to periodically sync a large data set. Based on the HTTP message sequence provided, which statements are true about the caching behavior seen in the scenario? (Choose two.)

A. The full dataset was transmitted to the client twice.
B. The dataset changed sometime between message #4 and #5.
C. A partial dataset was transmitted to the client in message #4.
D. The dataset did not change during the scenario.
E. Messages #3 and #5 are equivalent.

Answer: AD

NEW QUESTION 26
An application uses OAuth to get access to several API resources on behalf of an end user. What are two valid parameters to send to the authorization server as part of the first step of an authorization code grant flow? (Choose two.)

A. URI to which the authorization server will send the user-agent back when access is granted or denied
B. list of the API resources that the application is requesting to access
C. secret that was generated by the authorization server when the application registered as an OAuth integration
D. list of scopes that correspond to the API resources to which the application is requesting to access
E. name of the application under which the application registered as an OAuth integration

Answer: AC

NEW QUESTION 28
Which snippet presents the correct API call to configure, secure, and enable an SSID using the Meraki API?

A.
```
curl -X PUT \
--url 'https://api.meraki.com/api/v0/networks/:networkId/ssids/2' \
-H 'X-Cisco-Meraki-API-Key: 15da0c6ffff295f16267f88f98694cf29a86ed87' \
-H 'Accept: application/json' \
-H 'Content-type: application/json' \
--data-raw '{
"name": "My SSID",
"enabled": false,
"authMode": "psk",
"encryptionMode": "wpa",
"psk": "meraki123",
"wpaEncryptionMode": "WPA1 and WPA2"
}'
```

B.

```
curl -X PUT \
--url 'https://api.meraki.com/api/v0/networks/:networkId/ssids/2' \
-H 'X-Cisco-Meraki-API-Key: 15da0c6ffff295f16267f88f98694cf29a86ed87' \
-H 'Accept: application/json' \
-H 'Content-type: application/json' \
--data-raw '{
"name": "My SSID",
"enabled": true,
"authMode": "psk",
"encryptionMode": "wpa",
"psk": "meraki123",
"wpaEncryptionMode": "WPA1 and WPA2"
}'
```

C.
```
curl -X PUT \
--url 'https://api.meraki.com/api/v0/networks/:networkId/ssids/2' \
-H 'X-Cisco-Meraki-API-Key:
15da0c6ffff295f16267f88f98694cf29a86ed87' \
-H 'Accept: application/json' \
-H 'Content-type: application/json' \
--data-raw '{
"enabled": true,
"useVlanTagging": true
}'
```

D.
```
curl -X PUT \
--url 'https://api.meraki.com/api/v0/networks/:networkId/ssids/2' \
-H 'X-Cisco-Meraki-API-Key: 15da0c6ffff295f16267f88f98694cf29a86ed87' \
-H 'Accept: application/json' \
-H 'Content-type: application/json'\
--data-raw '{
"name": "My SSID",
"enabled": true,
}'
```

Answer: B

NEW QUESTION 32
A container running a Python script is failing when it reaches the integration testing phase of the CI/CD process. The code has been reviewed thoroughly and the build process works on this container and all other containers pass unit and integration testing.
What should be verified to resolve the issue?

A. that the correct port is exposed in the Dockerfile
B. that the necessary modules and packages are installed on build
C. that the script is running from the night directory
D. that the Python version of the container image is correct

Answer: B

NEW QUESTION 33
AppGigabitEthernet interface is used as data port for a container on a Cisco Catalyst 9000 Series Switch. Which two interface configuration options should be used? (Choose two.)

A. trunk interface
B. bridged virtual interface
C. SPAN port
D. management interface
E. subinterface

Answer: AC

NEW QUESTION 34
Which two types of storage are supported for app hosting on a Cisco Catalyst 9000 Series Switch? (Choose two.)

A. external USB storage
B. internal SSD
C. CD-ROM
D. SD-card
E. bootflash

Answer: AB

NEW QUESTION 36
Into which two areas are AppDynamics APIs categorized? (Choose two.)

A. application-centric
B. analytics-events
C. database-visibility
D. platform-side
E. agent-side

Answer: DE

NEW QUESTION 41
While developing an application following the 12-factor app methodology, which approach should be used in the application for logging?

A. Write a log to a file in the application directory.
B. Write a log to a file in /var/log.
C. Write the logs buffered to stdout.
D. Write the logs unbuffered to stdout.

Answer: D

NEW QUESTION 44
An application has initiated an OAuth authorization code grant flow to get access to an API resource on behalf of an end user.
Which two parameters are specified in the HTTP request coming back to the application as the end user grants access? (Choose two.)

A. access token and a refresh token with respective expiration times to access the API resource
B. access token and expiration time to access the API resource
C. redirect URI a panel that shows the list of permissions to grant
D. code that can be exchanged for an access token
E. state can be used for correlation and security checks

Answer: AB

NEW QUESTION 49
A web application is susceptible to cross-site scripting. Which two methods allow this issue to be mitigated? (Choose two.)

A. Use only drop downs.
B. Limit user input to acceptable characters.
C. Encrypt user input on the client side.
D. Use AES encryption to secure the script.
E. Remove all HTML/XML tags from user input.

Answer: BD

NEW QUESTION 52
Which tow actions must be taken when an observable microservice application is developed? (Choose two.)

A. Know the state of a single instance of a single service.
B. Place "try/except" statement in code.
C. Place log statements in the code.
D. Use distributed tracing techniques.
E. Deploy microservice to multiple datacenters.

Answer: BC

NEW QUESTION 56
Which two countermeasures help reduce the risk of playback attacks? (Choose two.)

A. Store data in a NoSQL database.
B. Implement message authentication (HMAC).
C. Enable end-to-end encryption.
D. Remove stack traces from errors.
E. Use short-lived access tokens.

Answer: BE

NEW QUESTION 58

```
FROM alpine:3.7

RUN apk add --no-cache bash
```

Refer to the exhibit. Which additional line results in the output of Test 1 upon execution of the docker run --rm devnet 1 command in a Dockerfile with this content?

A. CMD ["/bin/echo", "Test"]

B. RUN ["/bin/echo", "Test"]
C. ENTRYPOINT ["/bin/echo", "Test"]
D. CMD ["/bin/echo Test"]

Answer: A

NEW QUESTION 61
Which two techniques protect against injection attacks? (Choose two.)

A. input validation
B. trim whitespace
C. limit text areas to 255 characters
D. string escaping of user free text and data entry
E. only use dropdown, checkbox, and radio button fields

Answer: AE

NEW QUESTION 66
Which two strategies are used to protect personally identifiable information? (Choose two.)

A. Encrypt data in transit.
B. Encrypt hash values of data.
C. Encrypt data at rest.
D. Only hash usernames and passwords for efficient lookup.
E. Only encrypt usernames and passwords for efficient lookup.

Answer: AB

NEW QUESTION 69
Which HTTP status code indicates that a client application is experiencing intentional rate limiting by the server?

A. 202
B. 401
C. 429
D. 503

Answer: C

NEW QUESTION 74
Which database type should be used to store data received from model- driven telemetry?

A. BigQuery database
B. Time series database
C. NoSQL database
D. PostgreSQL database

Answer: B

NEW QUESTION 78
An automated solution is needed to configure VMs in numerous cloud provider environments to connect the environments to an SDWAN. The SDWAN edge VM is provided as an image in each of the relevant clouds and can be given an identity and all required configuration via cloud-init without needing to log into the VM once online.
Which configuration management and/or automation tooling is needed for this solution?

A. Ansible
B. Ansible and Terraform
C. NSO
D. Terraform
E. Ansible and NSO

Answer: E

NEW QUESTION 82

```
- name: Configure Interfaces
  with_items: "{{interfaces}}"
  netconf_config:
    <<: *host_info
    xml: |
      <config>
        <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interefaces">
          <interface>
            <name>{{item.interface_type}}{{item.interface_id}}</name>
            <description>{{item.description}}</description>
            <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:ethernetCsmacd</type>
            <enabled>true</enabled>
            <ipv4 xmlns="urn:ietf:params:xml:ns:yang:ietf-ip">
              <address>
                <ip>{{item.ip_address}}</ip>
                <netmask>{{item.subnet_mask}}</netmask>
              </address>
            </ipv4>
          </interface>
        </interfaces>
      </config>
```

Refer to the exhibit. The Ansible playbook is using the netconf_module to configure an interface using a YANG model. As part of this workflow, which YANG models augment the interface?

A. ietf-interfaces and ietf-ip
B. iana-if-type and ietf-interfaces
C. ietf-ip and openconfig-interface
D. ietf-ip and iana-if-type

Answer: B

NEW QUESTION 86
A developer needs to configure an environment to orchestrate and configure. Which two tools should be used for each task? (Choose two.)

A. Puppet for orchestration
B. Terraform for orchestration
C. Terraform for configuration
D. Ansible for orchestration
E. Ansible for configuration

Answer: BE

NEW QUESTION 89
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