1Z0-1084-22 Q&As

Oracle Cloud Infrastructure 2022 Developer Professional

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QUESTION 1

What is one of the differences between a microservice and a serverless function?

A. Microservices are used for long running operations and serverless functions for short running operations.

B. Microservices always use a data store and serverless functions never use a data store.

C. Microservices are stateless and serverless functions are stateful.

D. Microservices are triggered by events and serverless functions are not.

Correct Answer: A

microservice is larger and can do more than a function. A function is a relatively small bit of code that performs only one action in response to an event. In many cases, microservices can be decomposed into a number of smaller stateless functions. The difference between microservices and functions is not simply the size. Functions are stateless, and they require no knowledge about or configuration of the underlying server--hence, the term serverless.
https://developer.oracle.com/java/fn-project-introduction.html

QUESTION 2

You are developing a distributed application and you need a call to a path to always return a specific JSON content deploy an Oracle Cloud Infrastructure API Gateway with the below API deployment specification.

```
{
  "routes": [{
    "path": "/hello",
    "methods": ["GET"],
    "backend": {
      "type": "_____",
      "status": 200,
      "headers": [{
        "name": "Content-Type",
        "value": "application/json"
      }],
      "body" : "{\"myjson\": \"consistent response\"}"
    }
  }]
}
```

What is the correct value for type?

A. STOCK_RESPONSE_BACKEND

B. CONSTANT_BACKEND

C. JSON_BACKEND

D. HTTP_BACKEND

Correct Answer: A

"type": "STOCK_RESPONSE_BACKEND" indicates that the API gateway itself will act as the back end and return the stock response you define (the status code, the header fields and the body content). https://docs.cloud.oracle.com/en-us/iaas/Content/APIGateway/Tasks/apigatewayaddingstockresponses.htm

QUESTION 3

Which two "Action Type" options are NOT available in an Oracle Cloud Infrastructure (OCI) Events rule definition?

A. Notifications

B. Functions

C. Streaming

D. Email

E. Slack

Correct Answer: DE

https://docs.cloud.oracle.com/en-us/iaas/Content/Events/Concepts/eventsoverview.htm ACTIONS Event Rules must also specify an action to trigger when the filter finds a matching event. Actions are responses you define for event matches. You set up select Oracle Cloud Infrastructure services that the Events service has established as actions. The resources for these services act as destinations for matching events. When the filter in the rule finds a match, the Events service delivers the matching event to one or more of the destinations you identified in the rule. The destination service that receives the event then processes the event in whatever manner you defined. This delivery provides the automation in your environment. You can only deliver events to certain Oracle Cloud Infrastructure services with a rule. Use the following services to create actions: Notifications Streaming Functions

QUESTION 4

Which concept is NOT related to Oracle Cloud Infrastructure Resource Manager?

A. Job

B. Stack

C. Queue

D. Plan

Correct Answer: C

https://docs.cloud.oracle.com/en-us/iaas/Content/ResourceManager/Concepts/resourcemanager.htm Following are brief descriptions of key concepts and the main components of Resource Manager. CONFIGURATION Information to codify your infrastructure. A Terraform configuration can be either a solution or a file that you write and upload. JOB Instructions to perform the actions defined in your configuration. Only one job at a time can run on a given stack; further, you can have only one set of Oracle Cloud Infrastructure resources on a given stack. To provision a different set of resources, you must create a separate stack and use a different configuration. Resource Manager provides the following job types: Plan: Parses your Terraform configuration and creates an execution plan for the associated stack. The execution plan lists the sequence of specific actions planned to provision your Oracle Cloud Infrastructure

resources. The execution plan is handed off to the apply job, which then executes the instructions. Apply. Applies the execution plan to the associated stack to create (or modify) your Oracle Cloud Infrastructure resources. Depending on the number and type of resources specified, a given apply job can take some time. You can check status while the job runs. Destroy. Releases resources associated with a stack. Released resources are not deleted. For example, terminates a Compute instance controlled by a stack. The stack\\'s job history and state remain after running a destroy job. You can monitor the status and review the results of a destroy job by inspecting the stack\\'s log files. Import State. Sets the provided Terraform state file as the current state of the stack. Use this job to migrate local Terraform environments to Resource Manager. STACK The collection of Oracle Cloud Infrastructure resources corresponding to a given Terraform configuration. Each stack resides in the compartment you specify, in a single region; however, resources on a given stack can be deployed across multiple regions. An OCID is assigned to each stack.

QUESTION 5

How do you perform a rolling update in Kubernetes?

A. kubect1 rolling-update

B. kubect1 upgrade --image=*image:v2

C. kubect1 update -c

D. kubect1 rolling-update --image=image

Correct Answer: A

https://docs.oracle.com/en/cloud/iaas/wercker-cloud/wercm/quickstarts/platforms/kubernetes/

QUESTION 6

What can you use to dynamically make Kubernetes resources discoverable to public DNS servers?

A. ExternalDNS

B. CoreDNS

C. DynDNS

D. kubeDNS

Correct Answer: A

ExternalDNS allows you to control DNS records dynamically via Kubernetes resources in a DNS provider-agnostic way https://github.com/kubernetes-sigs/external-dns/blob/master/README.md https://github.com/kubernetes-sigs/external-dns/blob/master/docs/tutorials/oracle.md

QUESTION 7

You are developing a serverless application with Oracle Functions and Oracle Cloud Infrastructure Object Storage- Your function needs to read a JSON file object from an Object Storage bucket named "input-bucket" in compartment "qacompartment". Your corporate security standards mandate the use of Resource Principals for this use case.

Which two statements are needed to implement this use case?

A. Set up a policy with the following statement to grant read access to the bucket:allow dynamic-group read-file-dg to read objects in compartment qa-compartment where target .bucket .name=\\' input-bucket *

B. Set up the following dynamic group for your function\\'s OCID: Name: read-file-dg Rule: resource.id = `ocid1.fnfunc.oc1.phx.aaaaaaaakeaobctakezjz5i4ujj7g25q7sx5mvr55pms6f4da\\'

C. Set up a policy to grant all functions read access to the bucket:allow all functions in compartment qa-compartment to read objects in target.bucket.name=\\'input-bucket\\'

D. Set up a policy to grant your user account read access to the bucket:allow user XYZ to read objects in compartment qa-compartment where target .bucket, name-\\'input-bucket\\'

E. No policies are needed. By default, every function has read access to Object Storage buckets in the tenancy

Correct Answer: AB

When a function you\\'ve deployed to Oracle Functions is running, it can access other Oracle Cloud Infrastructure resources. For example:

-You might want a function to get a list of VCNs from the Networking service.

- You might want a function to read data from an Object Storage bucket, perform some operation on the data, and then write the modified data back to the Object Storage bucket. To enable a function to access another Oracle Cloud Infrastructure resource, you have to include the function in a dynamic group, and then create a policy to grant the dynamic group access to that resource. https://docs.cloud.oracle.com/en-us/iaas/Content/Functions/Tasks/functionsaccessingociresources.htm

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QUESTION 8

Who is responsible for patching, upgrading and maintaining the worker nodes in Oracle Cloud Infrastructure Container Engine for Kubernetes (OKE)?

A. It Is automated

B. Independent Software Vendors

C. Oracle Support

D. The user

Correct Answer: D

After a new version of Kubernetes has been released and when Container Engine for Kubernetes supports the new version, you can use Container Engine for Kubernetes to upgrade master nodes running older versions of Kubernetes. Because Container Engine for Kubernetes distributes the Kubernetes Control Plane on multiple Oracle-managed master nodes (distributed across different availability domains in a region where supported) to ensure high availability, you\\'re able to upgrade the Kubernetes version running on master nodes with zero downtime. Having upgraded master nodes to a new version of Kubernetes, you can subsequently create new node pools running the newer version. Alternatively, you can continue to create new node pools that will run older versions of Kubernetes (providing those older versions are compatible with the Kubernetes version running on the master nodes). Note that you upgrade master nodes by performing an `in-place\\' upgrade, but you upgrade worker nodes by performing an `out-of-place\\' upgrade. To upgrade the version of Kubernetes running on worker nodes in a node pool, you replace the original node pool with a new node pool that has new worker nodes running the appropriate Kubernetes version. Having \\'drained\\' existing worker nodes

in the original node pool to prevent new pods starting and to delete existing pods, you can then delete the original node pool.

QUESTION 9

You are developing a serverless application with Oracle Functions. Your function needs to store state in a database. Your corporate security Standards mandate encryption of secret information like database passwords. As a function developer, which approach should you follow to satisfy this security requirement?

A. Use the Oracle Cloud Infrastructure Console and enter the password in the function configuration section in the provided input field.

B. Use Oracle Cloud Infrastructure Key Management to auto-encrypt the password. It will inject the auto-decrypted password inside your function container.

C. Encrypt the password using Oracle Cloud Infrastructure Key Management. Decrypt this password in your function code with the generated key.

D. All function configuration variables are automatically encrypted by Oracle Functions.

Correct Answer: A

Passing Custom Configuration Parameters to Functions

he code in functions you deploy to Oracle Functions will typically require values for different parameters. Some pre-defined parameters are available to your functions as environment variables. But you\\'ll often want your functions to use

parameters that you\\'ve defined yourself. For example, you might create a function that reads from and writes to a database. The function will require a database connect string, comprising a username, password, and hostname. You\\'ll

probably want to define username, password, and hostname as parameters that are passed to the function when it\\'s invoked.

Using the Console

To specify custom configuration parameters to pass to functions using the Console:

Log in to the Console as a functions developer.

In the Console, open the navigation menu. Under Solutions and Platform, go to Developer Services and click Functions.

Select the region you are using with Oracle Functions. Oracle recommends that you use the same region as the Docker registry that\\'s specified in the Fn Project CLI context (see 6. Create an Fn Project CLI Context to Connect to Oracle

Cloud Infrastructure). Select the compartment specified in the Fn Project CLI context (see 6. Create an Fn Project CLI Context to Connect to Oracle Cloud Infrastructure). The Applications page shows the applications defined in the

compartment. Click the name of the application containing functions to which you want to pass custom configuration parameters:

To pass one or more custom configuration parameters to every function in the application, click Configuration to see the Configuration section for the application. To pass one or more custom configuration parameters to a particular function,

click the function\\'s name to see the Configuration section for the function. In the Configuration section, specify details for the first custom configuration parameter:

Key: The name of the custom configuration parameter. The name must only contain alphanumeric characters and underscores, and must not start with a number. For example, username Value: A value for the custom configuration parameter.

The value must only contain printable unicode characters. For example, jdoe

Click the plus button to save the new custom configuration parameter. Oracle Functions combines the key-value pairs for all the custom configuration parameters (both application-wide and function-specific) in the application into a single,

serially-encoded configuration object with a maximum allowable size of 4Kb. You cannot save the new custom configuration parameter if the size of the serially-encoded configuration object would be greater than 4Kb. (Optional) Enter

additional custom configuration parameters as required.

QUESTION 10

Which Oracle Cloud Infrastructure (OCI) load balancer shape is used by default in OCI container Engineer for Kubernetes?

A. 400 Mbps

B. 8000 Mbps

C. There is no default. The shape has to be specified.

D. 100 Mbps

Correct Answer: D

Specifying Alternative Load Balancer Shapes The shape of an Oracle Cloud Infrastructure load balancer specifies its maximum total bandwidth (that is, ingress plus egress). By default, load balancers are created with a shape of 100Mbps. Other shapes are available, including 400Mbps and 8000Mbps. https://docs.cloud.oracle.com/en-us/iaas/Content/ContEng/Tasks/contengcreatingloadbalancer.htm

QUESTION 11

A developer using Oracle Cloud Infrastructure (OCI) API Gateway must authenticate the API requests to their web application. The authentication process must be implemented using a custom scheme which accepts string parameters from the API caller. Which method can the developer use In this scenario?

A. Create an authorizer function using request header authorization.

B. Create an authorizer function using token-based authorization.

C. Create a cross account functions authorizer.

D. Create an authorizer function using OCI Identity and Access Management based authentication

Correct Answer: B

Having deployed the authorizer function, you enable authentication and authorization for an API deployment by including two different kinds of request policy in the API deployment specification:

An authentication request policy for the entire API deployment that specifies:The OCID of the authorizer function that you deployed to Oracle Functions that will perform authentication and authorization.The request attributes to pass to the

authorizer function.Whether unauthenticated callers can access routes in the API deployment.

An authorization request policy for each route that specifies the operations a caller is allowed to perform, based on the caller\\'s access scopes as returned by the authorizer function. Using the Console to Add Authentication and Authorization

Request Policies To add authentication and authorization request policies to an API deployment specification using the Console:

Create or update an API deployment using the Console, select the From Scratch option, and enter details on the Basic Information page. For more information, see Deploying an API on an API Gateway by Creating an API Deployment and

Updating API Gateways and API Deployments. In the API Request Policies section of the Basic Information page, click the Add button beside Authentication and specify:

Application in : The name of the application in Oracle Functions that contains the authorizer function. You can select an application from a different compartment. Function Name: The name of the authorizer function in

Oracle Functions. Authentication Token: Whether the access token is contained in a request header or a query parameter.

Authentication Token Value: Depending on whether the access token is contained in a request header or a query parameter, specify:

Header Name: If the access token is contained in a request header, enter the name of the header. Parameter Name: If the access token is contained in a query parameter, enter the name of the query parameter.

https://docs.cloud.oracle.com/en-us/iaas/Content/APIGateway/Tasks/apigatewayaddingauthzauthn.htm

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QUESTION 12

Which statements is incorrect with regards to the Oracle Cloud Infrastructure (OCI) Notifications service?

A. Notification topics may be assigned as the action performed by an OCI Events configuration.

B. OCI Alarms can be configured to publish to a notification topic when triggered.

C. An OCI function may subscribe to a notification topic.

D. A subscription can forward notifications to an HTTPS endpoint.

E. A subscription can integrate with PagerDuty events.

F. It may be used to receive an email each time an OCI Autonomous Database backup is completed.

Correct Answer: F

QUESTION 13

You are building a cloud native, serverless travel application with multiple Oracle Functions in Java, Python and Node.js. You need to build and deploy these functions to a single applications named travel-app. Which command will help you complete this task successfully?

A. oci fn function deploy --ap travel-ap --all

B. fn deploy --ap travel-ap -- all

C. oci fn application --application-name-ap deploy --all

D. fn function deploy --all --application-name travel-ap

Correct Answer: B

check the steps for Creating, Deploying, and Invoking a Helloworld Function https://docs.cloud.oracle.com/en-us/iaas/Content/Functions/Tasks/functionscreatingfirst.htm in step 7 that will deploy the funcation 7- Enter the following single Fn

Project command to build the function and its dependencies as a Docker image called helloworld-func, push the image to the specified Docker registry, and deploy the function to Oracle Functions in the helloworld-app:

$ fn -v deploy --app helloworld-app

The -v option simply shows more detail about what Fn Project commands are doing (see Using the Fn Project CLI with Oracle Functions).

QUESTION 14

You have two microservices, A and B running in production. Service A relies on APIs from service B. You want to test changes to service A without deploying all of its dependencies, which includes service B. Which approach should you take to test service A?

A. Test against production APIs.

B. Test using API mocks.

C. There is no need to explicitly test APIs.

D. Test the APIs in private environments.

Correct Answer: B

Testing using API mocks Developers are frequently tasked with writing code that integrates with other system components via APIs. Unfortunately, it might not always be desirable or even possible to actually access those systems during development. There could be security, performance or maintenance issues that make them unavailable ?or they might simply not have been developed yet. This is where mocking comes in: instead of developing code with actual external dependencies in place, a mock of those dependencies is created and used instead. Depending on your development needs this mock is made "intelligent" enough to allow you to make the calls you need and get similar results back as you would from the actual component, thus enabling development to move forward without being hindered by eventual unavailability of external systems you depend on

QUESTION 15

A programmer Is developing a Node is application which will run in a Linux server on their on-premises data center. This application will access various Oracle Cloud Infrastructure (OC1) services using OCI SDKs. What is the secure way to access OCI services with OCI Identity and Access Management (JAM)?

A. Create a new OCI IAM user associated with a dynamic group and a policy that grants the desired permissions to OCI services. Add the on-premises Linux server in the dynamic group.

B. Create an OCI IAM policy with the appropriate permissions to access the required OCI services and assign the policy to the on-premises Linux server.

C. Create a new OCI IAM user, add the user to a group associated with a policy that grants the desired permissions to OCI services. In the on-premises Linux server, generate the keypair used for signing API requests and upload the public key to the IAM user.

D. Create a new OCI IAM user, add the user to a group associated with a policy that grants the desired permissions to OCI services. In the on-premises Linux server, add the user name and password to a file used by Node.js authentication.

Correct Answer: C

Before using Oracle Functions, you have to set up an Oracle Cloud Infrastructure API signing key. The instructions in this topic assume:

-

you are using Linux

-

you are following Oracle\\'s recommendation to provide a passphrase to encrypt the private key For more Detials Set up an Oracle Cloud Infrastructure API Signing Key for Use with Oracle Functions

https://docs.cloud.oracle.com/en-us/iaas/Content/Functions/Tasks/functionssetupapikey.htm