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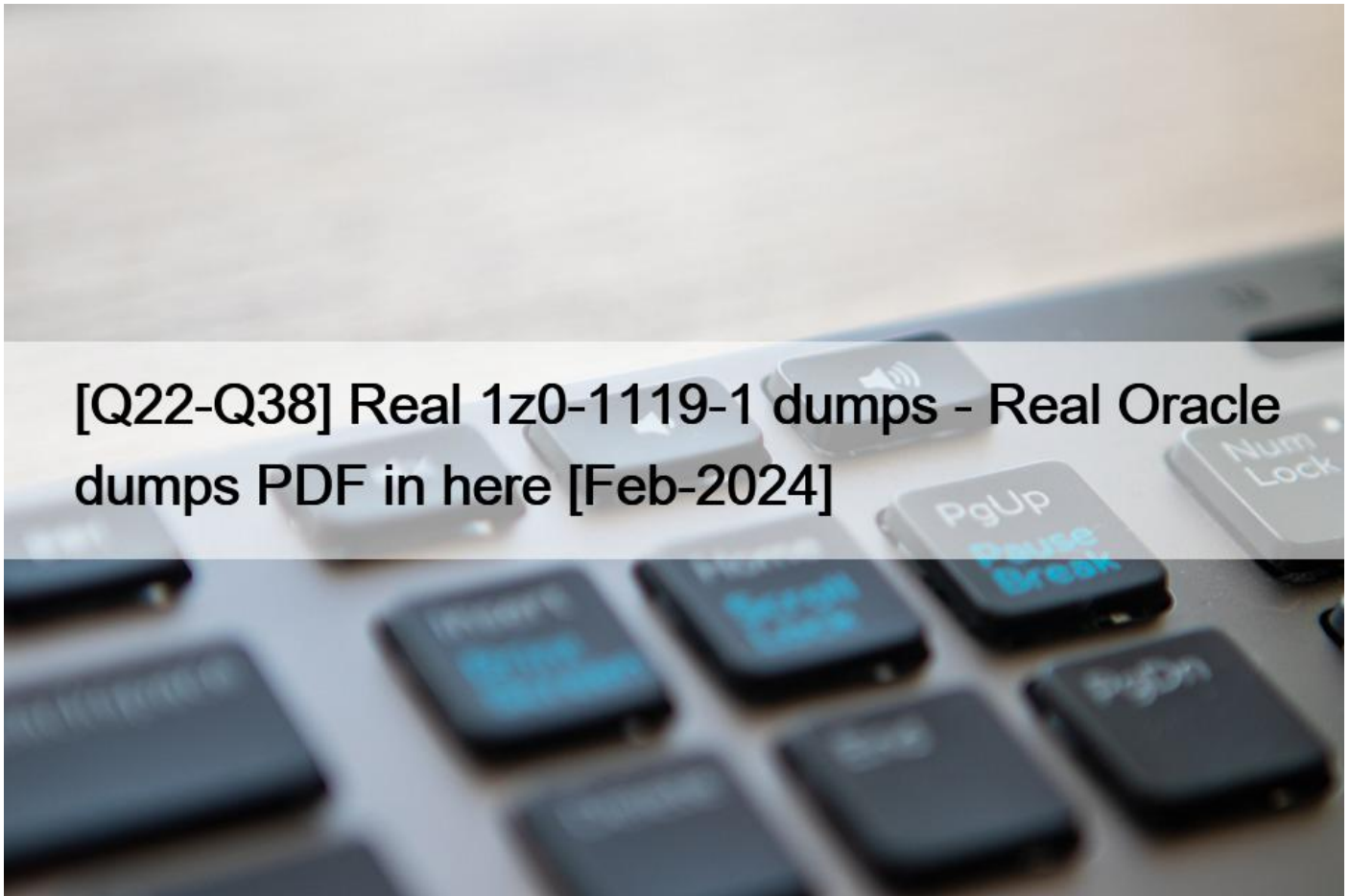

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QUESTION 22

Which Oracle Cloud Service can be used as a Docker Hub equivalent as part of the Sunbird ED infrastructure requirements?

* OCI Container Registry (Oracle Cloud Infrastructure Registry OCIR)

* OCI Events

* OCI Container Instances

* OCI Streaming

OCI Container Registry (OCIR) is a managed Docker registry service that provides a Docker Hub equivalent functionality within Oracle Cloud Infrastructure. It allows users to store, share, and manage container images securely, making it an essential part of the infrastructure for containerized applications like those in Sunbird ED.

QUESTION 23

What is the primary purpose of Oracle Cloud Infrastructure Resource Manager (ORM)?

* To provision and manage Oracle Cloud Infrastructure resources through the “infrastructure-as-code” model using

Terraform
* To create and manage container images
* To automate software builds and deployments
* To provide a managed repository for source code

Oracle Cloud Infrastructure Resource Manager (ORM) is a managed service that enables the provisioning and managing of OCI resources through the infrastructure-as-code model. It uses Terraform by HashiCorp, allowing users to define and apply configurations using declarative code, thereby automating the setup and maintenance of cloud resources efficiently.

QUESTION 24

You have configured an Oracle Cloud Infrastructure (OCI) Load Balancer to distribute traffic to two compute instances in a private subnet. However, one of the target instance’s health is marked as Critical. Which is NOT a typical reason for this?
* The target instance did not respond with a successful HTTP status code.
* The target instance is in a different availability domain than the Load Balancer.
* The network security group rules of the target instance do not allow traffic on the necessary ports.

The health of an instance in the context of OCI Load Balancer does not directly depend on its availability domain. Instances can be in different availability domains from the Load Balancer and still receive traffic as long as they are within the same region and the network configuration allows it. Typical reasons for an instance to be marked as Critical include failing health checks due to issues like improper security group configurations or the instance not responding correctly, but not because of its placement in a different availability domain.

QUESTION 25

Which API microservice is exposed by Sunbird inQuiry?
* questionset-service
* inquiry-service
* quest ion-answer-service
* question-service

The naming conventions used in microservices often reflect their functionality. ‘questionset-service’ seems most aligned with the functionality one might expect in an inquiry microservice within an educational platform, handling sets of questions or inquiries.

QUESTION 26

Which option indicates the primary storage for Sunbird Knowlg microserviccs?
* Nco4J. Cassandra
* Elasticsearch. Nco4J. (loud Storage
* Nco4J
* Neo4J.Cavsandra. Cloud Storage

For a knowledge microservice, a combination of Neo4J, Cassandra, and Cloud Storage would provide a robust solution. Neo4J offers graph database capabilities for complex queries andrelationships, Cassandra provides scalable and high-performance data management, and Cloud Storage offers a flexible solution for storing large amounts of unstructured data.

QUESTION 27

Oracle Cloud Agent is a lightweight proves that manages plug-ins running on compute instances for all Ubuntu platform images dated after Feb 2019. Plug-ins collect performance metrics that can be displayed in (XI Console Dashboards. Which is NOT a metric in compute instance?
* Disk Read I/O
* Memory Utilization

* Disk Free Space
* CPU Utilization

Oracle Cloud Agent collects various performance metrics from compute instances, such as Disk Read I/O, Memory Utilization, and CPU Utilization, to help monitor and manage the performance of instances.

However, Disk Free Space is typically not a metric directly provided by the Oracle Cloud Agent as it focuses more on performance metrics rather than storage capacity metrics.

QUESTION 28

How do you construct I he collection relation cache foe a course if it is not available?
* Restart the relation-cache-updater job.
* Create the cache entry manually.

C Execute the “syne-rel-cache-all”command in sync to generate the events for relation- cache-updater andre-create the cache.
* Drain the relation-cache-updater input Kalka topic.

In microservices and distributed systems, caches are often used to improve performance. The command

‘sync-rel-cache-all’ suggests a process to synchronize and regenerate the cache for collection relationships, which is a plausible approach to constructing or reconstructing a cache in such systems.

QUESTION 29

Which of these steps should be pet formed when creating the infrastructure Tor Sunbird ED deployment?

* Create NAT Gateway in the Virtual Cloud Network (VCN) to give those cloud resources that are without

* public IP addresses access to (he Internet, without exposing those resources to incoming Internet connections.

* Create Service Gateway in the VCN to enable private access lo specific Oracle service (for example.

Object Storage. Container Registry, and so on) without exposing the data to the public Internet

* Create Network Security Group (NSG) to allow the Compute VMs lo access other subnets. Oracle services, and the Internet.

* Create Reverse DNS (FTR) records to resolve all private IP addresses hack to fully qualified domain names

* IFODN).
* (i), (ii), (iii) only
* (i), (ii), (iii) and (iv)
* (i), (ii), and (iv) only
* (iii) and (iv) only

When creating the infrastructure for Sunbird ED deployment, it is essential to create a NAT Gateway for enabling private resources to access the internet without direct exposure, a Service Gateway for private access to Oracle services without internet exposure, and Network Security Groups (NSGs) for defining security rules for VMs. Creating Reverse DNS records is not typically a required step in this context, making options (i), (ii), and (iii) the correct actions to perform.

QUESTION 30

You need to create a load balancer for Sunbird ED Portal, the Player microservice. You use annotation (o control (he shapes of the load balancer where you need to put the annotation in the ansible inventory. What is the minimum bandwidth for a flexible load balancer in OCI?

* 8000 Mbps
* 10 Mbps
* 400 Mbps
* 100 Mbps

The minimum bandwidth for a flexible load balancer in OCI is 10 Mbps. This allows for granular control over the load balancer’s capacity, enabling it to be precisely tailored to the application’s needs, such as the Player microservice in Sunbird ED Portal, ensuring efficient distribution of traffic and optimal resource utilization.

QUESTION 31

Which content player does NOT exist in the Sunbird platform?
* Video Player
* HTML Player
* PDF Player
* QuML Player

In the context of digital learning platforms, common content players include Video Player, HTML Player, and PDF Player for handling various content types. QuML (Question Markup Language) Player is less common and might not exist in the Sunbird platform, as the platform would more likely use standard formats like HTML, PDF, and video for content delivery.

QUESTION 32

Which Oracle Cloud Service can be used to integrate with Sunbird ED to provide video and audio streaming?
* OCI Media Streams
* OCI Notification
* OCI Events
* OCI Streaming

OCI Streaming service is designed to provide real-time data streaming capabilities, which can be used for various purposes, including video and audio streaming. This makes it a suitable choicefor integrating with Sunbird ED to support streaming functionalities, enhancing the platform’s capabilities in delivering multimedia content.

QUESTION 33

Which statement best describes the primary use of the Sunbird client service library (CSL) in an application?
* It employs CSL to execute complex business logic and interact with external APIs.
* It uses CSL for rendering various forms within the application’s user interface.
* It leverages CSL to provide a set of common user interface components across the application.
* None of these options accurately represents the purpose of CSL within the application.

Client Service Libraries (CSL) are typically used to encapsulate the interactions with backend services, providing a simplified API for front-end applications. They can execute business logic and interact with external APIs, abstracting the complexity of direct service communications.

QUESTION 34

How do you replay all the existing messages in a Kafka topic by using the Flink job?
* Stop the Mink job. Reset the consumer group offset value to oldest and start the job.
* Restart the Flink job.
* Change the retention period to zero and revert to the previous value for the Kalka topic.

* Increase the number of partitions of the Kalka topic and restart the Flink job.

To replay all messages in a Kafka topic using a Flink job, you would typically stop the job, reset the consumer group offset to the earliest position (often referred to as ‘oldest’), and then restart the job. This process ensures that the Flink job will reprocess all messages from the beginning of the topic.

QUESTION 35

You are working on a project that requires real-time monitoring and visualization of key performance metrics.

Which tool or library would you choose for real-time data visualization?

* Matplotlib
* Apache Hadoop
* Tableau
* Grafana

Grafana is a popular open-source platform for monitoring and observability, widely used for real-time data visualization with support for various data sources, including cloud services and databases, making it an ideal choice for real-time monitoring and visualization of key performance metrics.

QUESTION 36

Which feature of the OCX Resource Manager service would you use to differentiate between the real-world state of your infrastructure and the slack’s last-executed configuration?

* Dill Detection
* Apply or Import State
* View State
* Drift Detection

Drift Detection is a feature in OCI Resource Manager that helps users identify discrepancies between the real-world state of their infrastructure and the configuration defined in their Terraform state file. This feature is crucial for maintaining the integrity of infrastructure deployments, as it highlights unintended changes or drifts that might have occurred outside of Terraform’s management.

QUESTION 37

Which three of the following Oracle Cloud Services can be used as the infrastructure requirements of Sunbird ED?

Container Engine for Kuberntes (OKE)

OCI Compute

OCI File Storage

Oracle Autonomous Database Severless

Oracle Cloud Infrastructure Registry (OCIR, Container Registry)

* (i), (ii) and (v)
* (i), (ii) and (iv)
* (ii), (iii) and (iv)
* (i), (iii) and (iii)

For the infrastructure requirements of Sunbird ED, Container Engine for Kubernetes (OKE) for orchestrating containerized applications, OCI Compute for providing scalable virtual machines, and OCI Container Registry (OCIR) for storing and managing

container images are essential services. These services collectively support a robust, scalable, and efficient cloud infrastructure for deploying and managing Sunbird ED.

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