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Oracle Cloud Infrastructure 2022 Foundations Associate

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QUESTION 1

Which statement is correct regarding the oracle cloud infrastructure Compute services?

- A. When you stop a compute instance, all data on the boot volume is lost
- B. You can attach a maximum of one public to each compute instance
- C. You can launch either virtual machines or bare metal instances
- D. You cannot attach a block volume to a compute instance

Correct Answer: C

Oracle Cloud Infrastructure Compute lets you provision and manage compute hosts, known as instances. You can launch instances as needed to meet your compute and application requirements. After you launch an instance, you can access it securely from your computer, restart it, attach and detach volumes, and terminate it when you're done with it. Any changes made to the instance's local drives are lost when you terminate it. Any saved changes to volumes attached to the instance are retained. Oracle Cloud Infrastructure offers both bare metal and virtual machine instances:

- 1) Bare Metal: A bare metal compute instance gives you dedicated physical server access for highest performance and strong isolation.
- 2) Virtual Machine: A virtual machine (VM) is an independent computing environment that runs on top of physical bare metal hardware. The virtualization makes it possible to run multiple VMs that are isolated from each other. VMs are ideal for running applications that do not require the performance and resources (CPU, memory, network bandwidth, storage) of an entire physical machine. An Oracle Cloud Infrastructure VM compute instance runs on the same hardware as a bare metal instance, leveraging the same cloud-optimized hardware, firmware, software stack, and networking infrastructure. Reference: <https://docs.cloud.oracle.com/en-us/iaas/Content/Compute/Concepts/computeoverview.htm>

QUESTION 2

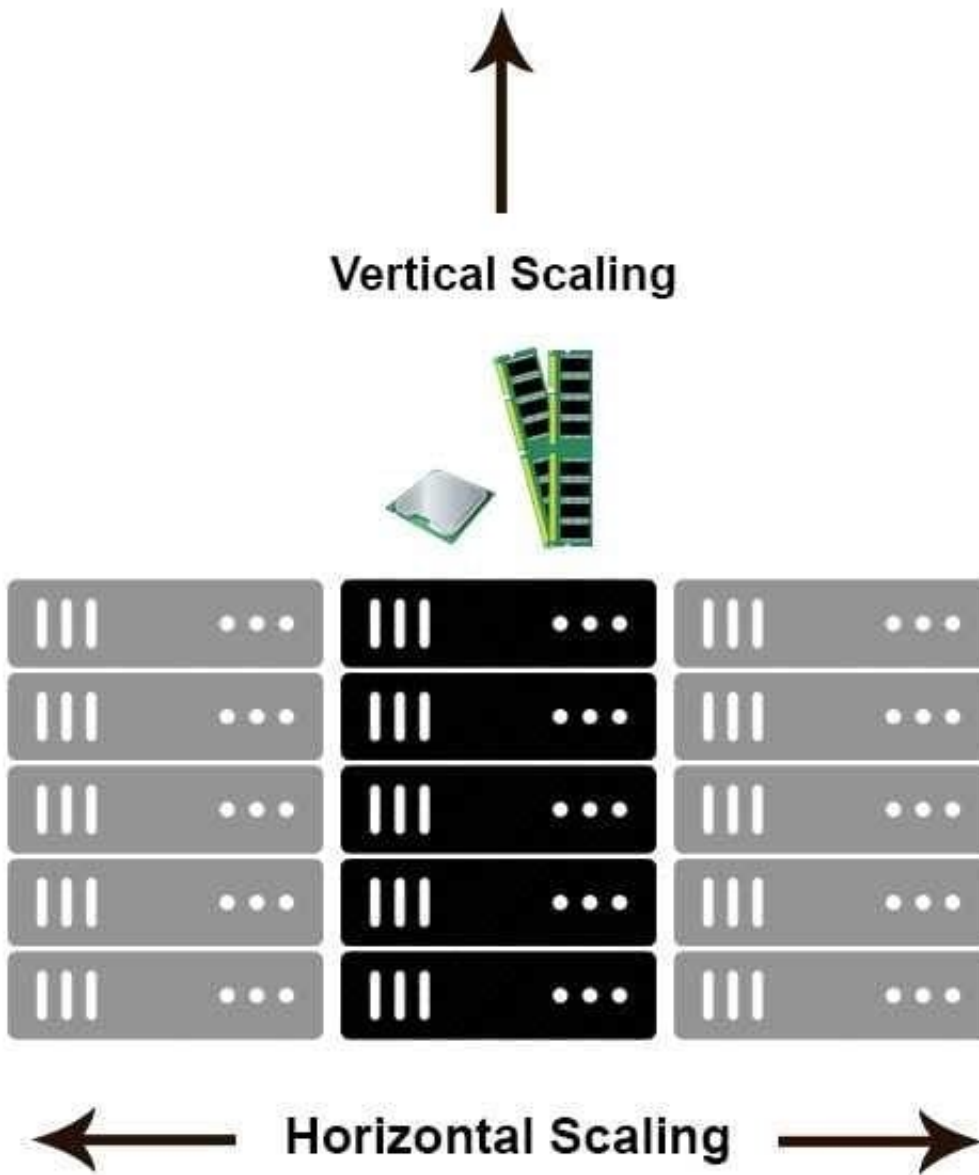
What does compute instance horizontal scaling mean?

- A. stopping/starting the instance
- B. backing up data to object storage
- C. adding additional compute instances
- D. changing compute instance size

Correct Answer: C

Cloud Horizontal Scaling refers to provisioning additional servers to meet your needs, often splitting workloads between servers to limit the number of requests any individual server is getting. In a cloud-based environment, this would mean adding additional instances instead of moving to a larger instance size. Cloud Vertical Scaling refers to adding more CPU or memory to an existing server, or replacing one server with a more powerful server.

Reference: <https://cloudcheckr.com/cloud-cost-management/cloud-vs-data-center-what-is-scalability-in-cloudcomputing/>
Horizontal scaling means that you scale by adding more machines into your pool of resources whereas Vertical scaling means that you scale by adding more power (CPU, RAM) to an existing machine. An easy way to remember this is to think of a machine on a server rack, we add more machines across the horizontal direction and add more resources to a machine in the vertical direction.



With horizontal-scaling it is often easier to scale dynamically by adding more machines into the existing pool -- Vertical-scaling is often limited to the capacity of a single machine, scaling beyond that capacity often involves downtime and comes with an upper limit. Reference: <https://medium.com/@abhinavkorpai/scaling-horizontally-and-vertically-for-databases- a2aef778610c>

QUESTION 3

Which statement about Oracle Cloud Infrastructure (OCI) shared security model is true?

- A. You are responsible for managing security controls within the physical OCI network.
- B. You are not responsible for any aspect of security in OCI.
- C. You are responsible for securing all data that you place in OCI D. You are responsible for securing the hypervisor within OCI Compute service.

Correct Answer: C

Oracle Cloud Infrastructure offers best-in-class security technology and operational processes to secure its enterprise cloud services. However, for you to securely run your workloads in Oracle Cloud Infrastructure, you must be aware of your security and compliance responsibilities. By design, Oracle provides security of cloud infrastructure and operations (cloud operator access controls, infrastructure security patching, and so on), and you are responsible for securely configuring your cloud resources. Security in the cloud is a shared responsibility between you and Oracle. In a shared, multi-tenant compute environment, Oracle is responsible for the security of the underlying cloud infrastructure (such as data-center facilities, and hardware and software systems) and you are responsible for securing your workloads and configuring your services (such as compute, network, storage, and database) securely. In a fully isolated, single-tenant, bare metal server with no Oracle software on it, your responsibility increases as you bring the entire software stack (operating systems and above) on which you deploy your applications. In this environment, you are responsible for securing your workloads, and configuring your services (compute, network, storage, database) securely, and ensuring that the software components that you run on the bare metal servers are configured, deployed, and managed securely. More specifically, your and Oracle's responsibilities can be divided into the following areas: Identity and Access Management (IAM): As with all Oracle cloud services, you should protect your cloud access credentials and set up individual user accounts. You are responsible for managing and reviewing access for your own employee accounts and for all activities that occur under your tenancy. Oracle is responsible for providing effective IAM services such as identity management, authentication, authorization, and auditing. Workload Security: You are responsible for protecting and securing the operating system and application layers of your compute instances from attacks and compromises. This protection includes patching applications and operating systems, operating system configuration, and protection against malware and network attacks. Oracle is responsible for providing secure images that are hardened and have the latest patches. Also, Oracle makes it simple for you to bring the same third-party security solutions that you use today. Data Classification and Compliance: You are responsible for correctly classifying and labeling your data and meeting any compliance obligations. Also, you are responsible for auditing your solutions to ensure that they meet your compliance obligations. Host Infrastructure Security: You are responsible for securely configuring and managing your compute (virtual hosts, containers), storage (object, local storage, block volumes), and platform (database configuration) services. Oracle has a shared responsibility with you to ensure that the service is optimally configured and secured. This responsibility includes hypervisor security and the configuration of the permissions and network access controls required to ensure that hosts can communicate correctly and that devices are able to attach or mount the correct storage devices. Network Security: You are responsible for securely configuring network elements such as virtual networking, load balancing, DNS, and gateways. Oracle is responsible for providing a secure network infrastructure. Client and Endpoint Protection: Your enterprise uses various hardware and software systems, such as mobile devices and browsers, to access your cloud resources. You are responsible for securing all clients and endpoints that you allow to access Oracle Cloud Infrastructure services. Physical Security: Oracle is responsible for protecting the global infrastructure that runs all of the services offered in Oracle Cloud Infrastructure. This infrastructure consists of the hardware, software, networking, and facilities that run Oracle Cloud Infrastructure services.

Reference: <https://www.oracle.com/a/ocom/docs/oracle-cloud-infrastructure-security-architecture.pdf>

QUESTION 4

A customer wants to use Oracle Cloud Infrastructure (OCI) storing application backups which can be stored for months, but retrieved immediately based on business needs. Which OCI storage service can be used to meet this requirement?

- A. Archive Storage
- B. Block Volume
- C. Object Storage (standard)
- D. File Storage

Correct Answer: C

Oracle Cloud Infrastructure offers two distinct storage class tiers to address the need for both performant, frequently accessed "hot" storage, and less frequently accessed "cold" storage. Storage tiers help you maximize performance where appropriate and minimize costs where possible. Use Object Storage for data to which you need fast, immediate, and frequent access. Data accessibility and performance justifies a higher price to store data in the Object Storage tier. Use Archive Storage for data to which you seldom or rarely access, but that must be retained and preserved for long periods of time. The cost efficiency of the Archive Storage tier offsets the long lead time required to access the data. Unlike Object Storage, Archive Storage data retrieval is not instantaneous.

Reference: <https://oracledbwr.com/oracle-cloud-infrastructure-object-storage-service/>

QUESTION 5

After Signing up for a new Oracle cloud Infrastructure tenancy, what would you subscribe to in order to deploy infrastructure and services in different parts of the world?

- A. Availability Domain
- B. Fault Domains
- C. Pay as you go pricing
- D. Region

Correct Answer: D

Oracle Cloud Infrastructure is hosted in regions and availability domains. A region is a localized geographic area, and an availability domain is one or more data centers located within a region. A region is composed of one or more availability domains. Most Oracle Cloud Infrastructure resources are either region-specific, such as a virtual cloud network, or availability domain-specific, such as a compute instance. Traffic between availability domains and between regions is encrypted. Availability domains are isolated from each other, fault tolerant, and very unlikely to fail simultaneously. Because availability domains do not share infrastructure such as power or cooling, or the internal availability domain network, a failure at one availability domain within a region is unlikely to impact the availability of the others within the same region. The availability domains within the same region are connected to each other by a low latency, high bandwidth network, which makes it possible for you to provide high-availability connectivity to the internet and on-premises, and to build replicated systems in multiple availability domains for both high-availability and disaster recovery. Oracle is adding multiple cloud regions around the world to provide local access to cloud resources for our customers. To accomplish this quickly, we've chosen to launch regions in new geographies with one availability domain. As regions require expansion, we have the option to add capacity to existing availability domains, to add additional availability domains to an existing region, or to build a new region. The expansion approach in a particular scenario is based on customer requirements as well as considerations of regional demand patterns and resource availability. For any region with one availability domain, a second availability domain or region in the same country or geo-political area will be made available within a year to enable further options for disaster recovery that support customer requirements for data residency where they exist. Reference: <https://docs.cloud.oracle.com/en-us/iaas/Content/General/Concepts/regions.htm>

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