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IBM C1000-142

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QUESTION NO: 1

Write three characteristic of microservices architecture? (Select Three)

A. Code can be updated more easily

B. Teams can use different stacks and different programming languages for different components

C. All components and functions are in a single instance

D. Components can be scaled independently of one another

ANSWER: A B D

Explanation:

Microservices are an architectural approach in which a single application is composed of many loosely coupled and independently deployable smaller components, or services. Characteristic of microservices : - Code can be updated more easily - new features or functionality can be added without touching the entire application. - Teams can use different stacks and different programming languages for different components. - Components can be scaled independently of one another, reducing the waste and cost associated with having to scale entire applications because a single feature might be facing too much load.

QUESTION NO: 2

What is a role of Site Reliability Engineer (SRE)?

A. Automates IT operations

B. Automates IT requirement

C. Automates IT license purchases

D. Automates IT testing

ANSWER: A

QUESTION NO: 3

When using the Cost Estimator tool, what three formats can be used to download the completed estimate?

A. CSV

B. DOC

C. PDF

D. PPT

E. XLSX

ANSWER: A D E

Explanation:

Cost Estimator Tool have ability to download an estimate as PDF , an .XSLX (Excel) or a .CSV (comma-separated values).

QUESTION NO: 4

What represent a city in which one or more IBM Cloud data centers or zones can be located?

A. Urban site

B. Metro

C. District

D. Geography

ANSWER: B

QUESTION NO: 5

Which of the following are true for IBM Cloud® Databases and IBM Cloud® Database-as-a-Services? (Select Three)

A. There are predictable, periodic charges, based on the services consumed.

B. They are managed by IBM, unless customers specifically request to manage some aspects themselves.

C. They feature enterprise grade security, including encryption of data at rest and in transit.

D. Users must purchase and set up their own hardware.

ANSWER: A B C

Explanation:

IBM Cloud® Databases and IBM Cloud® Database-as-a-Services (DBaaS) are fully managed by IBM, unless customers specifically request to manage some aspects themselves.

IBM Cloud® Databases and DBaaS offers your organization significant financial, operational, and strategic benefits like below:

- Your organization pays a predictable periodic charge based on the resources you consume—there's no need to purchase additional capacity to have on hand for hypothetical future needs.

- You can quickly and easily scale-up and down as per your need.

- They are highly available, secure with IBM enterprise security, compatible with open-source databases, scalable, and economical including features like default encryption of data at rest and in-transit and integrated identity and access management controls. Some also meet specific regulatory compliance standards.

IBM's catalog of database services includes:

1. IBM Cloudant, IBM Cloud®Databases for etcd

2. IBM Cloud® Databases for MongoDB

3. IBM Cloud® Databases for PostgreSQL

4. IBM Cloud® Databases for Redis Elasticsearch

QUESTION NO: 6

What is true regarding SSL certificates to be used to encrypt traffice between IBM cloud and public network using SSL/TLS?

A. IBM Cloud Processes the SSL certification details for management purposes.

B. Certificate must be ordered via IBM cloud

C. SSL certificate can be managed through the IBM cloud console

D. Bring Your Own Certificate should be managed by the SSL orders screen.

ANSWER: C

Explanation:

SSL (Secure Socket Layer) allows information to travel from browser to server and back again using a secured transmission tunnel to combat eavesdropping. Verification amount depends on the style of SSL certificate involved. You can manage your SSL certificates in the IBM Cloud® console. Within the IBM Cloud console, all SSL certificates ordered through IBM Cloud can be managed from the SSL Orders screen. This screen tracks all orders, including the common name, certificate type, and expiration date of the certificate but does not contain any certificate-specific details such as the certificate itself or the Private Key. From this screen, current and expired SSL certificates can be renewed under their pre-existing terms, and fulfillment emails can be requested to receive the SSL certificate details if they are lost. All requests that are made from the SSL Orders screen are routed to the appropriate certificate authority for the SSL certificate, which fulfills the requests as necessary. Because IBM Cloud does not possess the SSL certificate details, IBM Cloud is unable to provide any additional information about the certificate.

QUESTION NO: 7

Which of the following include the common goals of application modernization? Select all that apply.

A. Microservices architecture

B. DevOps

C. Cloud migration

D. Portability

ANSWER: A B C

In Activity Tracker, what does IBM Cloud monitor, by default, as its pertains to encryption?

A. Events around a keys usage

B. Events around the lifecycle of keys

C. Events around decryption

D. Events around encryption

ANSWER: B

Explanation:

IBM Cloud® Activity Tracker records events in compliance with the CADF standard. These events are triggered by user-initiated activities that change the state of a service in the cloud. The solution empowers users to see, manage and analyze cloud actions. IBM Cloud® encrypts all data in transit, and you can encrypt your data at rest with your own keys, and then monitor the events around the lifecycle of the encryption keys with IBM Cloud® Activity Tracker. IBM Cloud® supports multiple encryption options, whether you're looking for a solution that supports the bring your own key (BYOK) or keep your own key (KYOK) functionality. For an in-depth look at the options to secure your data depending on your organization's needs

Block Storage LUNs can be provisioned from 20 GB to 12 TB with which 2 options?

A. Scalable

B. Endurance

C. Performance

D. Redundant

E. Distributed

ANSWER: A E

Which of the following are benefits of Cloud Internet Service? (Select Two)

A. Logging

B. Rate Limiting

C. Caching

D. Auditing

ANSWER: B C

Explanation:

IBM Cloud Internet Services provides reliability, performance, and security for Internet facing applications, websites, and services. One of the services Cloud Internet Services provides is a global load balancer. This service enables traffic to be distributed across multiple servers located in multiple regions. Using Cloudflare, Cloud Internet Services (CIS) provides Domain Name Service (DNS), Global Load Balancer (GLB), DDoS protection, Web Application Firewall (WAF), Transport Layer Security (TLS), Rate Limiting, Smart Routing, and Caching.

QUESTION NO: 11

Within the security and compliance center how are the IBM default property values overridden when a resource is provisioned in an account?

A. Templets

B. Credentials

C. Rules

D. Roles

ANSWER: A

Explanation:

By using the IBM Cloud® Security and Compliance Center, you can significantly decrease the likelihood of a misconfiguration-related security issue by setting guardrails around the way that your resources can be configured. With the Configuration Governance component of the Security and Compliance Center, you are able to define rules and templates that can help to standardize your organizations resource configuration. When you create a rule and enable enforcement, you can apply it to your entire enterprise, account, or a subset of your resources by limiting your scope to a resource group. Then, when a rule is in place, a user in your account is unable to provision a resource or set a configuration that violates the rule. In some situations, resource configurations require multiple API calls to set. In these cases, you must also define a template in order for the resource to be configured. With templates, you can define your preferred values, or customized defaults, on properties that are used to configure an IBM Cloud resource. By creating templates that users in your accounts can regularly review and reference, you set guidelines for teams to follow. After you attach a template to a scope, your customized defaults are applied by target services to ensure that your selections override the IBM-defined values each time that a target resource is created.

QUESTION NO: 12

What IBM Console feature makes it possible for team members to get a shared view of computing resources and other vital cloud information?

A. Dashboard

B. Cost estimator

C. Support

D. Catalog

ANSWER: A

QUESTION NO: 13

Which type of database would be appropriate for shopping cart data?

A. Document

B. Relational

C. Key-Value

D. SQL

ANSWER: C

Explanation:

Key value databases are best at storing data that is structured but doesn't require the relational abilities of a relational database. Data are stored as a key value pair where the key is a unique identifier. These databases are used for storing leaderboards and shopping cart data.

QUESTION NO: 14

Which of the following are types of virtualizations? (Select Three)

A. CPU visualization

B. Application virtualization

C. Data center virtualization

D. Region virtualization

ANSWER: A B C

Explanation:

Virtualization is a process that allows for more efficient utilization of physical computer hardware and is the foundation of cloud computing.

Types of virtualization:

CPU (central processing unit) virtualization is the fundamental technology that makes hypervisors, virtual machines, and operating systems possible. It allows a single CPU to be divided into multiple virtual CPUs for use by multiple VMs.

Application virtualization runs application software without installing it directly on the user's OS. This differs from complete desktop virtualization (mentioned above) because only the application runs in a virtual environment—the OS on the end user's device runs as usual. There are three types of application virtualization:

Local application virtualization: The entire application runs on the endpoint device but runs in a runtime environment instead of on the native hardware.

Application streaming: The application lives on a server which sends small components of the software to run on the end user's device when needed.

Server-based application virtualization The application runs entirely on a server that sends only its user interface to the client device.

Data center virtualization abstracts most of a data center's hardware into software, effectively enabling an administrator to divide a single physical data center into multiple virtual data centers for different clients.

Each client can access its own infrastructure as a service (IaaS), which would run on the same underlying physical hardware. Virtual data centers offer an easy on-ramp into cloud-based computing, letting a company quickly set up a complete data center environment without purchasing infrastructure hardware.

QUESTION NO: 15

What VPC component makes it possible for an application, that is hosted on a virtual private cloud, to connect with an external database that is hosted on IBM Cloud classic bare metal servers?

A. VPN Gateway

B. IBM Cloud Direct Link Connect

C. IBM Cloud Direct Link Dedicated

D. IBM Cloud Transit Gateway

ANSWER: D