Exam Code: C1000-125

Exam Name: IBM Cloud Technical Advocate v3

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Question No: 1

Which storage for IBM Kubernetes Service (IKS) provides a highly available software-defined storage solution that can be used to manage local persistent storage for containerized databases and other stateful applications, or to share data between pods across multiple zones?

A. Cloud Object Storage

B. Portworx

C. Block Storage

D. File Storage

Answer: B

Explanation:

Reference: https://www.ibm.com/cloud/blog/announcements/introducing-the-portworx-softwaredefined-storage-solution

Question No: 2

Which problem does a multicloud strategy help alleviate?

A. Platform management

B. Platform visibility

C. Vendor lock-in

D. Scalability

Answer: C

Explanation:

Question No: 3

What is part of IBM Cloud Pak foundational services?

A. Security Information and Event Management Services

B. Identity and Access Management

C. Application Performance Monitoring

D. Support Ticketing Services

Answer: B

Explanation:

Question No: 4

With the IBM Cloud Juniper vSRX appliance, which secure VPN protocol is used to connect and encrypt traffic from an on-site data center to IBM Cloud?

A. Internet Protocol Security (IPsec)

B. Transport Layer Security (SSL/TLS)

C. WireGuard

D. Datagram Transport Layer Security (DTLS)

Answer: A

Explanation:

Reference: https://cloud.ibm.com/docs/vpc?topic=vpc-juniper-vsrx-config

Question No: 5

Which feature does the Red Hat OpenShift web console include?

A. Git

B. Docker Hub

C. Quay

D. OperatorHub

Answer: D

Explanation:

Reference: https://access.redhat.com/documentation/enus/openshift_container_platform/4.10/htmlsingle/web_console/index#:~:text=The%20Red%20Hat%20OpenShift%20Container,by%20a%20console%2Doperator%20pod

Question No: 6

Which applications are consistent with optimal application development, deployment, management, and performance across public, private, and multi-cloud environments?

A. Cloud-native

B. Monolith

C. Responsive Web Application

D. Mobile Application

Answer: A

Explanation:

Reference: https://www.listendata.com/what-is-cloud-native-application/

Question No: 7

A client's solution is deployed across a VMware cluster and AIX servers. Which IBM Cloud offerings can be used to deploy the solution to IBM Cloud?

A. IBM Cloud for VMware Solutions and IBM Power Systems Virtual Servers

B. IBM Cloud Virtual Servers for Classic Infrastructure and IBM Power Systems Virtual Servers

C. IBM Cloud Virtual Server for Virtual Private Cloud (VPC) and IBM Cloud Hyper Protect Virtual Servers

D. IBM Cloud for VMware Solutions and IBM Cloud Virtual Server for Virtual Private Cloud (VPC)

Answer: D

Explanation:

Question No: 8

An architect must design a Virtual Private Cloud (VPC) to only allow private connectivity to the corporate data center. Which IBM Cloud service accomplishes this requirement?

A. A Cloud Internet Services global load balancer

B. A Virtual Private Cloud (VPC) transit gateway

C. A Virtual Private Cloud (VPC) DNS service

D. Direct Link 2.0

Answer: B

Explanation:

Question No: 9

Which product would be appropriate for a client that uses IBM Power iSeries and needs to be able to replicate data to another IBM Power Virtual Server?

A. MIMIX

B. Veeam

C. Spectrum Protect

D. Zerto

Answer: A

Explanation:

Question No: 10

Which default ports are used by Satellite Link to correctly route requests for multiple destination resources?

A. 443 (HTTP) and 80 (HTTPS)

B. 8080 (HTTP) and 443 (HTTPS)

C. 80 (HTTP) and 8443 (HTTPS)

D. 80 (HTTP) and 443 (HTTPS)

Answer: D

Explanation:

Question No: 11

An architect has received the requirements to deploy a legacy application to the Cloud. The requirements indicate storage must have hierarchical structure, data encryption, and a large amount of storage. Which option meets these requirements?

A. Store on block storage then create multiple namespaces with one bucket each

B. Store data on the boot volume and access it by connecting to the compute instance

C. Store on file storage then create a file system and a mount target

D. Store on object storage then create a single namespace and multiple buckets to create the hierarchical directory structure
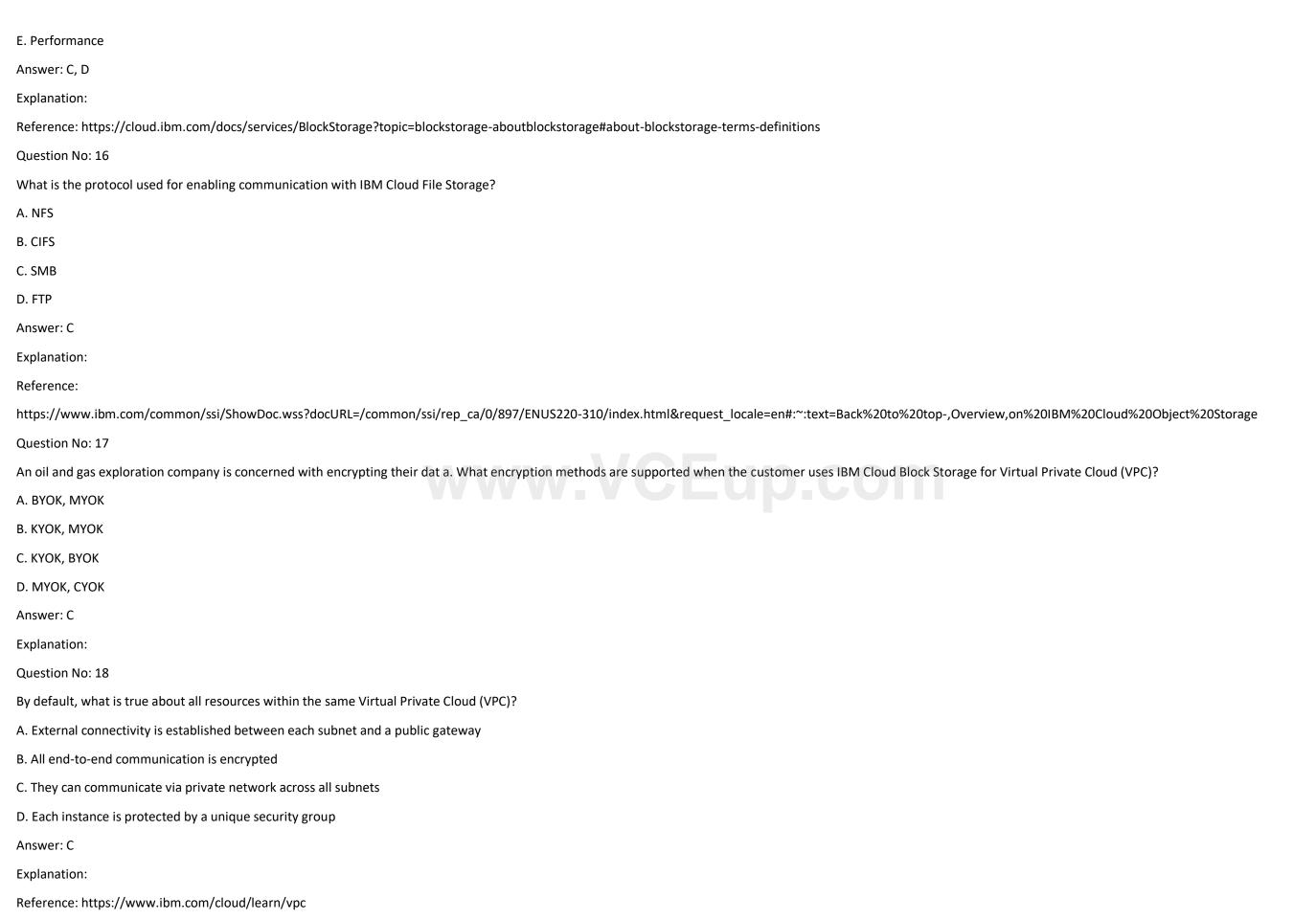
Answer: D

Explanation:

Question No: 12

IBM Cloud Hyper Protect Crypto Services provide a dedicated key management service and Hardware Security Module (HSM) that provides the Keep Your Own Key capability. What is a hardware security module (HSM)?

A. A bare metal server configured with anti-virus software and firewall rules to prevent a security breach

B. A physical USB key used to manage digital keys and provides crypto-processing

C. A software application that generates digital keys for strong authentication and distributes key information

D. A dedicated cryptographic processing system for key generation, encryption, decryption, and key storage

Answer: B

Explanation:

Question No: 13

What is a characteristic of a SQL database?

A. Eventual consistency

B. Unstructured data

C. ACID transactions

D. Fast access to key-value data

Answer: C

Explanation:

Question No: 14

What can be used to establish a private and secure connection between a client environment and IBM Cloud services?

A. Transient Endpoints

B. IBM Cloud Services Endpoints

C. VPN Endpoints

D. Virtual Public Endpoints

Answer: C

Explanation:

Question No: 15

What are two supported provisioning tiers for Block Storage - Classic on IBM Cloud? (Choose two.)

A. Autoscale

B. High Volume

C. Endurance

D. Secure

E. Performance

Answer: C, D

Explanation:

Reference: https://cloud.ibm.com/docs/services/BlockStorage?topic=blockstorage-aboutblockstorage#about-blockstorage-terms-definitions

Question No: 16

What is the protocol used for enabling communication with IBM Cloud File Storage?

A. NFS

B. CIFS

C. SMB

D. FTP

Answer: C

Explanation:

Reference:

https://www.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_ca/0/897/ENUS220-310/index.html&request_locale=en#:~:text=Back%20to%20top-,Overview,on%20IBM%20Cloud%20Object%20Storage

Question No: 17

An oil and gas exploration company is concerned with encrypting their dat a. What encryption methods are supported when the customer uses IBM Cloud Block Storage for Virtual Private Cloud (VPC)?

A. BYOK, MYOK

B. KYOK, MYOK

C. KYOK, BYOK

D. MYOK, CYOK

Answer: C

Explanation:

Question No: 18

By default, what is true about all resources within the same Virtual Private Cloud (VPC)?

A. External connectivity is established between each subnet and a public gateway

B. All end-to-end communication is encrypted

C. They can communicate via private network across all subnets

D. Each instance is protected by a unique security group

Answer: C

Explanation:

Reference: https://www.ibm.com/cloud/learn/vpc

Question No: 19

Which IBM Cloud service can monitor risk models for performance, bias and explainability to limit risk exposure from regulations and create more fair and explainable outcomes for customers?

A. Watson OpenScale

B. Watson Studio

C. Watson AI 360

D. Watson Trust & Compliance

Answer: A

Explanation:

Reference: https://www.ibm.com/downloads/cas/RYXBG8OZ#:~:text=and%20Explain%20Decisions-,Watson%20OpenScale,exposure%20and%20produce%20better%20outcomes

Question No: 20

Virtual servers on LinuxONE are available through which IBM Cloud compute option?

A. Hyper Protect Virtual Server

B. Bare Metal Server

C. VMware Server

D. Virtual Server

Answer: A

Explanation:

Reference: https://cloud.ibm.com/docs/vpc?topic=vpc-aboutse#:~:text=A%20virtual%20server%20instance%20that,Protect%20as%20the%20operating%20system

Question No: 21

A developer wants to deploy multiple private applications on Red Hat OpenShift on IBM Cloud in a Virtual Private Cloud (VPC). What would be required to implement custom routing rules and SSL termination for those multiple applications?

A. NodePort ID

B. Cisco Router

C. VPC load balancer

D. Ingress controller

Answer: D

Explanation:

Question No: 22

Resizing a VM to add additional compute or memory to increase throughput is part of which operational activity?

A. System rationalization

B. Vertical scaling

C. Horizontal scaling

D. Hardware virtualization

Answer: B

Explanation:

Question No: 23

Which type of database is recommended for storing highly-structured data records?

A. graph

B. key-value

C. relational

D. document

Answer: C

Explanation:

Question No: 24

Which deployment option allows a virtual desktop environment in IBM Cloud without having to worry about patching the desktop images?

A. Deploy Dizzion Managed DaaS service

B. Deploy Citrix Virtual Apps and Desktops service and Patching Service

C. Deploy Citrix Virtual Apps and Desktops service

D. Deploy Citrix Managed DaaS service

Answer: A

Explanation:

Question No: 25

What is an advantage of using Reserved Bare Metal Instances?

A. There is a possibility to have additional networking capability

B. Customers can upgrade instances as new types become available

C. There is a possibility of access to additional instance types

D. It is offered at a discount over on-demand pricing

Answer: D

Explanation:

Question No: 26

Which two encryption modes can be used on Virtual Server for Virtual Private Cloud (VPC)? (Choose two.)

A. Customer Managed

B. Provider Managed

C. IBM Cloud Pak for Security

D. Bring your Own Key (BYOK)

E. Third party managed

Answer: D, E

Explanation:

Question No: 27

When a Virtual Server Instance (VSI) is created in a Virtual Private Cloud (VPC), where is the network interface attached?

A. Domain

B. Container

C. Zone

D. Subnet

Answer: D

Explanation:

Reference: https://cloud.ibm.com/docs/vpc?topic=vpc-getting-started-network-interfaces

Question No: 28

How can an Account Administrator give a client's finance department access to the IBM Cloud account and not the data on the systems?

A. Remote Desktop into vCenter and insure the Finance Department has an account

B. Assign user access to account management services

C. Have the IT Security Department access the firewall and set up a rule

D. Get with the Server Admin and that individual can create a guest account

Answer: B

Explanation:

Question No: 29

What must a virtual server instance (VSI) in a virtual private cloud (VPC) reserve so that it can be accessed by clients outside the VPC?

A. VPE gateway for VPC

B. Direct Link

C. Floating IP address

D. VPN gateway for VPC

Answer: C

Explanation:

Question No: 30

What is the primary purpose of VLAN spanning?

A. It enables all devices on an account to communicate with each other using the private network

B. It enables all required private network devices to be blocked from public access

C. It enables all devices of all the customer accounts to communicate with customer provided applications

D. It enables public access to all required public network devices

Answer: C

Explanation:

Question No: 31

What are the types of connections available via IBM Cloud Direct Link?

A. Direct Link Security and Direct Link Usage

B. Direct Link Dedicated and Direct Link Connect

C. Direct Link Monitoring and Direct Link Operations

D. Direct Link Network and Direct Link Management

Answer: B

Explanation:

Reference: https://www.ibm.com/cloud/direct-link

Question No: 32

Which two are components of Cloud infrastructure that can be included in an IaaS computing service model? (Choose two.)

A. Containers

B. Software

C. Storage

D. Network

E. API

Answer: C, D

Explanation:

Reference: https://www.techtarget.com/searchcloudcomputing/definition/Infrastructure-as-a-Service-IaaS#:~:text=In%20an%20IaaS%20service%20model,the%20virtualization%20or%20hypervisor%20layer

Question No: 33

What is a container image?

A. A read-write docker file specifying all properties of a container

B. A read-only file that includes commands and instructions to run a container

C. A read-only static file that includes executable code, libraries, and dependencies that are required by an application to run

D. A running process on the host operating system specifying the container's key-value configuration

Answer: C

Explanation:

Reference: https://www.techtarget.com/searchitoperations/definition/containerimage#:~:text=A%20container%20image%20is%20an,information%20technology%20(IT)%20infrastructure

Question No: 34

What makes it possible to run multiple virtual machines on a bare metal server?

A. Disk

B. Virtualization

C. Memory

D. Cores

Answer: B

Explanation:

Reference: https://www.ibm.com/cloud/learn/virtualmachines#:~:text=Virtualization%20makes%20it%20possible%20to,on%20a%20single%20physical%20machine

Question No: 35

IBM Cloud offers which two container orchestration platforms as managed services? (Choose two.)

A. Apache Mesos

B. Red Hat OpenShift

C. Tanzu

D. Kubernetes

E. Docker Swarm

Answer: D, E

Explanation:

Reference: https://www.ibm.com/cloud/learn/containers

Question No: 36

Which component of a Virtual Private Cloud (VPC) filters traffic based on IP address?

A. Security group

B. Zone

C. Hardware firewall

D. Public gateway

Answer: C

Explanation:

Question No: 37

Which statement is true about microservices?

A. They share a common data store such as a relational database or object storage

B. They communicate with one another over a combination of REST APIs, event streaming, or message brokers

C. They should only be updated in conjunction with other dependent microservices

D. They encapsulate more than one function in each microservice

Answer: B

Explanation:

Question No: 38

Which feature offers the most isolation from other network traffic when a client connects their onpremises corporate network into IBM Cloud?

A. IBM Cloud Virtual Servers for Virtual Private Cloud (VPC)

B. IBM Cloud Direct Link

C. IBM Fortigate Appliance

D. IBM Cloud Transit Gateway

Answer: B

Explanation:

Question No: 39

How can a client leverage IBM Cloud to deploy a dedicated environment that is not shared with any other client and keep control of the virtualization layer?

A. Deploy dedicated instances

B. Deploy dedicated virtual servers

C. Deploy bare metal servers

D. Deploy virtual hosts

Answer: C

Explanation:

Question No: 40

Which common mode of storage in the cloud is both highly distributed and resilient?

A. File Storage

B. Block Storage

C. Flash Storage

D. Object Storage

Answer: D

Explanation:

Reference: https://www.coursera.org/lecture/introduction-to-cloud/overview-of-cloudinfrastructure-FpfkT

Question No: 41

What was the earliest implementation of cloud computing?

A. Providing compute resources for complex problems such as asteroid tracking

B. LAN parties and cyber cafes

C. Indexing large data sets across universities

D. Selling unused time slices of computing

Answer: C

Explanation:

Question No: 42

What is a component of a Virtual Private Cloud (VPC) on IBM Cloud?

A. Buckets

B. Access Key

C. Objects

D. Public Gateways

Answer: D

Explanation:

Reference: https://www.ibm.com/cloud/architecture/architectures/virtual-private-cloud/

Question No: 43

Which encryption feature is used by IBM Cloud File Storage - Classic?

A. End-to-end encryption

B. Payment Card Industry (PCI)

C. Encryption at Rest

D. Federal Information Security Management Act (FISMA)

Answer: C

Explanation:

Reference: https://www.ibm.com/cloud/file-storage/features

Question No: 44

Which metric can be utilized by a horizontal pod autoscaler (HPA) in IBM Cloud Kubernetes Service

(IKS)?

A. CPU utilization

B. Network latency

C. Cluster efficiency

D. Worker node count

Answer: A

Explanation:

Question No: 45

A retailer wants to move their VMware 6 environment to IBM Cloud. Their IT engineers have used NFS for their datastores and want to continue that practice on IBM Cloud. Which storage service should be presented?

A. Block Storage - Classic

B. Object Storage

C. Portworkx

D. File Storage - Classic

Answer: D

Explanation:

Question No: 46

What would a developer use to deploy serverless code closer to users across global points of presence?

A. IBM Edge Application Manager

B. IBM Cloud Internet Services Edge Functions

C. IBM Kubernetes Service

D. IBM Code Engine

Answer: B

Explanation:

Reference: https://www.ibm.com/cloud/blog/edge-computing-for-serverlessapplications#:~:text=Edge%20Functions%20allows%20you%20to,application's%20performance%20and%20reduce%20latency

Question No: 47

What is a multi-zone region?

A. A region that achieves zero failures across its data centers

B. A region that is comprised of three or more zones that are independent of each other

C. A region that is comprised of a single active zone and multiple standby zones

D. A region that hosts network, computing, and storage resources for its deployed services and applications

Answer: B

Explanation:

Question No: 48

What are the two types of network access controls that comprise the layers of Virtual Private Cloud (VPC) security? (Choose two.)

A. User Control List

B. Access Control Routes

C. Security Groups

D. Access Control List

E. IAM Groups

Answer: C, D

Explanation:

Question No: 49

Which two types of endpoints are utilized by IBM Cloud Satellite? (Choose two.)

A. Cloud

B. Satellite

C. Region

D. Server

E. Location

Answer: B, E

Explanation:

Reference: https://cloud.ibm.com/docs/satellite?topic=satellite-link-locationcloud#:~:text=You%20can%20create%20two%20types,endpoint%2C%20or%20a%20location%20endpoint.&text=Destination%20resource%20runs%20outside%20of%20the%20Satellite%20location

Question No: 50

Which rung of the IBM AI Ladder is described as scale business insight with artificial intelligence everywhere?

A. Analyze

B. Collect

C. Infuse

D. Organize

Answer: C

Explanation:

Question No: 51

An insurance company has standardized on IBM's Spectrum Protect Plus software. They want to use IBM Cloud for disaster recovery. What would be included in a solution?

A. GlusterFS

B. Ceph Storage

C. Object Storage

D. Elastic Storage

Answer: C

Explanation:

Reference: https://www.ibm.com/products/ibm-spectrum-protect-plus

Question No: 52

Which service on IBM Cloud provides open source tools such as RStudio and Jupyter Notebooks to support flexible model creation?

A. Watson Machine Learning

B. Watson Studio

C. Watson Knowledge Studio

D. SPSS

Answer: B

Explanation:

Reference: https://cloud.ibm.com/catalog/services/watsonstudio#:~:text=Watson%20Studio%20%2D%20IBM%20Cloud

Question No: 53

A solution requires data from a company's SAP ERP system. If completing the job as soon as possible is the most important factor, which technology is the right choice?

A. IBM API Connect because the ERP system can generate JSON

B. IBM App Connect has pre-built smart connectors that eliminate mismatches in data formats and standards

C. IBM MQ, while more complex, will provide assured delivery of information from the ERP system

D. IBM Event Streams allows the ability to future-proof the integration in case future projects need the same SAP data

Answer: B

Explanation:

Question No: 54

What are benefits for businesses to integrate cloud into their business strategy?

A. Increase personnel expense to enable solutions and offerings

B. Increase capital expenditures for market solutions

C. Increase speed, agility, innovation, and decision-making

D. Faster go to market strategies regardless of performance

Answer: C

Explanation:

Question No: 55

What is the main functionality of Zerto for VMware?

A. Application performance

B. Security

C. Replication and recovery

D. Backup and private connectivity

Answer: C

Explanation:

Reference: https://www.zerto.com/solutions/workloads-and-applications/vmwarevsphere/#:~:text=Zerto%20for%20VMware%20replaces%20legacy,seconds%20with%20always%2Don%20replication

Question No: 56

What is the serverless platform service used to create and run containerized workloads?

A. Code Engine

B. Digital Transcoding

C. Visual Builder

D. IBM Cloud Pak for Data

Answer: A

Explanation:

Reference: https://developer.ibm.com/series/ibm-cloud-code-engine-managed-serverlessplatform/#:~:text=IBM%20Cloud%20Code%20Engine%20is,underlying%20infrastructure%20and%20its%20security

Question No: 57

Hyperledger Fabric is the underlying technology in which IBM Cloud service?

A. Watson

B. Blockchain

C. Internet of Things

D. Analytics

Answer: B

Explanation:

Reference:

https://www.ibm.com/topics/hyperledger#:~:text=The%20IBM%20Blockchain%20Platform%20is%20IBM's%20commercial%20distribution%20of%20Hyperledger,and%20operating%20your%20blockchain%20solution

Question No: 58

What is a benefit for a company that modernizes legacy applications?

A. It is crucial that today's companies stay ahead of the evolution of computing technologies

B. Takes the compute solution from a nice-to-have, cost-cutting technology today, to one that drives transformation across and within industries

C. Accelerates digital transformation, improve developer productivity, improve operational efficiency and standardization

D. Applications and services can be rapidly provisioned and released with minimal management effort or service provider interaction

Answer: D

Explanation:

Reference: https://www.hakunamatatatech.com/our-resources/blog/applicationmodernization/#:~:text=Modernization%20of%20legacy%20applications%20enhances,current%20and%20future%20business%20demands

Question No: 59

What is the default external traffic networking service used by the IBM Cloud Red Hat OpenShift service?

A. Gateway

B. Egress

C. Cluster

D. Routes

Answer: D

Explanation:

Reference: https://cloud.ibm.com/docs/openshift?topic=openshift-openshift_routes

Question No: 60

A web application is being delivered for a regional shoe store to handle orders for delivery. Most of the application is deployed on public cloud, but requires completed orders to be routed to a centralized system on-premises for the warehouse to coordinate orders.

Key requirements of this integration are that messages are delivered without duplicates, it handles connectivity issues, and the data is encrypted end-to-end. Which IBM solution is suited for this use case?

A. IBM API Connect

B. IBM MQ

C. IBM Aspera

D. IBM Event Streams

Answer: B

Explanation:

Question No: 61

What is true of a Virtual Private Cloud (VPC)?

A. It can communicate with other Virtual Private Clouds (VPCs) through a public gateway

B. It is deployed to a single region but cannot span zones

C. It can only be deployed to single zone regions

D. It is deployed to a single region and can span zones

Answer: D

Explanation:

Reference:

https://www.ibm.com/cloud/learn/vpc#:~:text=A%20VPC%20gives%20an%20enterprise,place%20on%20the%20public%20cloud

Question No: 62

Which Virtual Private Cloud (VPC) component is used to connect a subnet to the public internet?

A. A VPN gateway

B. A transit gateway

C. A pubic gateway

D. A floating ip address

Answer: C

Explanation:

Question No: 63

What is a resource group in IBM Cloud?

A. A set of provisioned services labeled with the same tag

B. A group of resources that can be created on demand using a Terraform script

C. Application resources that have been placed in the same zone

D. A way to organize a set of account resources so users' access can be quickly assigned

Answer: D

Explanation:

Reference: https://cloud.ibm.com/docs/account?topic=account-resourcesfaq#:~:text=What%20is%20a%20resource%20group,resource%20group%20within%20your%20account

Question No: 64

What is a valid alternative for a client who wants to store a large number of documents in a database in IBM Cloud?

A. Leverage a SQL database such as PostgreSQL

B. Leverage a NoSQL database such Elasticsearch

C. Leverage a NoSQL database such as Cloudant

D. Leverage a SQL database such as DB2

Answer: C

Explanation:

Reference: https://cloud.ibm.com/docs/Cloudant?topic=Cloudant-ibm-cloud-public