

CompTIA CLO-002



CompTIA Cloud Essentials+

Version: 1.0

QUESTION NO: 1

A company is moving to the cloud and wants to enhance the provisioning of compute, storage, security, and networking. Which of the following will be leveraged?

- A.**
Infrastructure as code
- B.**
Infrastructure templates
- C.**
Infrastructure orchestration
- D.**
Infrastructure automation

Answer: D

Explanation:

QUESTION NO: 2

Which of the following services would restrict connectivity to cloud resources?

- A.**
Security lists
- B.**
Firewall
- C.**
VPN
- D.**
Intrusion detection system

Answer: A

Explanation:

QUESTION NO: 3

Which of the following cloud characteristics helps transform from a typical capital expenditure model to an operating expenditure model?

- A.**
Pay-as-you-go
- B.**
Elasticity
- C.**
Self-service
- D.**
Availability

Answer: A

Explanation:

QUESTION NO: 4

Which of the following DevOps options is used to integrate with cloud solutions?

- A.**
Provisioning
- B.**
API
- C.**
SOA
- D.**
Automation

Answer: B

Explanation:

QUESTION NO: 5

A document that outlines the scope of a project, specific deliverables, scheduling, and additional

specific details from the client/buyer is called a:

- A.**
statement of work.
- B.**
standard operating procedure.
- C.**
master service document.
- D.**
service level agreement.

Answer: D

Explanation:

QUESTION NO: 6

The cloud consumer compliance team requires the IT department to patch and update cloud resources properly. Which of the following cloud service delivery models will BEST suit this need?

- A.**
SaaS
- B.**
DBaaS
- C.**
DRaaS
- D.**
IaaS

Answer: D

Explanation:

QUESTION NO: 7

Which of the following are the main advantages of using ML/AI for data analytics in the cloud as

opposed to on premises? (Choose two.)

A.

Cloud providers offer enhanced technical support.

B.

Elasticity allows access to a large pool of compute resources.

C.

The shared responsibility model offers greater security.

D.

AI enables DevOps to build applications easier and faster.

E.

A pay-as-you-go approach allows the company to save money.

F.

ML enables DevOps to build applications easier and faster.

Answer: B,E

Explanation:

QUESTION NO: 8

A web application was deployed, and files are available globally to improve user experience. Which of the following technologies is being used?

A.

SAN

B.

CDN

C.

VDI

D.

API

Answer: B

Explanation:

QUESTION NO: 9

Volume, variety, velocity, and veracity are the four characteristics of:

- A.**
machine learning.
- B.**
Big Data.
- C.**
microservice design.
- D.**
blockchain.
- E.**
object storage.

Answer: B

Explanation:

QUESTION NO: 10

A SaaS provider specifies in a user agreement that the customer agrees that any misuse of the service will be the responsibility of the customer. Which of the following risk response methods was applied?

- A.**
Acceptance
- B.**
Avoidance
- C.**
Transference
- D.**
Mitigation

Answer: C

Explanation:

QUESTION NO: 11

A cloud administrator for an ISP identified a vulnerability in the software that controls all the firewall rules for a geographic area. To ensure the software upgrade is properly tested, approved, and applied, which of the following processes should the administrator follow?

- A.**
Configuration management
- B.**
Incident management
- C.**
Resource management
- D.**
Change management

Answer: A

Explanation:

QUESTION NO: 12

A small online retailer is looking for a solution to handle the high load on its servers during the holiday season. The retailer is not currently ready to move its IT operations completely to the cloud.

Which of the following will BEST fit these requirements?

- A.**
Elasticity
- B.**
Scalability
- C.**
Bursting

D.
Self-service

Answer: B
Explanation:

QUESTION NO: 13

A business analyst is drafting a risk assessment.

Which of the following components should be included in the draft? (Choose two.)

- A.**
Asset management
- B.**
Database type
- C.**
Encryption algorithms
- D.**
Certificate name
- E.**
Asset inventory
- F.**
Data classification

Answer: A,F
Explanation:

QUESTION NO: 14

Which of the following is a cloud service model that organizations use when their third-party ERP tool is provided as a complete service?

A.

Public cloud

B.

SaaS

C.

Hybrid cloud

D.

IaaS

Answer: B

Explanation:

QUESTION NO: 15

A cloud systems administrator needs to migrate several corporate applications to a public cloud provider and decommission the internal hosting environment. This migration must be completed by the end of the month. Because these applications are internally developed to meet specific business accounting needs, the administrator cannot use an alternative application.

Which of the following BEST describes the approach the administrator should use?

A.

Hybrid deployment

B.

Phased migration

C.

Lift and shift

D.

Rip and replace

Answer: C

Explanation:

QUESTION NO: 16

A cloud administrator suggested using spot instances to reduce cloud costs for part of a new cloud infrastructure.

Which of the following conditions must be addressed by the application that will run on these instances?

- A.**
The application needs to store data in a database.
- B.**
There is a restriction for distributed network communications.
- C.**
The application needs to handle unpredictable instance termination.
- D.**
Resource-intensive compute loads will be forbidden.

Answer: C

Explanation:

QUESTION NO: 17

An organization wants to migrate a locally hosted application to a PaaS model. The application currently runs on a 15-year-old operating system and cannot be upgraded.

Which of the following should the organization perform to ensure the application will be supported in the cloud?

- A.**
Risk register
- B.**
Feasibility study
- C.**
Benchmarks
- D.**
Baseline

Answer: B

Explanation:

QUESTION NO: 18

Transferring all of a customer's on-premises data and virtual machines to an appliance, and then shipping it to a cloud provider is a technique used in a:

- A.**
phased migration approach.
- B.**
replatforming migration approach.
- C.**
rip and replace migration approach.
- D.**
lift and shift migration approach.

Answer: B

Explanation:

QUESTION NO: 19

Which of the following models provides the SMALLEST amount of technical overhead?

- A.**
SaaS
- B.**
PaaS
- C.**
MaaS
- D.**
IaaS

Answer: A

Explanation:

QUESTION NO: 20

A mobile application development team requires frequent software updates for a major launch of a customer-facing application. The business requirement is to be first-to-market on a new feature that leverages third-party-hosted services.

Which of the following is the BEST approach to use for speed and efficiency?

- A.**
Proprietary code solution
- B.**
Application programming interface
- C.**
Regression testing
- D.**
Production load testing

Answer: B

Explanation:

QUESTION NO: 21

A developer is leveraging a public cloud service provider to provision servers using the templates created by the company's cloud engineer.

Which of the following does this BEST describe?

- A.**
Subscription services
- B.**
Containerization
- C.**

User self-service

D.

Autonomous environments

Answer: C

Explanation:

QUESTION NO: 22

A company has defined a multicloud model.

Which of the following is the MOST important aspect to consider when defining the company's needs?

A.

Change management

B.

Data sovereignty

C.

Data portability

D.

Data classification

Answer: C

Explanation:

QUESTION NO: 23

A company wants to ensure its existing functionalities are not compromised by the addition of a new functionality.

Which of the following is the BEST testing technique?

A.

Regression

B.

Stress

C.

Load

D.

Quality

Answer: A

Explanation:

QUESTION NO: 24

A contract that defines the quality and performance metrics that are agreeable to both parties is called an:

A.

SOP.

B.

SOA.

C.

SOW.

D.

SLA.

Answer: D

Explanation:

QUESTION NO: 25

Following a risk assessment, a company decides to adopt a multicloud strategy for its IT applications.

Which of the following is the company trying to avoid as part of its risk mitigation strategy?

- A.**
Geo-redundancy
- B.**
Vendor lock-in
- C.**
High availability
- D.**
Data sovereignty

Answer: B

Explanation:

QUESTION NO: 26

Which of the following BEST describes how a cloud provider helps a company with security risk responses?

- A.**
Acceptance
- B.**
Mitigation
- C.**
Avoidance
- D.**
Transference

Answer: D

Explanation:

QUESTION NO: 27

A human resources department is considering a SaaS-based human resources portal and requires a risk analysis.

Which of the following are requirements to consider? (Choose two.)

- A.**
Support
- B.**
Threats
- C.**
Chargebacks
- D.**
Vulnerabilities
- E.**
Maintenance
- F.**
Gap analysis

Answer: A,D

Explanation:

QUESTION NO: 28

A company is in its second year of a three-year agreement with a cloud vendor. After the initial phase of the cloud migration, resource consumption has stabilized.

Which of the following would help the company reduce the cost of infrastructure?

- A.**
Reserved instances
- B.**
Pay-as-you-go
- C.**
Spot instances
- D.**
Bring your own license

Answer: A

Explanation:

QUESTION NO: 29

A project manager must inform the Chief Information Officer (CIO) of the additional resources necessary to migrate services to the cloud successfully.

Which of the following cloud assessments would be MOST appropriate to use for the recommendation?

- A.**
Feasibility study
- B.**
Gap analysis
- C.**
Future requirements
- D.**
Baseline report

Answer: B

Explanation:

QUESTION NO: 30

Which of the following is commonly used to forecast market trends?

- A.**
Serverless computing
- B.**
Data warehouse
- C.**
Machine learning
- D.**
Accelerated computing

Answer: C

Explanation:

QUESTION NO: 31

A company has been running tests on a newly developed algorithm to increase the responsiveness of the application. The company's monthly bills for the testing have been much higher than expected.

Which of the following documents should the company examine FIRST?

- A.**
Memory report
- B.**
Compute report
- C.**
Network report
- D.**
Storage report

Answer: C

Explanation:

QUESTION NO: 32

An organization's servers are experiencing performance degradation from oversubscription of memory in the virtual environment and exhausted physical RAM.

Which of the following cloud computing characteristics would BEST address the issue?

- A.**
Availability
- B.**
Elasticity

C.
Pay-as-you-go

D.
Self-service

Answer: B

Explanation:

QUESTION NO: 33

Which of the following cloud principles will help manage the risk of a network breach?

A.
Shared responsibility

B.
Self-service

C.
Availability

D.
Elasticity

Answer: A

Explanation:

QUESTION NO: 34

A report identified that several of a company's SaaS applications are against corporate policy.

Which of the following is the MOST likely reason for this issue?

A.
Shadow IT

B.
Sensitive data

C.
Encryption

D.
Vendor lock-in

Answer: B

Explanation:

QUESTION NO: 35

Which of the following BEST describes decreasing the resources assigned to a system to avoid paying for unused capacity?

A.
Orchestration

B.
Auto-scaling

C.
Right-sizing

D.
Scalability

Answer: C

Explanation:

QUESTION NO: 36

A systems administrator is reviewing a disaster recovery option that requires little to no downtime in the event of a natural disaster.

Which of the following BEST meets this requirement?

A.
Configure availability zones.

- B.**
Configure high availability.
- C.**
Configure geo-redundancy.
- D.**
Configure auto-scaling.

Answer: A

Explanation:

QUESTION NO: 37

After performing an initial assessment of a cloud-hosted architecture, a department wants to gain the support of upper management.

Which of the following should be presented to management?

- A.**
Project charter
- B.**
Feasibility study
- C.**
Managed services
- D.**
Pilot

Answer: A

Explanation:

QUESTION NO: 38

Which of the following are true about the use of machine learning in a cloud environment? (Choose two).

A.

Specialized machine learning algorithms can be deployed to optimize results for specific scenarios.

B.

Machine learning can just be hosted in the cloud for managed services.

C.

Just one type of cloud storage is available in the cloud for machine learning workloads.

D.

Machine learning can leverage processes in a cloud environment through the use of cloud storage and auto-scaling.

E.

Machine learning requires a specialized IT team to create the machine learning models from scratch.

F.

Using machine learning solutions in the cloud removes the data-gathering step from the learning process.

Answer: A,D

Explanation:

QUESTION NO: 39

A company with critical resources in the cloud needs to ensure data is available in multiple datacenters around the world.

Which of the following BEST meets the company's needs?

A.

Auto-scaling

B.

Geo-redundancy

C.

Disaster recovery

D.

High availability

Answer: B

Explanation:

QUESTION NO: 40

Which of the following can be used by a client's finance department to identify the cost of cloud use in a public cloud environment shared by different projects and departments?

- A.**
Reserved instances
- B.**
Service level agreement
- C.**
Resource tagging
- D.**
RFI from the CSP

Answer: C

Explanation:

QUESTION NO: 41

A company is migrating a legacy application to the cloud. Two C-level executives are currently engaged in the initial stages of the migration, and they are planning a rip-and-replace approach.

Before initiating the project, the FIRST step should be to identify:

- A.**
the required network performance.
- B.**
the key stakeholders.
- C.**
the desired CSP.
- D.**

the required cloud services.

E.

the required amount of storage.

Answer: C,D

Explanation:

QUESTION NO: 42

A company migrated all of its infrastructure to the cloud. The cloud security team must review the security post-migration.

Which of the following is the MOST appropriate task for the cloud security team to perform?

A.

Risk register

B.

Threat assessment

C.

Application scan

D.

Vulnerability scan

Answer: B

Explanation:

QUESTION NO: 43

A company wants to migrate mission-critical applications to the cloud. In order for technicians to build, decommission, and perform other routine functions, which of the following cloud characteristics would BEST satisfy this business requirement?

A.

Self-service

- B.**
Elasticity
- C.**
Broad network access
- D.**
Availability

Answer: A

Explanation:

QUESTION NO: 44

A company deploys a data management capability that reduces RPO. Which of the following BEST describes the capability needed?

- A.**
Locality
- B.**
Replication
- C.**
Portability
- D.**
Archiving

Answer: D

Explanation:

QUESTION NO: 45

A company is required to move its human resources application to the cloud to reduce capital expenses. The IT team does a feasibility analysis and learns the application requires legacy infrastructure and cannot be moved to the cloud.

Which of the following is the MOST appropriate cloud migration approach for the company?

- A.**
Lift and shift
- B.**
Hybrid
- C.**
Rip and replace
- D.**
In-place upgrade

Answer: B

Explanation:

QUESTION NO: 46

A company wants to process a batch job in a faster, cost-effective manner. Which of the following is the BEST solution?

- A.**
Implement right-sizing.
- B.**
Increase CPU usage.
- C.**
Utilize spot instances.
- D.**
Add storage.

Answer: C

Explanation:

QUESTION NO: 47

An IT team documented the procedure for upgrading an existing IT resource within the cloud. Which of the following BEST describes this procedure?

- A.**
Security procedure
- B.**
Incident management
- C.**
Change management
- D.**
Standard operating procedure

Answer: D

Explanation:

QUESTION NO: 48

A business analysis team is reviewing a report to try to determine the costs for a cloud application. The report does not allow separating costs by application.

Which of the following should the team use to BEST report on the costs of the specific cloud application?

- A.**
Right-sizing
- B.**
Content management
- C.**
Optimization
- D.**
Resource tagging

Answer: D

Explanation:

QUESTION NO: 49

A cloud administrator configures a server to insert an entry into a log file whenever an administrator logs in to the server remotely. Which of the following BEST describes the type of policy being used?

- A.**
Audit
- B.**
Authorization
- C.**
Hardening
- D.**
Access

Answer: A

Explanation:

QUESTION NO: 50

A company is migrating its e-commerce platform to a cloud service provider. The e-commerce site has a significant number of images. Which of the following is the BEST storage type for storing the images?

- A.**
Object
- B.**
Cold
- C.**
File
- D.**
Block

Answer: A

Explanation:

QUESTION NO: 51

A small business is engaged with a cloud provider to migrate from on-premises CRM software. The contract includes fixed costs associated with the product. Which of the following variable costs must be considered?

- A.**
Time to market
- B.**
Operating expenditure fees
- C.**
BYOL costs
- D.**
Human capital

Answer: D

Explanation:

QUESTION NO: 52

A company is discontinuing its use of a cloud provider. Which of the following should the provider do to ensure there is no sensitive data stored in the company's cloud?

- A.**
Replicate the data.
- B.**
Encrypt the data.
- C.**
Lock in the data.
- D.**
Sanitize the data.

Answer: D

Explanation:

QUESTION NO: 53

An online retailer wants to ensure its inventory for the holiday season is correct. The company does not have a large IT infrastructure or staff to collect and analyze sales information, customer analytics, marketing information, or trends. Which of the following cloud services will help the company analyze these metrics without a large investment in human capital?

- A.**
Containerization
- B.**
Big Data
- C.**
Microservices
- D.**
Blockchain

Answer: B

Explanation:

QUESTION NO: 54

Which of the following is an example of outsourcing administration in the context of the cloud?

- A.**
Managed services
- B.**
Audit by a third party
- C.**
Community support
- D.**
Premium support

Answer: A

Explanation:

QUESTION NO: 55

A cloud systems administrator needs to log in to a remote Linux server that is hosted in a public cloud. Which of the following protocols will the administrator MOST likely use?

- A.**
HTTPS
- B.**
RDP
- C.**
Secure Shell
- D.**
Virtual network computing

Answer: C

Explanation:

QUESTION NO: 56

Which of the following is the cloud storage technology that would allow a company with 12 nearly identical servers to have the SMALLEST storage footprint?

- A.**
Capacity on demand
- B.**
Compression
- C.**
Software-defined storage
- D.**
Deduplication

Answer: C

Explanation:

QUESTION NO: 57

A company has a perpetual license for a database application. Which of the following is the MOST cost-effective option when moving to the cloud?

- A.**
Fixed
- B.**
Subscription
- C.**
EULA
- D.**
BYOL

Answer: D

Explanation:

QUESTION NO: 58

A vendor stipulates it will provide incident response within two hours of a severity level A incident.

Which of the following does this describe?

- A.**
Maintenance agreement
- B.**
Managed service agreement
- C.**
Operating level agreement
- D.**
Service level agreement

Answer: D

Explanation:

QUESTION NO: 59

Which of the following would BEST provide access to a Windows VDI?

- A.**
RDP
- B.**
VPN
- C.**
SSH
- D.**
HTTPS

Answer: A

Explanation:

QUESTION NO: 60

Which of the following technologies would help a game company prepare its cloud infrastructure to support a global distribution workload of a newly released online game? (Choose two.)

- A.**
Auto-scaling
- B.**
VDI
- C.**
Data portability
- D.**
CDN
- E.**
Templates
- F.**
Blockchain

Answer: A,D

Explanation:

QUESTION NO: 61

An organization plans to keep three of its cloud servers online for another nine months and a fourth server online for a year. The current pricing is \$200 per month per server. The cloud provider announced the sale price of \$1,500 per year per reserved instance.

Which of the following represents the cost savings by converting all four of the cloud servers to reserved instances?

- A.**
\$900
- B.**
\$1,800
- C.**
\$2,400
- D.**
\$3,600

Answer: B

Explanation:

QUESTION NO: 62

Which of the following types of risk is MOST likely to be associated with moving all data to one cloud provider?

- A.**
Vendor lock-in
- B.**
Data portability
- C.**

Network connectivity

D.

Data sovereignty

Answer: A

Explanation:

QUESTION NO: 63

When selecting a cloud provider, which of the following is MOST likely to be a financial consideration?

A.

Proof of concept

B.

Request for information

C.

Licensing models

D.

Request for proposal

Answer: C

Explanation:

QUESTION NO: 64

A company's finance team is reporting increased cloud costs against the allocated cloud budget. Which of the following is the BEST approach to match some of the cloud operating costs with the appropriate departments?

A.

Right-sizing

B.

Scaling

C.
Chargeback

D.
Showback

Answer: C

Explanation:

QUESTION NO: 65

A new company directive requires all departments to ensure intellectual property is kept within a country's borders. Which of the following concepts BEST represents this requirement?

A.
Data portability

B.
Data security

C.
Data locality

D.
Data sovereignty

Answer: D

Explanation:

QUESTION NO: 66

Which of the following techniques helps an organization determine benchmarks for application performance within a set of resources?

A.
Auto-scaling

B.
Load testing

C.
Sandboxing

D.
Regression testing

Answer: B

Explanation:

QUESTION NO: 67

An incident response team requires documentation for an email phishing campaign against a company's email server. Which of the following is the BEST resource to use to start the investigation?

A.
Audit and system logs

B.
Change management procedures

C.
Departmental policies

D.
Standard operating procedures

Answer: A

Explanation:

QUESTION NO: 68

A startup company wants to use a CRM application to manage its sales and support organizations. The company does not have any IT staff. Which of the following cloud computing models is MOST appropriate for this company to use?

A.
CaaS

- B.**
PaaS
- C.**
IaaS
- D.**
SaaS

Answer: D

Explanation:

QUESTION NO: 69

When designing a new cloud-enabled application, an organization that is considering RTO and RPO is MOST likely concerned about:

- A.**
redundancy.
- B.**
load balancing.
- C.**
disaster recovery.
- D.**
high availability.

Answer: C

Explanation:

QUESTION NO: 70

Which of the following BEST explains the concept of RTOs for restoring servers to operational use?

- A.**
To reduce the amount of data loss that can occur in the event of a server failure

- B.**
To ensure the restored server is available and operational within a given window of time
- C.**
To ensure the data on the restored server is current within a given window of time
- D.**
To reduce the amount of time a particular server is unavailable and offline

Answer: B

Explanation:

QUESTION NO: 71

Which of the following results from implementing a proprietary SaaS solution when an organization does not ensure the solution adopts open standards? (Choose two.)

- A.**
Vendor lock-in
- B.**
Inability to enforce the SLA
- C.**
Lack of technical support
- D.**
Higher ongoing operational expenditure
- E.**
Integration issues
- F.**
Higher initial capital expenditure

Answer: A,E

Explanation:

QUESTION NO: 72

A requirement states that an application must be restored within six hours. Which of the following should be included in the SLA to satisfy this requirement?

- A.**
MTTR
- B.**
RPO
- C.**
ROI
- D.**
RTO

Answer: D

Explanation:

QUESTION NO: 73

A cloud administrator needs to enable users to access business applications remotely while ensuring these applications are only installed on company-controlled equipment. All users require the ability to modify personal working environments. Which of the following is the BEST solution?

- A.**
SSO
- B.**
VDI
- C.**
SSH
- D.**
VPN

Answer: D

Explanation: