

Correct Exam CLO-002 Cram & Marvelous CLO-002 Clearer Explanation & Precise CompTIA CompTIA Cloud Essentials+ Certification Exam



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CompTIA CLO-002 Exam Syllabus Topics:

Topic	Details
Cloud Concepts 24%	
Explain cloud principles.	<ol style="list-style-type: none"> 1. Service models <ul style="list-style-type: none"> • SaaS • IaaS • PaaS 2. Deployment models <ul style="list-style-type: none"> • Public • Private • Hybrid 3. Characteristics <ul style="list-style-type: none"> • Elastic • Self-service • Scalability • Broad network access • Pay-as-you-go • Availability 4. Shared responsibility model

<p>Identify cloud networking concepts.</p>	<ol style="list-style-type: none"> 1.Connectivity types <ul style="list-style-type: none"> • Direct connect • VPN 2.Common access types <ul style="list-style-type: none"> • RDP • SSH • HTTPS 3.Software-defined networking (SDN) 4.Load balancing 5.DNS 6.Firewall
<p>Identify cloud storage technologies.</p>	<ol style="list-style-type: none"> 1.Storage features <ul style="list-style-type: none"> • Compression • Deduplication • Capacity on demand 2.Storage characteristics <ul style="list-style-type: none"> • Performance • Hot vs. cold 3.Storage types <ul style="list-style-type: none"> • Object storage • File storage • Block storage 4.Software-defined storage 5.Content delivery network
<p>Summarize important aspects of cloud design.</p>	<ol style="list-style-type: none"> 1.Redundancy 2.High availability 3.Disaster recovery 4.Recovery objectives <ul style="list-style-type: none"> • RPO • RTO
<p>Business Principles of Cloud Environments 28%</p>	
<p>Given a scenario, use appropriate cloud assessments.</p>	<ol style="list-style-type: none"> 1.Current and future requirements 2.Baseline 3.Feasibility study 4.Gap analysis <ul style="list-style-type: none"> • Business • Technical 5.Reporting <ul style="list-style-type: none"> • Compute • Network • Storage 6.Benchmarks 7.Documentation and diagrams 8.Key stakeholders 9.Point of contact

<p>Summarize the financial aspects of engaging a cloud provider.</p>	<ol style="list-style-type: none"> 1. Capital expenditures 2. Operating expenditures 3. Variable vs. fixed cost 4. Licensing models <ul style="list-style-type: none"> • BYOL • Subscription 5. Contracts 6. Billing 7. Request for information 8. Human capital <ul style="list-style-type: none"> • Training • Professional development
<p>Identify the important business aspects of vendor relations in cloud adoptions.</p>	<ol style="list-style-type: none"> 1. Professional services <ul style="list-style-type: none"> • Time to market • Skill availability • Support • Managed services 2. Statement of work (SOW) 3. Service level agreement (SLA) 4. Training 5. Evaluations <ul style="list-style-type: none"> • Pilot • Proof of value • Proof of concept • Success criteria 6. Open-source vs. proprietary
<p>Identify the benefits or solutions of utilizing cloud services.</p>	<ol style="list-style-type: none"> 1. Identity access management <ul style="list-style-type: none"> • Single sign-on • Multifactor authentication • Federation 2. Cloud-native applications <ul style="list-style-type: none"> • Microservices • Containerization 3. Data analytics <ul style="list-style-type: none"> • Machine learning • Artificial intelligence • Big Data 4. Digital marketing <ul style="list-style-type: none"> • Email campaigns • Social media 5. Autonomous environments 6. IoT 7. Blockchain 8. Subscription services 9. Collaboration 10. VDI 11. Self-service

Compare and contrast cloud migration approaches.	<ol style="list-style-type: none"> 1. Rip and replace 2. Lift and shift 3. Hybrid 4. Phased
Management and Technical Operations 26%	
Explain aspects of operating within the cloud.	<ol style="list-style-type: none"> 1. Data management <ul style="list-style-type: none"> • Replication • Locality • Backup 2. Availability <ul style="list-style-type: none"> • Zones • Geo-redundancy 3. Disposable resources 4. Monitoring and visibility <ul style="list-style-type: none"> • Alerts • Logging 5. Optimization <ul style="list-style-type: none"> • Auto-scaling • Right-sizing
Explain DevOps in cloud environments.	<ol style="list-style-type: none"> 1. Provisioning <ul style="list-style-type: none"> • Infrastructure as code • Templates 2. Continuous integration/ continuous delivery 3. Testing in QA environments <ul style="list-style-type: none"> • Sandboxing • Load testing • Regression testing 4. Configuration management <ul style="list-style-type: none"> • Orchestration • Automation • Upgrades and patching 5. API integration

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CompTIA Cloud Essentials+ Certification Exam Sample Questions (Q278-

Q283):

NEW QUESTION # 278

How can an organization successfully implement a SaaS strategy?

- A. Continuously execute performance analytics to monitor providers
- **B. Manage the risks associated with bringing in external providers**
- C. Standardize on a limited set of virtual machines to increase security
- D. Open up internal databases with Web service access for easier access

Answer: B

NEW QUESTION # 279

Which of the following do business accountants prefer with respect to the cost of cloud computing?

- A. Budgets to be fixed
- **B. Costs that are related to profits**
- C. Costs that are related to number of users
- D. Costs to be fixed

Answer: B

NEW QUESTION # 280

An organization determines it cannot go forward with a cloud migration due to the risks involved. Which of the following types of risk response does this describe?

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

Answer: A

Explanation:

According to the CompTIA Cloud Essentials+ Study Guide, risk response is the process of developing and implementing strategies to address the identified risks in a cloud project¹. There are four types of risk response strategies: acceptance, transference, avoidance, and mitigation¹. Each strategy has its own advantages and disadvantages, depending on the nature and impact of the risk. Acceptance is the strategy of acknowledging the risk and its consequences, without taking any action to reduce or eliminate it. This strategy is suitable for risks that have low probability and low impact, or for risks that are unavoidable or too costly to address. Acceptance can be passive, where no contingency plans are prepared, or active, where some reserves or fallback options are allocated¹.

Transference is the strategy of shifting the risk and its responsibility to a third party, such as a cloud service provider, an insurance company, or a subcontractor. This strategy is suitable for risks that have high impact but low probability, or for risks that require specialized skills or resources to handle. Transference does not eliminate the risk, but it reduces the exposure and liability of the organization. However, transference also involves some costs and trade-offs, such as loss of control, dependency, or contractual issues¹.

Avoidance is the strategy of eliminating the risk and its causes, by changing the scope, plan, or design of the cloud project. This strategy is suitable for risks that have high probability and high impact, or for risks that are unacceptable or intolerable for the organization. Avoidance can be effective in removing the threat, but it can also result in missed opportunities, reduced benefits, or increased costs¹.

Mitigation is the strategy of reducing the probability and/or impact of the risk, by implementing some preventive or corrective actions. This strategy is suitable for risks that have moderate probability and impact, or for risks that can be controlled or minimized. Mitigation can be proactive, where actions are taken before the risk occurs, or reactive, where actions are taken after the risk occurs¹.

In the given scenario, an organization determines it cannot go forward with a cloud migration due to the risks involved. This describes the avoidance strategy, as the organization is eliminating the risk and its causes by changing the plan of the cloud project. The organization is avoiding the potential negative consequences of the cloud migration, but it is also foregoing the potential benefits and opportunities of the cloud adoption. Reference: 1: <https://www.comptia.org/training/books/cloud-essentials-clo-002-study-guide>, Chapter 7, page 241-243

NEW QUESTION # 281

Why is standardization of data formats important?

- A. It leads to more efficient machine utilization.
- B. It helps encourage innovation.
- C. It facilitates movement from one provider to another.
- D. It leads to a more mature stage of the cloud computing landscape

Answer: C

NEW QUESTION # 282

Which of the following is the result of performing a physical-to-virtual migration of desktop workstations?

- A. IaaS
- B. VDI
- C. SaaS
- D. VPN

Answer: B

Explanation:

VDI, or Virtual Desktop Infrastructure, is the result of performing a physical-to-virtual migration of desktop workstations. VDI is a technology that allows users to access and run desktop operating systems and applications from a centralized server in a data center or a cloud, instead of from a physical machine on their premises. VDI provides users with virtual desktops that are delivered over a network to various devices, such as laptops, tablets, or thin clients¹. VDI offers several benefits, such as improved security, reduced costs, increased flexibility, and enhanced performance².

SaaS, or Software as a Service, is not the result of performing a physical-to-virtual migration of desktop workstations, but a cloud service model that provides ready-to-use software applications that run on the cloud provider's infrastructure and are accessed via a web browser or an API³. SaaS does not involve migrating desktop workstations, but using software applications that are hosted and managed by the cloud provider.

IaaS, or Infrastructure as a Service, is not the result of performing a physical-to-virtual migration of desktop workstations, but a cloud service model that provides access to basic computing resources, such as servers, storage, network, and virtualization, that are hosted on the cloud provider's data centers and are rented on-demand. IaaS does not involve migrating desktop workstations, but renting infrastructure resources that can be used to host various workloads.

VPN, or Virtual Private Network, is not the result of performing a physical-to-virtual migration of desktop workstations, but a technology that creates a secure and encrypted connection between a device and a network over the internet. VPN does not involve migrating desktop workstations, but connecting to a network that can provide access to remote resources or services. Reference: What is VDI? Virtual Desktop Infrastructure Definition - VMware; VDI Benefits: 7 Advantages of Virtual Desktop Infrastructure; What is SaaS? Software as a service | Microsoft Azure; [What is IaaS? Infrastructure as a service | Microsoft Azure]; [What is a VPN? | HowStuffWorks].

NEW QUESTION # 283

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