IBM

C5050-284 Exam

Foundations of IBM Cloud Computing Architecture V4

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Question: 1

How does elastic scalability benefit users of cloud puting applications?

A. It is a tool for improving capacity planning and optimizing upfront investments
B. The cost of resources is incurred only when they are used and for as long as (or how much) they are used.
C. It reduces the cost of applications in the cloud because it relies only on a virtualized infrastructure which is cheaper than a physical infrastructure.
D. It allows for the incremental development of new application features in the cloud, which makes the applications more affordable to manage and operate.

Answer: C

Explanation:
Reference:
http://www.appneta.com/blog/virtualization-vs-cloud-computing-faq/

Question: 2

Which statement is true regarding a private cloud?

A. It is owned and operated for use by a single company that controls the virtualized resources and automated services.
B. It is provided by a distributed set of machines that are running at different locations while still connected to a single network.
C. Private cloud service providers own and operate the infrastructure at their data center and usually offer access only via the Internet.
D. It is composed of two or more clouds that remain distinct entities but are bound together and offer the benefits of multiple deployment models.

Answer: A

Explanation:
Reference:
http://www.ibm.com/cloud-computing/us/en/what-is-cloud-computing

Question: 3

What is required to implement the Efficiency principle of the IBM Cloud Computing Reference Architecture V4?

A. A very high degree of standardization to enable high degrees of automation.

B. Hosting of the cloud management platform and the cloud services in green data centers.

C. A shortest path strategy for optimal cloud service placement in multi-site cloud environments

D. Optimization of the cloud service response times and computing resources allocated by the services.

	Answer: A

Link: http://public.dhe.ibm.com/partnerworld/pub/certify/study_guide_c2030_284.pdf

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3.9.1. Efficiency Principle - Design for cloud-scale efficiencies:

When realizing cloud characteristics such as elasticity, self-service access, and flexible sourcing, the cloud design is strictly oriented to high cloud scale efficiencies and short time-to-delivery/time-to-change. To implement a cloud following this principle with that high level of efficiency and flexibility, a very high degree of standardization (i.e. minimal variety in the data center with respect to numbers of server, storage, network technologies, operating systems & versions, middleware products, applications, etc.) is required to enable high degrees of automation.

Question: 4

What can be done to make maximum use of the cloud computing interoperability principle?

A. Use standard protocols.

B. Use hardware and software of a single vendor.

C. Use the integration between OpenStack and CloudStack.

D. Employ multiple system integrators to build a private cloud.

	Answer: A

Explanation:

Reference:

Standards ensure interoperability.

Question: 5

A company wants to use cloud services in the future. What needs to be done first?

A. Use cloud migration services to move their production workload into a managed cloud.

B. Ask the IT department to work out a plan to reduce capital expenses using cloud services.

C. Analyze existing business processes and determine which of them can be realized using cloud services.

D. Ask the IT department to order multiple virtual machines from different cloud service providers and test them for performance.

	Answer: C

Explanation:

Reference:

http://www-03.ibm.com/certify/tests/objC2030-283.shtml

Question: 6

What are API marketplaces?

A. They are application stores for APIs that offer a variety of capabilities including multi-tenancy.
B. They are the location where third-party cloud service providers cross connect their networks.
C. They are where developers create APIs for consumption by lines of business looking to use cloud service providers.
D. They are where developers go to offer their services in creating functions for cloud computing public, private, and hybrid environments.

Answer: C

Explanation:
Reference:
http://www.ibm.com/developerworks/cloud/library/cl-RESTfulAPIsincloud/

Question: 7

A cloud architect must consider resiliency options when migrating enterprise workloads to cloud. What are some of the backup and recovery options that a cloud infrastructure provider should consider as part of their offering?

A. Backup and recovery for missing data in the database.
B. Backup and recovery for Error 404, Application file not found.
C. Backup and recovery for the customer's application password.
D. Backup and recovery of snapshots for database and application.

Answer: D

Question: 8

Which statement best describes cloud bursting in the context of hybrid clouds?

A. Removing cloud resources from a hybrid cloud.
B. Moving resources from a public to a private cloud.
C. Moving cloud resources from a private to a public cloud.
D. Extending cloud resource use across hybrid clouds on demand

Answer: C

https://en.wikipedia.org/wiki/Cloud_computing
Another example of hybrid cloud is one where IT organizations use public cloud computing resources to meet temporary capacity needs that can not be met by the private cloud.[71] This capability

enables hybrid clouds to employ cloud bursting for scaling across clouds.[3] Cloud bursting is an application deployment model in which an application runs in a private cloud or data center and "bursts" to a public cloud when the demand for computing capacity increases. A primary advantage of cloud bursting and a hybrid cloud model is that an organization only pays for extra compute resources when they are needed.[72] Cloud bursting enables data centers to create an in-house IT infrastructure that supports average workloads, and use cloud resources from public or private clouds, during spikes in processing demands.[73]

Question: 9

What are three components provided by an Infrastructure as a Service provider?

A. storage
B. network
C. compute
D. database
E. applications
F. object storage

Answer: ABC

http://public.dhe.ibm.com/partnerworld/pub/certify/study_guide_c2030_284.pdf
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IaaS: In this most basic cloud service model, IaaS providers offer resources including servers, storage and network. The virtual machines are run as guests by a hypervisor, such as Xen or KVM. Pools of hypervisors within the cloud operational support system support large numbers of virtual machines and the ability to scale services up and down according to customers' varying requirements. IaaS clouds often offer additional capabilities such as image management in a virtual image library, raw (block) and file-based storage, firewalls, load balancers, IP addresses, virtual local area networks (VLANs), and software bundles.

Question: 10

Which two options describe security measures for people within a cloud solution?

A. Data Policy Management
B. Data and Information Security
C. Threat and Intrusion Protection
D. Physical and Personal Security
E. Identity and Access Management

Answer: D, E

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