

IBM

Exam C5050-284

Foundations of IBM Cloud Computing Architecture V4

Version: 7.0

[Total Questions: 112]

Question No : 1

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

Reference:

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

Question No : 2

What must a hardware platform typically support for a cloud infrastructure?

- A. Virtualization
- B. VMware ESX
- C. Disk Mirroring
- D. High Availability

Answer: C

Question No : 3

When a company uses cloud services, what does the term cloud governance mean?

- A. Policies and definitions for workload optimization in a software defined environment.
- B. The board of cloud service providers that directs and manages the further development of cloud standards.
- C. The request to the consumer of a cloud service to accept the provider's terms and conditions before using the service.

D. Policies and principles to be applied for the use of cloud service in order to secure the company's applications and data.

Answer: D

Reference:

<http://www.ibm.com/developerworks/library/x-cloudpt3/>

Cloud governance involves **applying policies to the use of cloud services**. It can be useful to think of cloud governance by examining its opposite: the free-for-all chaos in which cloud services are used by an organization without any oversight in place. To avoid this chaos, put policies in place for cloud service use to control the leakage of private information to the cloud and to control the excessive use of cloud services (which must be paid for, after all). **With governance and security in place, cloud computing can be used in safety and confidence.**

Question No : 4

What is Regulatory Compliance in the scope of cloud computing?

- A. It is data encryption with easy to use key management for virtual and cloud environments.
- B. It is a set of internal policies defined by the line of business that the IT department must follow.
- C. It refers to externally imposed conditions on transactions in business systems and their companies.
- D. It is provided by the service provider who is responsible for securing the guest operating system, applications, data, and for meeting compliance regulations.

Answer: C

Question No : 5

Which statement describes cloud bursting in the design of the architecture?

- A. It can happen only in an off premise solution.
- B. The scenario when a cloud infrastructure breaks down due to heavy request load.
- C. Allocation of additional capacity during peak loads in an on premise hybrid solution.

D. Provisioning of non-critical environments like development and test in an off premise hybrid solution.

Answer: D

Question No : 6

Which statement is true about Infrastructure as a Service (IaaS)?

- A. Cloud IaaS providers generally price applications using a subscription fee and manage the infrastructure and platforms that run the applications.
- B. Cloud IaaS providers offer computers (physical or virtual machines) and the ability to scale services up and down according to customers' varying requirements.
- C. Cloud IaaS providers provide a cloud-based environment with everything required to support the complete lifecycle of building and delivering web-based (cloud) applications.
- D. Cloud IaaS providers deliver a computing platform, typically including: an operating system, a programming language execution environment a database, and a web server.

Answer: C

Reference:

<http://www.ibm.com/cloud-computing/in/en/what-is-cloud-computing.html>

<http://www.ibm.com/cloud-computing/in/en/what-is-cloud-computing.html>

Platform as a service **provides a cloud-based environment with everything required to support the complete lifecycle of building and delivering web-based (cloud) applications**—without the cost and complexity of buying and managing the underlying hardware, software, provisioning and hosting.

Infrastructure as a service provides companies with computing resources including servers, networking, storage, and data centre space on a pay-per-use basis.

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

IBM SoftLayer - Provides flexibility and choice in managing workloads with options to **use bare metal or virtualized, dedicated or shared servers**. Offers best-in-class performance and latency with our dark-fiber overlay network.

Question No : 7

Which IBM solution provides Platform as a Service?

- A. IBM Bluemix
- B. IBM System Director
- C. IBM Cloud Manager Services
- D. IBM Cloud Manager with OpenStack

Answer: A

Reference:

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

Pag 49

4.3.2.4. Platform as a Service.

4.3.2.4.1. IBM Bluemix.

4.3.2.4.2. IBM SmartCloud Application Services.

4.3.2.4.3. IBM PureApplication Service on SoftLayer.

4.3.2.4.4. IBM Mobile Innovation in the Cloud

Question No : 8

What are three fundamental infrastructure resource types managed within a cloud computing environment?

- A. Firewall
- B. Storage
- C. Network
- D. Compute
- E. Database
- F. Load Balancer

Answer: B,C,D

Question No : 9

What deployment model is most appropriate for IBM Mobile FirstProtect?

- A. a Platform as a Service
- B. a Software as a Service
- C. an Infrastructure as a Service
- D. a traditional data center deployment

Answer: D

Reference:

<http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=AN&subtype=CA&htmlfid=897/ENUS212-338>

Question No : 10

According to the Cloud Services Adoption Pattern, what is considered to be the set of services that make up the entry level for a Platform as a Service implementation?

- A. Management of Service Level Agreements, quality of service management, and security.
- B. Management of programming services and integration services with other clouds and applications.
- C. Management of development operations, continuous delivery, and application performance monitoring.
- D. Management of services through service catalog, automated service deployment and metering, resource

Answer: D

Question No : 11

Which statement is true for virtualization?

- A. It runs on UNIX-based operating systems only.
- B. It is an interchangeable term for cloud computing.

- C. It separates physical hardware into various pool resources.
- D. It can only be applied in the context of hybrid and public clouds

Answer: C

Reference:

<http://en.wikipedia.org/wiki/Virtualization>

Question No : 12

What is the primary indicator for a poor performing cloud environment?

- A. huge application server log files
- B. slow cloud services response time
- C. outage of the image library component
- D. ineffective IT operations implementation

Answer: A

Reference:

http://www.ibm.com/developerworks/websphere/techjournal/1208_hare/1208_hare.html

Question No : 13

What is a feature of Database as a Service?

- A. It uses a queriless language to easily access data structures.
- B. It allows the definition of objects which are different from normal database objects.
- C. It consists of a database manager component which controls all underlying database instances using an API.
- D. A Distributed Database Management System that manages the requirements of a distributed system while hiding the level of complexity from the user.

Answer: C

Explanation: <http://www.techopedia.com/definition/29431/database-as-a-service-dbaas>

DbaaS consists of a database manager component, which controls all underlying database instances via an API. This API is accessible to the user via a management console, usually a Web application, which the user may use to manage and configure the database and even provision or deprovision database instances.

Question No : 14

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

Question No : 15

Which statement is true regarding a private cloud?

- A. It is dedicated to a single customer.
- B. It is composed of a combination of cloud providers.
- C. It employs cloud bursting for scaling across clouds.
- D. Communication is affected over a non-trusted network.

Answer: C

Reference:

http://en.wikipedia.org/wiki/Cloud_computing

Question No : 16

Which two characteristics do common clouds and computing clusters have in common?

- A. Both provide compute as a service offerings.
- B. Both solutions share computing infrastructure that serves multiple applications.
- C. Both price resource utilization according to hardware characteristics such as CPU, memory, and storage.
- D. Both have the capability to elastically scale on demand as applications require more computing resources.
- E. Both are characterized by homogeneous infrastructure connected by high-speed networking such as InfiniBand.

Answer: B,E

Question No : 17

Which IBM cloud offering provides flexibility and choice with options to use bare metal, virtualized dedicated, or shared servers?

- A. IBM SoftLayer
- B. IBM Cloud Orchestrator
- C. IBM Service Management
- D. IBM Cloud Managed Services

Answer: A

Reference:

<http://www.ibm.com/cloud-computing/us/en/iaas.html>

Question No : 18

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

Reference:

<http://www.ibm.com/developerworks/cloud/library/cl-RESTfulAPIsincloud/>

Question No : 19

What does a cloud service provider have to consider when designing a new infrastructure service following the guidance of the ITIL Service Design volume?

- A.** RPO and RTO must be determined.
- B.** A High Availability design must be developed.
- C.** The service is planned to be rolled out to the production cloud environment as part of a new release of the cloud management software.
- D.** Service Level Agreements are applied to virtual machines which are dependent on the physical infrastructure on which the virtual machine is hosted.

Answer: D

Question No : 20

What is the role of the cloud service creator?

- A.** It can be a consumer of multiple cloud services for their own use.
- B.** It consumes other cloud services by leveraging and enhancing functionality exposed by the cloud service provider.
- C.** It is the individual, organization, or system which consumes service instances delivered by a particular cloud service.
- D.** It is responsible for the design, testing, implementation, and maintenance of management artifacts specific to a cloud service.

Answer: D

Reference: