IBM Cloud Professional Certification Program

Study Guide Series

Exam C1000-124: IBM Cloud Advocate v1

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Purpose of Exam Objectives

When an exam is developed, Subject Matter Experts work together to define the role the certified individual will fill. They define the tasks and knowledge that an individual would need to successfully perform this job role at the level specified. This creates the foundation for the objectives and measurement criteria, which form the basis of the certification exam.

Cloud certification question writers use these objectives to develop exam questions.

It is recommended that you review these objectives.

- Do you know how to complete the task in the objective?
- Do you know why that task needs to be done?
- Do you know what will happen if you do it incorrectly?

If you are not familiar with a task, go through the objective, perform that task in your own environment and read more information on the task. If there is an objective on a task, there is a high likelihood that you WILL see a question about it on the actual exam. The IBM Center for Cloud Training provides instructional learning path designed to prepare you to take the certification exam.

https://www.ibm.com/training/cloud/jobroles

After reviewing the objectives in this guide and completing your own research, take the assessment exam. While the assessment exam does not indicate which specific questions were answered incorrectly, it does indicate overall performance by section. This is a good indicator of preparedness or if further preparation is warranted.

Exam Objectives

Sections 1 – 4 are supported by the following curriculum:
https://cognitiveclass.ai/courses/introduction-to-cloud

Section 1 – Cloud computing and its essential characteristics, history, and emerging trends	
1.1.	List the essential characteristics of cloud computing
1.2.	Recognize the factors regarding the evolution and history of the Cloud
1.3.	Identify the key cloud service providers and their services
Section 2 – The business case for cloud computing	
2.1.	Recall the various factors related to a business case for Cloud Computing
2.2.	Recognize technologies supported by Cloud: AI, IoT, Blockchain, Analytics
Section 3 – Service and deployment models of cloud computing	
3.1.	Outline cloud computing service models: IaaS, PaaS, SaaS
3.2.	Differentiate between the cloud computing deployment Models: Public, Private, Hybrid
Section 4 – Components of cloud architecture	
4.1.	Define cloud architecture and infrastructure
4.2.	Define virtualization in relation to virtual machines and bare metal servers
4.3.	Define Secure Cloud Networks
4.4.	List the uses and functions of containers on the cloud
4.5.	Differentiate the concepts of direct attached, file, block, and object storage in Cloud
4.6.	Identify the function and use of Content Delivery Networks (CDN) within the cloud
4.7.	Differentiate between Hybrid Multicloud, serverless, and microservice cloud solutions
4.8.	Define Cloud Native and Application Modernization

Sections 5 – 8 are supported by the following curriculum:

https://cognitiveclass.ai/courses/ibm-cloud-essentials

Section 5 – Introduction to IBM Cloud	
5.1.	Recognize the various Locations, Regions, and Zones and the role they play in the IBM Cloud
5.2.	Differentiate between IBM Cloud Account Types and Support Plans
5.3.	Indicate how Account types can impact IBM Cloud management and support
5.4.	Recognize the components of the IBM Cloud Cost Estimator
5.5.	List the concepts relative to Access Management (IAM) in IBM Cloud
Section 6 – IBM Cloud Infrastructure (Compute, Networking, and Storage)	
6.1.	Differentiate between different compute options on IBM Cloud
6.2.	Differentiate Storage Services on IBM Cloud
6.3.	Define external facing network services on the IBM Cloud
6.4.	Indicate the features and functionalities of Virtual Private Clouds
6.5.	Define options for VMWare workloads on IBM Cloud
Section 7 – Deploying IBM Cloud Applications	
7.1.	Identify the various features and usage of containers, Kubernetes, and OpenShift on the IBM Cloud
7.2.	Differentiate between serverless compute options on the IBM Cloud
Section 8 – Services on IBM Cloud	
8.1.	Recognize the various IBM Cloud databases
8.2.	Identify application integration services in IBM Cloud
8.3.	List the uses and functions AI/ML services available on IBM Cloud
8.4.	Recognize the various analytic services on IBM Cloud
8.5.	Define DevOps and identify the DevOps services on the IBM Cloud
8.6.	Identify the blockchain options available on the IBM Cloud
8.7.	Define the basics of the Internet of Things platform on the IBM Cloud
8.8.	Recognize the IBM Cloud Paks option on IBM Cloud

Note: This is the high-level list of objectives; see below for more details on how each task is defined.

Next Steps

1. Review the available sample test for this exam to understand the types of questions the exam includes.
2. Visit https://www.ibm.com/training/cloud/jobroles to learn more about this role in a learning plan designed to prepare you for this exam.
3. Visit http://www.pearsonvue.com/ibm to take the assessment test for this exam ($30 per exam). Keep in mind the assessment exam can be taken as many times as you would like; however, you will still receive the same questions only in a different order.
    a. If you comfortably passed the assessment exam, return to http://www.pearsonvue.com/ibm to schedule your proctored exam session.
    b. If you failed the assessment exam, review how you did by section; focusing attention on the sections where you need improvement.