



IBM TRAINING

Ibm Cloud Professional Architect

Become an IBM Cloud Professional Architect. Design and implement secure, scalable enterprise solutions on IBM Cloud.

DURATION

Flexible

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

The IBM Cloud Professional Architect certification is meticulously designed for IT professionals aspiring to master the art of designing and implementing robust, scalable, and secure cloud solutions on the IBM Cloud platform. This comprehensive course delves deep into IBM Cloud's expansive service portfolio, teaching you how to architect complex, enterprise-grade cloud environments. You will gain expertise in infrastructure-as-a-service (IaaS), platform-as-a-service (PaaS), and various specialized services, including networking, security, data management, and AI/ML, all within the IBM Cloud ecosystem.

Participants will learn to translate business requirements into technical cloud architecture designs, focusing on high availability, disaster recovery, performance optimization, and cost efficiency. The curriculum emphasizes hands-on application of architectural best practices, leveraging core IBM Cloud technologies such as Virtual Private Cloud (VPC), Kubernetes Service, databases like Db2 on Cloud, and security services like Key Protect. This program is ideal for those seeking to become pivotal figures in their organization's cloud journey, leading the design and deployment of cutting-edge solutions.

Upon successful completion, you will possess the advanced skills required to act as a trusted advisor, designing and overseeing the implementation of intricate cloud solutions. This certification validates your ability to navigate the complexities of modern cloud architectures, ensuring business continuity and innovation on the IBM Cloud, thereby significantly boosting your career prospects in the rapidly evolving cloud computing landscape.

Level	Intermediate
Vendor	IBM

COURSE CURRICULUM

01 Module 1: IBM Cloud Platform Fundamentals & Architectural Principles

- Introduction to IBM Cloud services and deployment models (IaaS, PaaS, SaaS)
- Core architectural pillars: security, reliability, performance, cost optimization, operational excellence
- Understanding IBM Cloud Regions, Zones, and Resource Groups
- IBM Cloud Identity and Access Management (IAM) best practices

02 Module 2: Designing Secure and Resilient Cloud Solutions

- Network security principles on IBM Cloud: Security Groups, Network ACLs, VPN Gateways
- Data encryption strategies: Key Protect, Hyper Protect Crypto Services
- High Availability and Disaster Recovery strategies: Multi-Zone Regions, cross-region replication
- Monitoring, logging, and incident response with IBM Cloud Monitoring and Log Analysis

03 Module 3: Compute and Networking Architecture

- Designing Virtual Private Clouds (VPC): Subnets, public gateways, VPN connectivity
- Compute options: Virtual Servers for VPC, Bare Metal Servers, VMware Solutions on IBM Cloud
- Containerization with IBM Cloud Kubernetes Service (IKS) and Red Hat OpenShift on IBM Cloud
- Load Balancing, Content Delivery Networks (CDNs), and DNS services

04 Module 4: Data Services and Application Integration

- Architecting database solutions: IBM Db2 on Cloud, PostgreSQL, Cloudant, DataStax Enterprise
- Storage solutions: Object Storage, File Storage, Block Storage
- Message Queuing and Event Streaming: IBM MQ, Apache Kafka

- Integration services: API Connect, App Connect Enterprise

05 Module 5: Automation, Management, and Cost Optimization

- Infrastructure as Code (IaC) with Terraform on IBM Cloud Schematics
- DevOps practices and Continuous Integration/Continuous Delivery (CI/CD) pipelines
- IBM Cloud Satellite for hybrid cloud architecture management
- Cost management and optimization techniques: Resource tagging, usage analysis, budget alerts

06 Module 6: Advanced Cloud Architectures & Emerging Technologies

- Serverless computing with IBM Cloud Functions
- AI and Machine Learning services: Watson AI services, Machine Learning as a Service
- Blockchain as a Service on IBM Cloud
- Designing for compliance and regulatory requirements (e.g., GDPR, HIPAA)

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **IBM Cloud Solutions Architect**
- > **Enterprise Cloud Strategist (IBM Cloud Specialization)**
- > **Senior Hybrid Cloud Consultant (IBM Cloud Focus)**

FREQUENTLY ASKED QUESTIONS

Q: What are the key design principles emphasized in this IBM Cloud Professional Architect course for building highly available and fault-tolerant solutions?

This course rigorously emphasizes principles such as multi-zone redundancy, data replication across regions, and automated failover mechanisms. You will learn to architect solutions utilizing IBM Cloud's global infrastructure, implement robust networking configurations, and leverage services like IBM Cloud Kubernetes Service and Object Storage with built-in high availability features to ensure minimal downtime and rapid recovery from failures specific to the IBM Cloud ecosystem.

Q: Which foundational IBM Cloud services are crucial to master for someone pursuing this Professional Architect certification, and how are they integrated into architectural designs?

Mastering services like IBM Cloud Virtual Private Cloud (VPC) for networking, IBM Cloud Kubernetes Service (IKS) for container orchestration, IBM Cloud Object Storage for scalable data storage, and various database offerings (e.g., Db2 on Cloud) is crucial. The course teaches you how to integrate these services cohesively; for instance, connecting an IKS cluster within a secure VPC, storing application data in Object Storage, and securing access via IBM Cloud IAM to create end-to-end robust and secure IBM Cloud architectures.

Q: How does this certification specifically prepare me to lead digital transformation initiatives leveraging hybrid cloud strategies with IBM Cloud?

This certification equips you with the expertise to design seamless hybrid cloud solutions by integrating on-premises environments with IBM Cloud, often utilizing services like IBM Cloud Satellite and Direct Link. You will learn to architect consistent management planes, secure data flow, and deploy applications across hybrid landscapes, enabling your organization to modernize existing workloads, optimize resource utilization, and accelerate digital transformation while

maintaining data sovereignty and compliance on the IBM Cloud platform.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke