

IBM Certified Advisor Cloud Foundations v1 : Exam Prep Workshop

Cloud computing

- Cloud definition
- Cloud platform services
 - Infrastructure-as-a-Service (IaaS)
 - Platform-as-a-Service (PaaS)
 - Software-as-a-Service (SaaS)
- Types of Cloud
 - Public
 - Private
 - Hybrid
 - IBM Cloud
 - IBM Cloud Private

IBM Cloud

- Public Cloud
- Private cloud on IBM Cloud
- Hybrid cloud on IBM Cloud
- IBM Cloud Private
- Single cloud vs Multi-cloud Solution
- IBM Cloud Functions
 - Cloud Foundry
 - Containers - Docker
 - IBM Cloud Kubernetes Service
 - VMware Solutions Portal
 - VMware Cloud Foundation (VCF)
 - Virtual servers
 - Boot storage for virtual servers
 - Bare metal server
 - IBM Cloud Garage
 - IBM Cloud Garage Method

- IBM Garage Method Reference Architectures

Security

- Security Services
- Secure Gateway
- App ID
- IBM Cloud Virtual Private Cloud
- Vulnerability Advisor
- Cloud Internet Services
 - DDoS protection
 - WAF
 - Global load balancer
- IPSec VPN

Networking

- IBM Cloud Infrastructure global network
 - Public Network
 - Private network
 - IBM Cloud management network
- Account isolation in Bluemix Infrastructure
- How are VLANs used by IBM Bluemix Infrastructure?
- VLAN spanning in Bluemix Infrastructure
- Firewalls in IBM Cloud
 - Operating System level firewall
 - Multitenant firewall
 - Dedicated hardware firewall
 - FortiGate Security Appliance (FSA)
 - vRouter
- Load balancers
 - IBM Cloud LLB

- NetScaler
- IBM Cloud Infrastructure GSLB functionality
- Security Groups

DevOps

Monitoring

- Metrics
- Logging
- Synthetic Monitoring

Storage

- Cloud Storage
 - Block storage iSCSI
 - File storage
- Cloud configuration options
 - Endurance tiered IOPS
 - Performance Allocated IOPS
- Object Storage
 - IBM Cloud Infrastructure Cloud Object Storage (COS)
 - IBM Cloud Infrastructure COS Standard Regional (OpenStack)
 - IBM Cloud Infrastructure COS Standard Cross-Region (S3 API)
- Mass storage (bring your own storage)
 - Examples of data types stored in Object Storage
 - Example uses of Object Storage
- Content Delivery Network (CDN)
- A Storage Cloud
 - Public Storage cloud
 - Private storage cloud
 - Local private storage cloud
 - Hybrid storage cloud

Application Design

Microservices

- Microclimates
- Urbancode
- IBM Cloud Functions
- API Connect
- Economy of API
- Enterprise Design Thinking
- Strangler Application pattern
- IBM Cloud Log Analysis
- IBM Blockchain Platform
- Watson Assistant

Designing for IBM Cloud

- IBM Cloud Garage
- IBM Cloud Garage Method
 - Culture
 - Discover
 - Think
 - Develop
 - Reason
 - Operate
 - Learn
- Application Modernization

Watson

- Watson Studio
- Watson Knowledge Catalog

- Watson Assistant
- Watson Discovery
- Watson IoT Platform (This may need more)
- Watson Speech to Text (STT)
- Watson Text to Speech (TTS)
- Watson Language Translator
- Watson Natural Language Classifier
- Watson Natural Language Understanding
- Watson Visual Recognition
- Watson Tone Analyzer
- Watson Personality Insights
- Data Refinery
- Watson Machine Learning
- Deep Learning
- Analytics Engine
- Skytap
- IBM App Connect
- IBM App Connect Enterprise
- IBM Cloud Event Management
- Event Streams for IBM Cloud
- Hybrid integration services

VMware

- VMware Cloud Foundation (VCF)
 - Benefits
- vCenter Server
- VMware Back-up and Disaster Recovery
 - Veeam
 - Zerto
 - Multi-Datacenter

