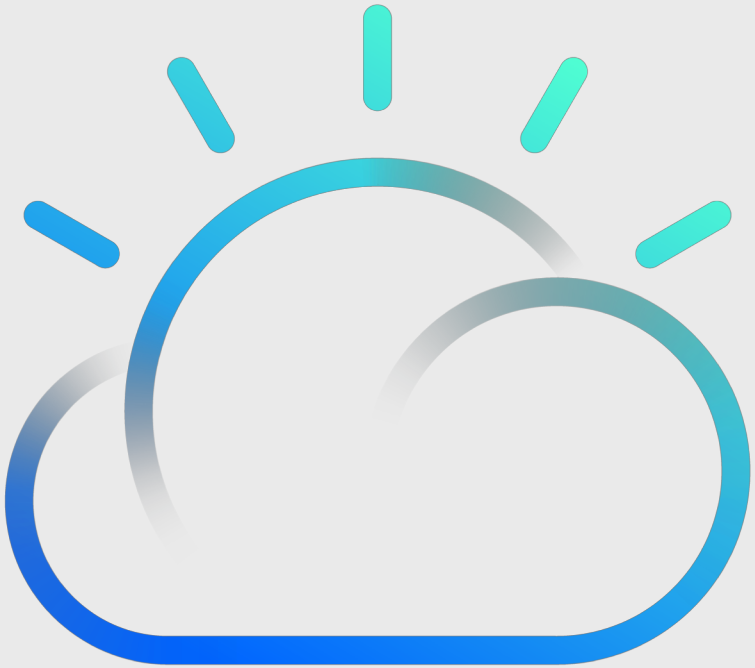
IBM Hybrid Cloud Administration Bootcamp



IBM Cloud

Course overview

A comprehensive bootcamp that teaches technical teams the infrastructure, architecture, administration and configuration of IBM's Hybrid Cloud Solution.

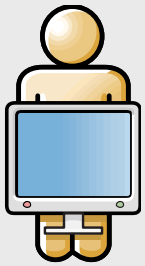
Audience

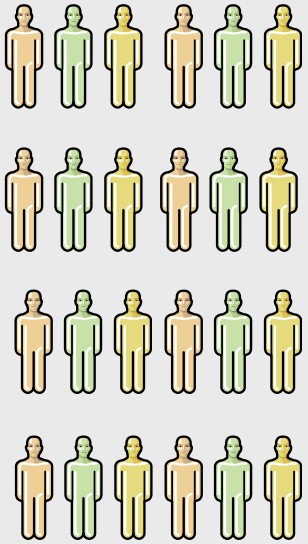
- Solution architects
- Infrastructure architects
- System administrators

Course objectives

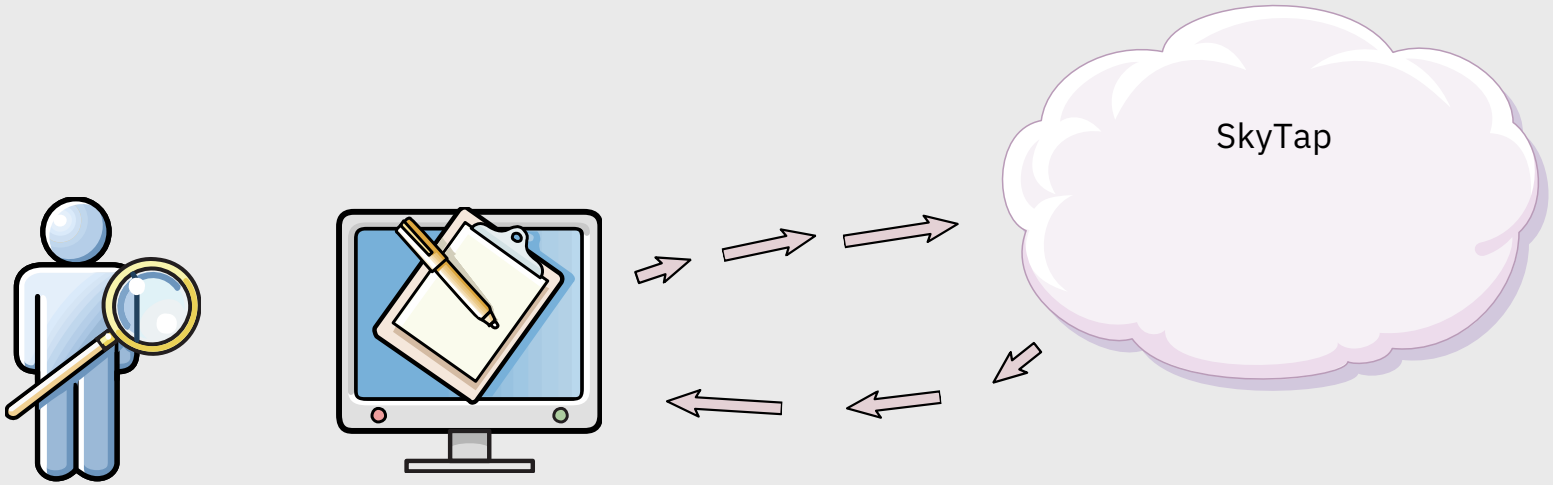
- Discuss the role of Kubernetes, Helm, Istio, and Cloud Foundry in the IBM Cloud Private solution
- Learn how to install, configure, and deploy a Hybrid Cloud Solution on your infrastructure
- Discuss and describe the infrastructure, architecture, features, and service catalog of an Hybrid Cloud solution

Presentations and demonstrations





Lab exercises



Day 1: Basics and installation

- Welcome and kickoff
- Introduction to IBM Cloud Private
- Installation
- Installation
- Containers and Docker
- Build a Docker image and push to the registry
- Installation review
- Console treasure hunt
- Confirm installation by exploring the logs

Presentation Lab exercise Demonstration

Day 2: Foundation technologies, infrastructure and architecture

Install CLI and tools

Kubernetes basics

Kubernetes resiliency

Helm basics

Creating a Helm chart

Deploy a Helm chart - NodeJS

IBM Cloud Private architecture

IBM Cloud Private performance and sizing

IBM Cloud Private storage

Backup and restore

Presentation

Lab exercise

Demonstration

Day 3: “Day 2” operations and troubleshooting

Introduction to ICP networking

Resiliency

Security

ICP LDAP integration

Logging and monitoring

Log monitoring

Advanced log monitoring

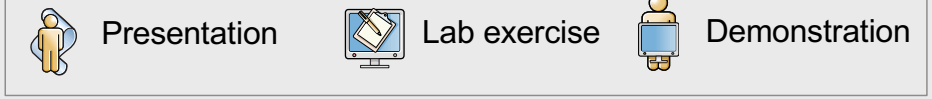
Presentation

Lab exercise

Demonstration

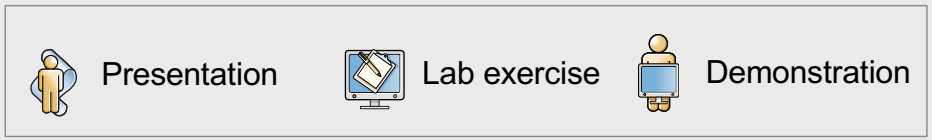
Day 4: DevOps and development

- Continuous integration / continuous deployment (CI/CD)
- Cloud Automation Manager
- Microclimate
- Installing and using microclimate
- Cloud native development – BlueCompute
- API economy
- API Connect
- API Connect installation



Day 5: Application modernization

- IBM Application Modernization
- IBM Transformation Advisor
- Course conclusion



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