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.

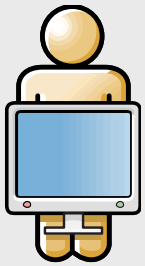
Audience

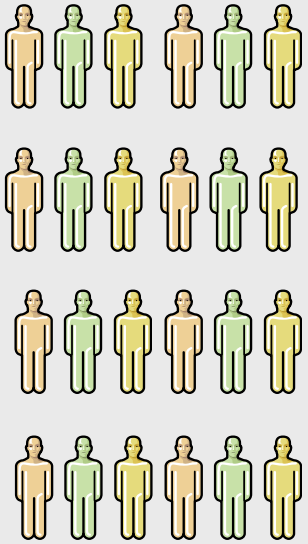
- Solution architects
- Infrastructure architects
- System administrators

Course objectives

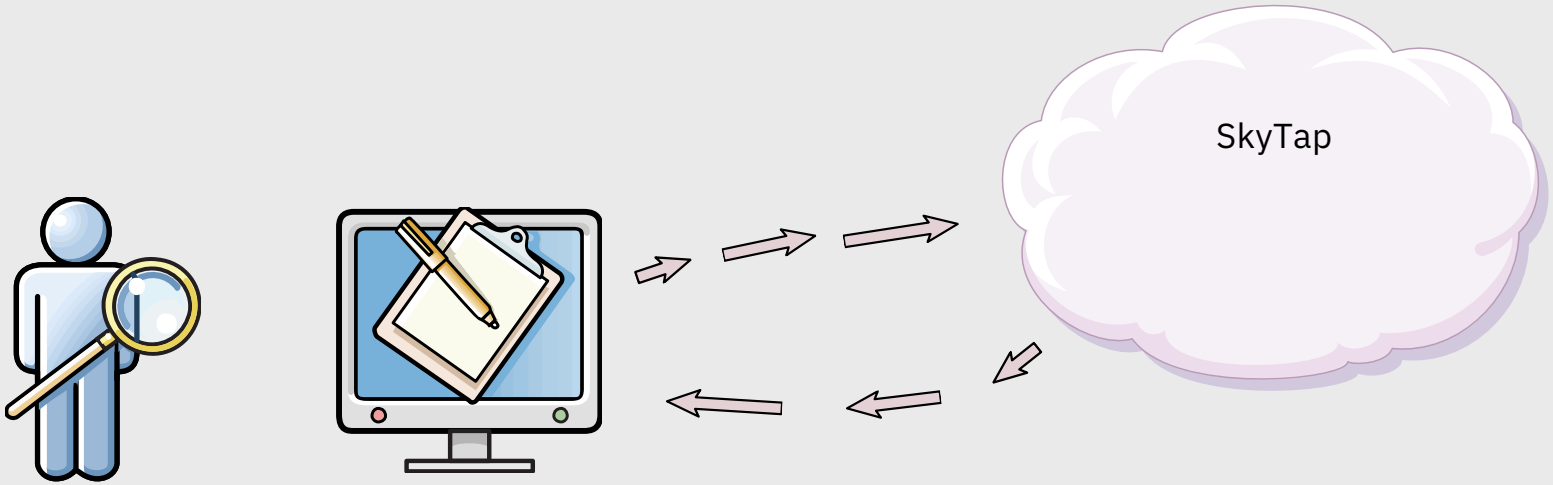
- Discuss the role of Kubernetes, Helm, Istio, and Cloud Foundry in the IBM Cloud Private solution
- Learn how to install, configure, and deploy a Hybrid Cloud Solution on your infrastructure
- Discuss and describe the infrastructure, architecture, features, and service catalog of an Hybrid Cloud solution

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


Introduction to Microservice Mesh (Istio)


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
- IBM Application Modernization
- IBM Transformation Advisor
- Course conclusion