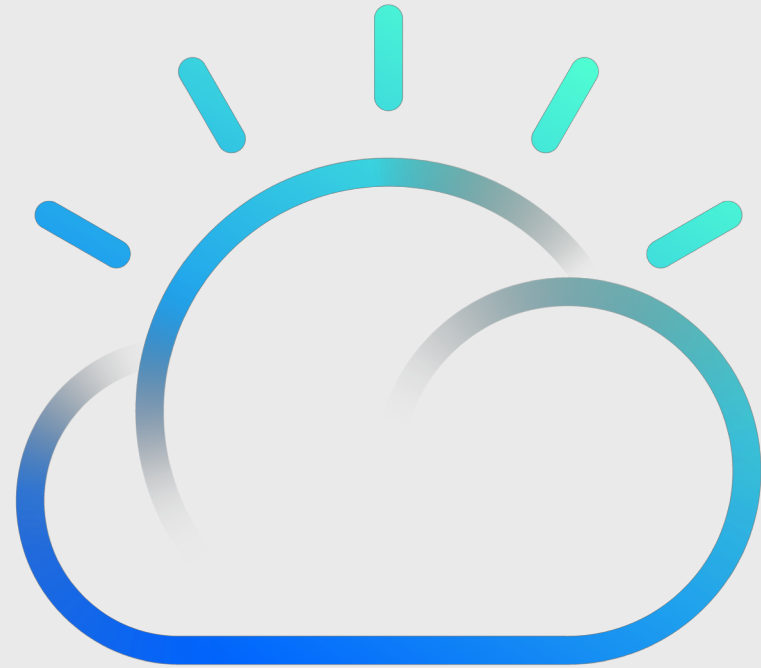




IBM Hybrid Cloud Administration Bootcamp



IBM Cloud

Course overview

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

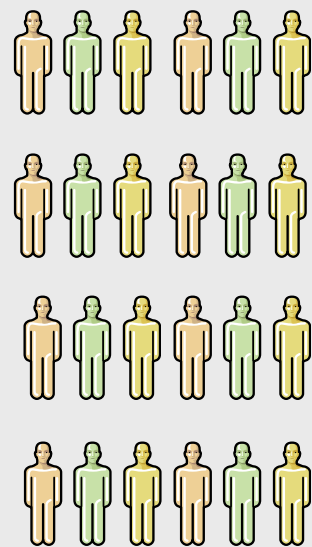
Audience

- Solution architects
- Infrastructure architects
- System administrators

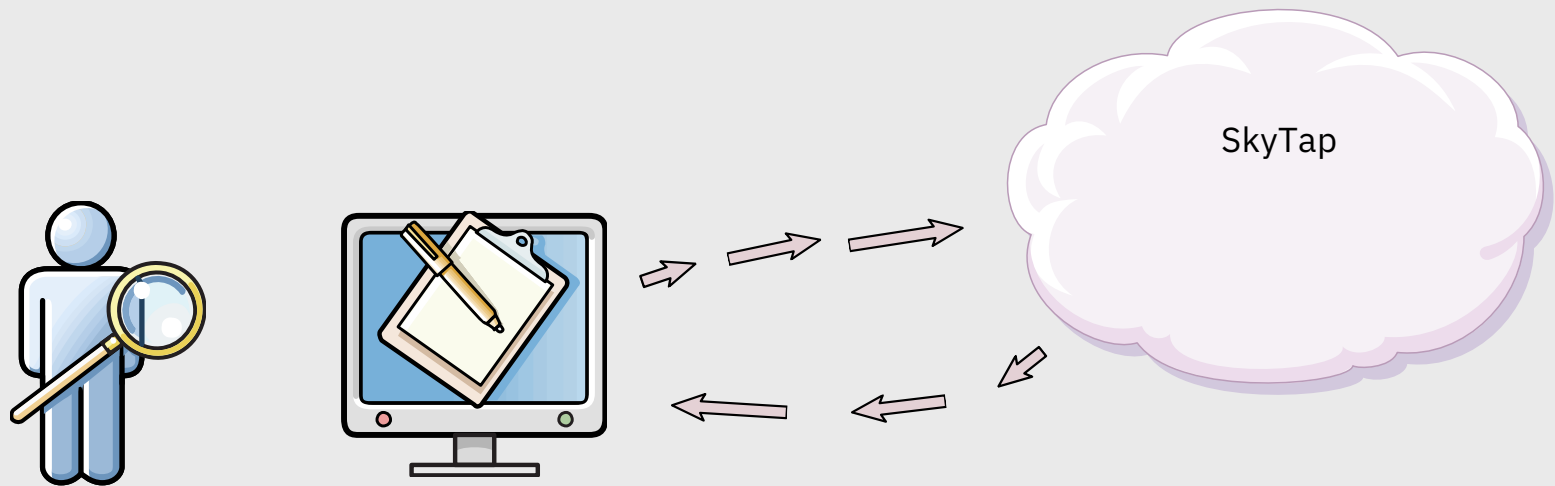
Course objectives

- Discuss the role of Kubernetes, Docker, Helm, Calico, 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
- Understand the additional services and content IBM has used to complete the 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



Presentation



Lab exercise



Demonstration

