



# 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.

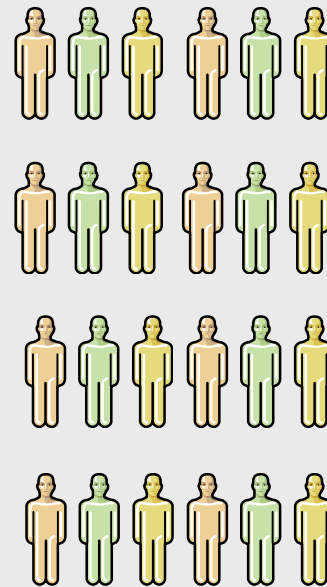
# Audience

- Solution architects
- Infrastructure architects
- System administrators

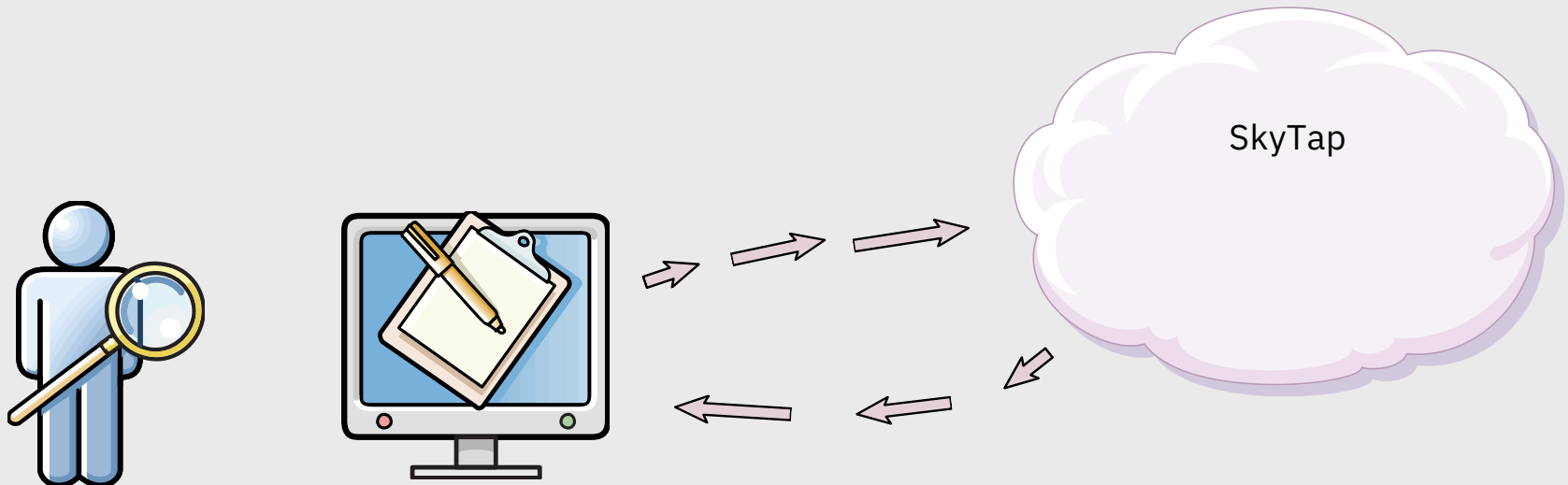
# Course objectives

- 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



Containers and Docker



Build a Docker image and push to the registry



Installation



Console treasure hunt



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

