

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.

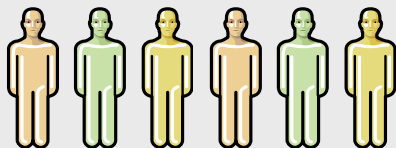
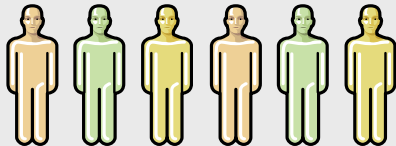
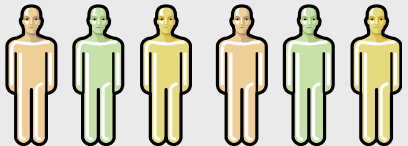
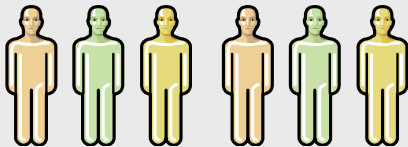
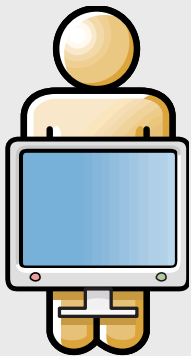
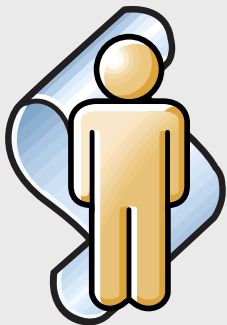
Audience

- Solution architects
- Infrastructure architects
- System administrators

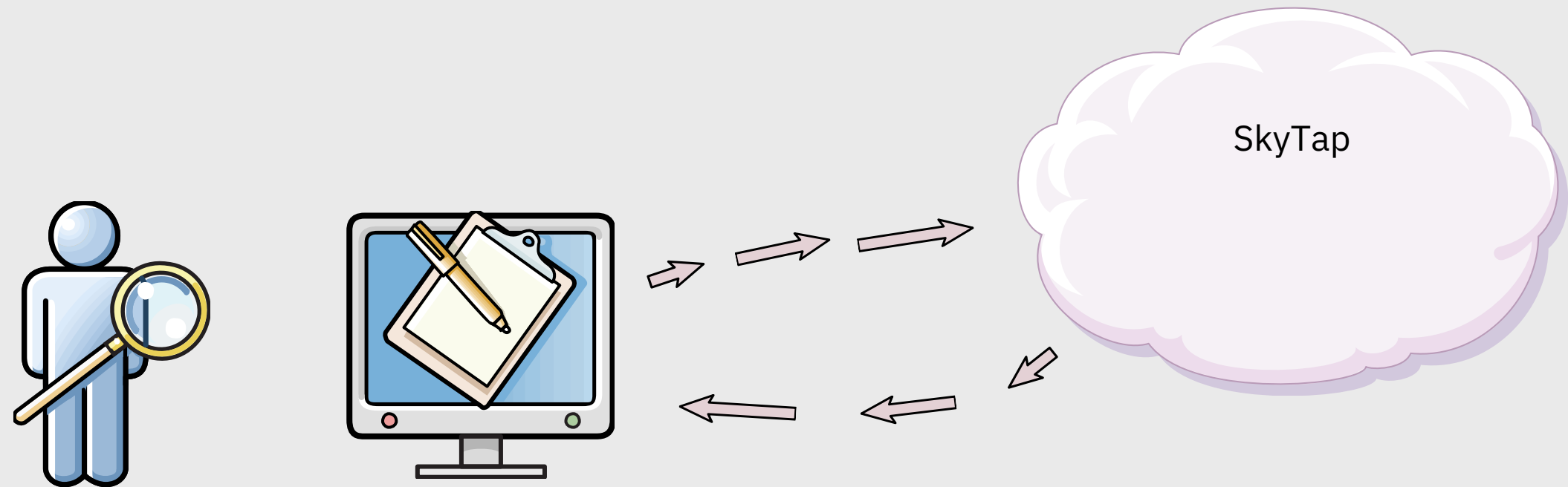
Course objectives

- 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



Adopting cloud technologies



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



Autoscaling test with Kubernetes



Secure Kubernetes with Calico



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



NFS storage provisioner



Backup and restore



Presentation



Lab exercise



Demonstration

Day 3: “Day 2” operations and troubleshooting



Introduction to ICP networking



Secure Kubernetes with Calico



Resiliency



Resiliency scenarios



Security



ICP LDAP integration



Certificate management



Logging and monitoring



Log monitoring



Resource monitoring



Advanced log monitoring



Presentation



Lab exercise



Demonstration

Day 4: DevOps and development



Continuous integration / continuous deployment (CI/CD)



CI/CD pipelines



Cloud Automation Manager



Cloud Automation Manager



Microclimate



Installing and using microclimate



Cloud native development – BlueCompute



IBM reference architecture for cloud native development on Kubernetes



API economy



API Connect



API Connect installation



Presentation



Lab exercise




Demonstration

Day 5: Application modernization

 IBM Application Modernization

 IBM Transformation Advisor

 Course conclusion



Presentation



Lab exercise



Demonstration

