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Bluemix Infrastructure Solutions Design
Information

Length:	3.0 Days
Ref:	CK301G-X
Delivery method:	ClassroomInstructor Led Online
Price:	AUD

Overview

This technical training class includes hands-on workshops. Proof points from actual implementations and workloads are used to help you make architecture choices to design an effective solution on Bluemix Infrastructure's (formerly Softlayer) Infrastructure-as-a-Service (IaaS). Proof points from actual implementations are used to help you make architecture choices to design an effective solution. For each workload, a structured design process will be followed, including: Analyzing business drivers and workload requirements Making architecture decisions and justifying the choices Designing the infrastructure Creating the detailed design The workloads?application hosting with e-commerce and social collaboration?have been selected because of common business application elements and workload characteristics that are pertinent across industries. Each workload infrastructure is designed to give you an extensive overview of SoftLayer?s capabilities, which you can use when designing your own IaaS solution. The infrastructure designs are presented to the class to encourage facilitated discussion, which will help reinforce understanding, approach, and application of architecture principles. You will be guided through an initial workload on e-commerce, given assistance with a second workload on social collaboration, and apply what you have learned to a third workload on big data and cost optimization.

Public

Infrastructure Leaders, IT Operations Manager/Systems Administration, IT Security Management, IT Strategy & Enterprise Architecture, Solution/Software Architecture

Prerequisites

None

Objective

This course is designed to teach you how to:

- Apply SoftLayer capabilities in a structured process to meet workload characteristics
- Weigh architecture design alternatives in order to meet business goals, including scalability,

availability, and cost effectiveness

- Justify the choices made and the benefits to be gained
- Architect a design to meet your workload needs, based on the presented scenarios

Topics

Day 1

Guided Workshop

Guided analysis of e-commerce needs using a client case study

Make the architecture choices: moving from an architecture to a component viewpoint

Identify key infrastructure requirements

Design the infrastructure

Create the detailed design

Applying the process: summarize the process, technologies selected, and lessons learned

Instructors will guide you through the e-commerce infrastructure design and decisions, including compute, storage, network, security, and other choices. You will view the infrastructure design from its component and functional levels to a logical diagram.

Day 2

Assisted Workshop

Assisted analysis of a social collaboration workload using a client case study

For each architecture decision:

Discuss the problem statement

Evaluate the possible alternatives

Justify the decision made

Determine the architectural decisions for:

Compute

Storage

Networking

Scalability

Security

High availability

Disaster recovery

Multi-site needs

Instructors will assist and consult with you on a social collaboration infrastructure design and decisions, including compute, storage, network, security, and other choices. You will present your group's findings to the class, get feedback, and provide feedback to the findings of the other groups.

Day 3

Apply What You Have Learned to a Third Workload

Analyze a big data and cost optimization workload using a client case study

For each architecture decision:

- Discuss the problem statement
- Evaluate possible component alternatives
- Justify the decisions made

Determine the architectural decisions for

- Compute
- Storage
- Networking
- Scalability
- Security
- High availability
- Disaster recovery
- Multi-site needs

Present your group's findings to the class, get feedback, and provide feedback to the findings of the other groups. Your work group will collaborate on a big data and cost optimization workload design, including compute, storage, network, security, and other choices. Your group's findings will be presented to the class, get feedback, and provide feedback to the findings of the other groups.