DevOps Practitioner Certification Training Course Agenda

Lesson 1: DevOps Overview

- What is DevOps?

- Technical Challenges

- Software Tools

- Cloud Computing

- Case study

- Information Security

- Requirements

- Architecture

- User Acceptance Tests

- Quiz

  ### Tools Covered

  - ✓ Cloud IaaS

  - ✓ Debian Linux

  - ✓ SSH

  - ✓ MySQL

Lesson 2: Virtualization and Lightweight Containers

- Virtualization

- Linux Virtualization

- Docker

- Docker Images

- Registries and Repositories

- Docker Machine

- Quiz

    Tools Covered

    - ✓ Docker as a container

    - ✓ Docker data volumes

Lesson 3: Data Storage and Access using Docker as container

- Data as a Resource

- Relational Databases

- Docker Data Volumes

- NoSQL and Big Data

- Quiz

    Tools Covered

    - ✓ MySQL

    - ✓ HDFS

    - ✓ Hadoop

    - ✓ Pig

    - ✓ Hive

Lesson 4: Test Driven Development and Code Quality

- TDD Origins

- IDEs

- TDD Approach

- Behavior Driven Development

- Code Quality Principles

- Code Analysis Tools

- Quiz

Tools Covered

- ✓ Eclipse

- ✓ Intellij

- ✓ Visual Studio

- ✓ Xcode

- ✓ xUnit

- ✓ SQALE

- ✓ SonarQube

Lesson 5: OO Design and Design Patterns

- OO Design Principles

- UML

- Design Patterns

- Enterprise Integration Patterns

- Quiz

Tools Covered

- ✓ Java
- ✓ Maven
- ✓ Eclipse
- ✓ Apache ActiveMQ
- ✓ Apache Camel

Lesson 6: Software Development Tools

- Source Control Systems
- Subversion
- Build tools and dependency resolution
- Continuous Integration Tools
- Quiz

Tools Covered

- ✓ SCCS and CVS
- ✓ Subversion
- ✓ Java
- ✓ Git
- ✓ Make
- ✓ JaCoCo
- ✓ Ant
- ✓ Maven

- ✓ jUnit for Unit test

- ✓ SonarQube/Sqale/Structure 101 for Code Quality

Lesson 7: Integration and Support

- Integration Testing and Mocking

- Docker Networking

- Integration Tools

- Configuration Management

- Docker Compose

- Infrastructure as Code

- Quiz

    ### Tools Covered

    - ✓ Docker as container

    - ✓ Kubernetes for CD

    - ✓ Mockito for Mocking

    - ✓ Apache Camel

    - ✓ Puppet

Lesson 8: Monitoring and Performance

- Scheduling

- Monitoring

- Performance

- Case Study

- Quiz

Tools Covered

- ✓ Docker as container

- ✓ Apache Camel for Integration

- ✓ AutoSys/Cron for Scheduling

- ✓ Geneos/ Nagios for Monitoring

- ✓ Git for Version control

- ✓ JaCoCo for Test coverage

- ✓ Jetty for Webserver

- ✓ Jenkins for CI

- ✓ Linux/Alpine for OS

- ✓ Logback/ SLF4J for Logging

- ✓ Maven for build

- ✓ MySQL for Database

- ✓ SSH for Secure transfer

For information on the course, visit: https://www.simplilearn.com/cloud-computing/devops-practitioner-certification-training

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