

BCS Foundation Certificate in OpenStack Software Course

Course Duration : 16 Hours

Course code : BCS-OS-912

1. Course Overview

The BCS Foundation Certificate in OpenStack Software Course is designed to provide a strong foundation in cloud computing using OpenStack, one of the most widely used open-source cloud platforms. This course introduces learners to the core components of OpenStack and how it is used to build and manage cloud infrastructure.

2. What you'll learn?

- Fundamentals of OpenStack and cloud computing
- Core OpenStack components (Nova, Neutron, Swift, etc.)
- Virtualization and cloud infrastructure concepts
- Deployment and management of OpenStack environments
- Networking and storage in OpenStack
- Certification exam preparation

3. Target Audience

- IT professionals and system administrators
- Cloud engineers and aspiring cloud professionals
- Network engineers and developers
- Students and fresh graduates
- Professionals interested in cloud technologies

4. Pre-Requisites

- Basic understanding of networking and IT infrastructure
- Familiarity with Linux (recommended)
- Interest in cloud computing
- No prior OpenStack experience required

5. Course Content (Modules)

Module 1: Introduction to Cloud & OpenStack

- Cloud computing basics
- Overview of OpenStack
- Key concepts and architecture

Module 2: OpenStack Core Services

- Compute (Nova)
- Networking (Neutron)
- Storage (Swift, Cinder)

Module 3: Virtualization & Deployment

- Virtual machines and hypervisors
- OpenStack deployment basics
- Configuration and setup

Module 4: Networking & Storage Management

- Managing networks in OpenStack
- Storage solutions and optimization
- Security considerations

Module 5: Case Studies & Certification Preparation

- Real-world cloud scenarios
- Best practices
- BCS Foundation exam preparation