

Cloud Practitioner and Cloud Architecture

Industry Partner: AWS

The Cloud Practitioner and Cloud Architecture course educates participants about cloud deployment and service models, cloud infrastructure, and the key considerations in migrating to cloud computing. For all definitions of cloud computing, the course has resorted to the U.S. National Institute of Standards and Technology as a guide. The course covers technologies required to build classic (traditional), virtualized, and cloud data center environments. These technologies include compute, storage, networking, desktop and application virtualization. Additional areas of focus include backup/recovery, business continuity, security, and management. Participants will learn about the key considerations and steps involved in transitioning from the current state of their data center to a cloud computing environment. Upon completing this course, participants will have the knowledge to make informed decisions about migrating to cloud infrastructure and choosing the best deployment model for their organization.

Pre-requisite:

- Basic understanding of computer architecture, operating system, networking and database
- Experience in Compute system, storage and network infrastructure will be an added advantage

Course Objective:

Upon successful completion of the course, participants should be able to:

- Explain the phases of transition from classic data center to virtual data center and then to the Cloud
- Describe virtualization technology at compute, storage, network, desktop, and application layers of IT infrastructure
- Describe business continuity solutions in a VDC environment
- Explain the key characteristics, services, and deployment models of Cloud
- Describe the Cloud infrastructure components and service management processes
- Describe the Cloud security concerns and solutions
- List the key considerations for migration to the Cloud

Course Outline:

The contents of this course are designed to support the course objectives. The following focus areas are included in this course:

- Basics of Computer and its Components
- Traditional Infrastructure Architecture
- Virtualization Basics

- Cloud Fundamentals
- Cloud Service and Deployment models
- AWS Compute Services
- Storage Services
- Network Services
- Management Services
- Cloud Economic and Architecture Design

Hardware & Software Requirements

- 8 GB RAM, i3/i5 Processor, 200GB HDD, High Speed Internet connectivity
- Operating System: Windows 7 or later
- VMware Workstation 12 or later