

CCP Module 4: Fundamental Cloud Architecture

This course provides a highly technical drill-down into the inner workings and mechanics of foundational cloud computing platforms. Private and public cloud environments are dissected into concrete, componentized building blocks (referred to as “patterns”) that individually represent platform feature-sets, functions and/or artifacts, and are collectively applied to establish distinct technology architecture layers.

Building upon these foundations, Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS) environments are further explored as compound patterns, comprised of unique and shared building blocks.

The course is structured as a guided tour through these architectural layers, describing primary components, highlighting shared components and explaining how building blocks can be assembled and implemented via cloud computing mechanisms and practices.

The following primary topics are covered:

- Understanding the Technology Architecture of Private Clouds, Public Clouds, and IaaS, PaaS and SaaS Environments
- 12 New Cloud Computing Technology Mechanisms, including Hypervisors, Resource Clusters, Load Balancers, SLA Monitors and more
- 19 Architectural Models and Patterns, including Dynamic Scalability, Resource Pooling, Rapid Provisioning, Usage Monitoring and more

Other technology architecture topics pertaining to cloud platforms, cloud-based solutions and services are also explored.

Duration: 1 Day

For more information, visit www.cloudschool.com.

Text Books

This CCP course module covers a range of in-depth topics that are described in the course booklet(s) and further elaborated by detailed technical coverage and case study examples in the accompanying *Cloud Computing: Concepts, Technology & Architecture*, and *Cloud Computing Design Patterns* text books.



Self-Study Kit

The materials for this course module can be purchased separately as part of the Module 4 Self-Study Kit, which includes additional materials and study aids. These materials are designed to prepare you for Exam C90.04 and are also suitable for general remote, self-paced study purposes.

For ordering information, visit www.cloudselfstudy.com.

