CCP Module 5: Advanced Cloud Architecture

This course builds upon CCP Module 4 to provide a deep dive into elastic, resilient and multitenant technology architectures, as well as specialized solution architectures, such as cloud bursting and cloud balancing.

Through the study of architectural mechanisms, industry technologies and design patterns, both core and extended components are described that combine to realize elasticity, resiliency and multitenancy as primary characteristics of cloud platforms. By leveraging these native and enhanced scalability and failover-related feature-sets, specialized solution architectures are described to enable bursting between clouds and on-premise and cloud environments, as well as the balancing of runtime loads across clouds for performance and failover purposes.

As with Module 4, the course organizes content so that architectural layers are explored sequentially and, where appropriate, in relation to each other. Newly introduced primary components are described and shared components across architectural layers are highlighted.

Twenty new architectural models are covered, including:

- Elastic Resource Capacity, Elastic Network Capacity and Elastic Disk Provisioning
- Hypervisor Clustering, Redundant Storage, Zero Downtime and Dynamic Failure Detection and Recovery
- Service Load Balancing, Load Balanced Virtual Server Instances and Load Balanced Virtual Switches
- Dynamic Data Normalization, Synchronized Operating State and Persistent Virtual Network Configurations

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 BDSCP 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 5 Self-Study Kit, which includes additional materials and study aids. These materials are designed to prepare you for Exam C90.05 and are also suitable for general remote, self-paced study purposes.

For ordering information, visit www.cloudselfstudy.com.

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