

# NCTA Cloud Operations

## Course Specifications

### Course Number:

093018

### Course Length:

5 days

## Course Description

### Target Student:

This course is designed for system administrators or cloud technologists who wish to further develop their skills for evaluating, deploying, and administering cloud services. This includes evaluating and selecting Platform as a Service (PaaS) solutions and deploying applications to the cloud, as well as maintaining, securing, and optimizing cloud solutions to achieve the best Total Cost of Ownership (TCO) and Return on Investment (ROI).

### Prerequisites:

To ensure your success in this course, you should have experience with basic network and server administration, as well as a strong understanding of cloud technologies. In addition, you should be familiar with evaluating, selecting, and implementing Software as a Service (SaaS) solutions. You can obtain this level of skills and knowledge by taking the following Logical Operations courses:

NCTA Cloud Technologies

## Course Content

### Lesson 1: Overview of Cloud Operations

**Topic A:** Overview of Cloud Computing Technologies and Roles

**Topic B:** IT Administration Requirements for Cloud Services

**Topic C:** Business Requirements for Cloud Service Administration

## **Lesson 2: Planning Cloud Service Implementation**

**Topic A:** Determine Hardware, Software, and Network Requirements

**Topic B:** Assess Risks of a Cloud Deployment

**Topic C:** Coordinate with End-Users and Business Stakeholders

**Topic D:** Plan Automation and Configuration Management

**Topic E:** Determine Cloud Service Support Resources

## **Lesson 3: Deploying a Cloud Application with Digital Ocean**

**Topic A:** Determine Cloud Application Implementation Requirements

**Topic B:** Deploying a Droplet on Digital Ocean

## **Lesson 4: Deploying a Cloud Application with Heroku**

**Topic A:** Identify Cloud Application Features of Heroku

**Topic B:** Deploy a Heroku App

**Topic C:** Scale and Update Applications on Heroku

**Topic D:** Secure Heroku Applications with Git Bash

## **Lesson 5: Deploying Websites with Microsoft Azure**

**Topic A:** Overview of Microsoft Azure

**Topic B:** Deploy Websites in Microsoft Azure

**Topic C:** Manage Data and Storage in Microsoft Azure

## **Lesson 6: Implementing Azure Cloud Services and Virtual Machines**

**Topic A:** Implement Azure Cloud Services

**Topic B:** Implement Azure Virtual Machines

**Topic C:** Manage Microsoft Azure Cloud Services

## **Lesson 7: Managing Azure Applications with Visual Studio**

**Topic A:** Publish Applications to Azure with Visual Studio

**Topic B:** Migrate .NET Applications to Azure with Visual Studio

## **Lesson 8: Deploying Applications to Opscode Chef**

**Topic A:** Overview of Opscode Chef

**Topic B:** Install the Chef Client

**Topic C:** Implement Chef Cookbooks

**Topic D:** Manage Azure Services with Chef

## **Lesson 9: Managing Server State with Puppet**

**Topic A:** Determine How Puppet can Streamline Cloud Management

**Topic B:** Get Started with Puppet

## **Lesson 10: Implementing Rackspace Cloud Servers**

**Topic A:** Overview of OpenStack

**Topic B:** Overview of Rackspace Cloud Services

**Topic C:** Deploy a Rackspace Cloud Server

**Topic D:** Manage Rackspace Cloud Servers with Chef

**Topic E:** Manage Quality of Service (QoS)

## **Lesson 11: Importing and Exporting Data from Cloud Services**

**Topic A:** Determine Requirements for Cloud Data Import and Export

**Topic B:** Import Data to and Export Data from a Cloud Network

## **Lesson 12: Managing Security and Compliance in Cloud Solutions**

**Topic A:** Secure Cloud Solutions

**Topic B:** Manage Compliance for Cloud Solutions

## **Lesson 13: Planning and Executing a Phased Cloud Migration**

**Topic A:** Plan a Phased Migration

**Topic B:** Execute Phase 1: Cloud Assessment

**Topic C:** Execute Phase 2: Deploy a Proof of Concept on Amazon Web Services

**Topic D:** Execute Phase 3: Data Migration

**Topic E:** Execute Phase 4: Application Migration

**Topic F:** Execute Phase 5: Implement Cloud Features

**Topic G:** Execute Phase 6: Optimize Cloud Implementations

**Further Information:**

For More information, or to book your course, please Call/Email us on : - +254 713 027 191

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