

Cisco® Introducing Python and Web Services Protocols for Cloud Engineers v1.0 (IPWSP-CE)

Course Overview

This is a 4-day class

This course focuses on the interoperability of Python programming with Amazon Web Services (AWS) to prepare Next Generation Cloud Engineers for Python Programmability. This class is designed for Cloud/Infrastructure Engineers and Administrators looking to add necessary programming skills in preparation for interacting with AWS.



Who Should Attend

The primary audience for this course is as follows:

- Cloud Engineers
- System Administrators
- Network Engineers
- Software Developers
- Students interested in learning about programming

Course Objectives

Upon completing this course, the student will be able to meet the following objectives:

- Understand and describe basic and advanced Python terminologies
- Identify Python script errors and correct
- Query and reconfigure networking devices using Python scripts
- Introduction to RESTful API utilizing JSON and XML
- Understand and execute key python programming constructs to execute AWS projects
- Utilize AWS APIs and SDKs to automate configurations of various AWS services
- Iterate data that contains JSON and XML for the use of configuring and managing AWS Infrastructure

Course Outline

1 MODULE 1

Traditional Infrastructure Topology vs. AWS
AWS Infrastructure Overview
Creating the VPC via Management Console

2 MODULE 2

Introduction to Web Services Protocols
XML and JSON
Data Models
Modifying the Schema
Data Extraction and Manipulation



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3 MODULE 3

Basic Constructs
Advanced Constructs
Scaling Python