

Boto3 Core Concepts to Automate AWS Tasks Using Python

VRTechnologies



Introduction to Boto3 Of Python for AWS Automation

- What is Boto3?
 - Boto3 is a Python module that allows us to interact with AWS services using Python code
 - Boto3 helps us to automate AWS cloud tasks like launching servers, managing users, working with storage and more
 - Simply, Boto3 allows us to write Python scripts to automate AWS tasks, instead of wasting time doing the same things again and again on the AWS web interface or AWS Web Console
- Note: Why Delete Unused EIPs?
 - To Avoid unnecessary 💰 charges

Why Automation Is Required for AWS Tasks?

- Imagine you're given a task:
 - Every day, check for any unused Elastic IPs in your AWS account and delete them if found
- ☒ Now, let's think practically...
- We have two options:
 - Option-1: Do it Manually Every Day from AWS Console
 - Problems:
 - Time-consuming and boring
 - Human error-prone (you might forget or make mistakes)
 - Not scalable if you manage multiple accounts or regions
 - Doesn't work in 24x7 or production environments
 - Option-2: Automate the Task using a script and schedule it to run daily – cron or AWS Lambda
 - ✓ Benefits of Automation:
 - Saves time and manual effort
 - Reduces human error
 - Ensures consistency
 - Works 24/7 without supervision
 - Easily scalable for multiple accounts or regions
- AWS Automation is an essential part of modern Cloud and DevOps practices

Course Objective

The goal of this course is to teach you how to use Boto3 core concepts with Python to automate real-world AWS tasks

Prerequisites

- An AWS Cloud Account and basic understanding of AWS services
- Windows or Linux System or EC2 Instance with Python3 Installed to Practice
- Basic knowledge of command-line usage on Windows, Linux or macOS
- Familiarity with writing and running Python scripts
- Knowledge of how to install Python packages/modules using pip or pip3
- Experience using Editors :
 - A GUI-based editor like Visual Studio Code (VS Code)
 - A terminal-based editor like vi or vim

★✨ All the Best on Your Boto3 Core Concepts To Automate AWS Tasks! 🚀🔧
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