

AWS Automation with boto3 Course Syllabus

Chapter: 1 Introduction to AWS CLI

1. What is awscli ?
2. How to install and configure awscli on Local host(windows/Unix OS ?
3. How to use awscli commands for AWS Core Services ?

Chapter: 2 Getting started with boto3

1. Introduction to boto3 ?
2. Installing boto3 on different OS's
3. Configuring boto3 for different IAM users of AWS
4. Simple Python Scripts to work with different AWS Core Services

Chapter: 3 Creation of boto3 objects for AWS Services

- What is boto3 object of AWS ?
- Types of boto3 objects for AWS:
 - Resource object
 - Client object
 - Meta Object

Chapter: 4 Sessions for boto3

1. What is session ?
2. Types of sessions:
 - Default Session
 - Custom Session
3. How to create session for non-root IAM users ?

Chapter: 5 Getting started with Filters for AWS Services

1. What is a boto3 filter for AWS Services ?
2. How to create a filter for AWS Services ?
3. How to use filters for AWS Services with real time examples ?

Chapter: 6 Getting started with Collections, Tags, Waiters and Paginators

1. What is a collection ?
2. How to use boto3 collection for AWS Services ?
3. What is a tag ?
4. How to create tags for AWS Services using boto3
5. What is a waiter ?
6. How to use different waiters for AWS Services ?
7. What is Paginator ?
8. How to use paginators for AWS Services with boto3

Chapter: 7 Real time practice

1. List Instances
2. Create an Instance
3. Getting an AMI ID
4. Terminate an Instance
5. Scripting S3
6. List Buckets and Their Contents
7. Create a Bucket
8. Put a File into a Bucket
9. Delete Bucket Contents
10. Delete a Bucket
11. Scripting RDS
12. List DB Instances
13. Create a DB Instance
14. Delete a DB Instance

Chapter: 8 Real Time project Implementation

Getting Started with AWS Lambda

1. Introduction Lambda
2. Lambda Features
3. Writing code using Lambda
4. Running code with Lambda
5. Triggaring methods for Lambda
 - API Gateways
 - S3 events
 - Cloud watch events etc...