

## Python for Serverless Applications and Automation on AWS

# Course Roadmap

In this course, you will start with a robust introduction to Python and then learn how to host a serverless solution with Amazon API Gateway, AWS Lambda and Amazon DynamoDB. You'll then learn about writing and running automation scripts with Python and AWS Systems Manager. This course is designed to give you a conceptual understanding of Python and how to use Python for automation.

MODULE  
**01**

### Beginning with Python

Developing in a team  
Roles in software  
Python introduction

Variables  
Conditionals  
Loops

Functions  
Lists  
Dictionaries

MODULE  
**02**

### Serverless Architectures

Microservices  
AWS Lambda  
APIs  
Amazon API Gateway

AWS Serverless Application Model (AWS SAM)  
AWS SDKs  
AWS Identity and Access Management (IAM) roles

MODULE  
**03**

### AWS for Databases

Amazon Relational Database Service (Amazon RDS)  
Database integration

AWS Secrets Manager  
Amazon DynamoDB

MODULE  
**04**

### Python and Automation

Automations in Python  
AWS Systems Manager  
Writing automations

Python automations for Support and Operations

