

Automating ONTAP REST APIs with Python (NA-RSTPY)

Course Description

Discover how to automate administration of a NetApp® ONTAP® based storage system by using modern ONTAP REST APIs and Python. Explore how to use the Python client library (PCL) in your Python program to automate storage administration tasks. Also, learn how to configure your system for SMB, NFS, Simple Storage Service (S3), and SAN protocols by writing Python programs.

Course Duration

2 days

Prerequisites

- Python programming experience (required)
- ONTAP Cluster Administration

Objectives

This course focuses on enabling you to do the following:

- Analyze ONTAP REST APIs and Python frameworks
- Illustrate how to use PCL calls from within your Python program to automate storage administration tasks
- Configure SMB, NFS, S3, and SAN protocols programmatically by using Python programs
- Identify the performance metrics of an ONTAP based system

Course Outlines

Module 1: ONTAP REST API

- What is REST API?
- ONTAP REST API documentation

Module 2: REST API use cases: Python programs

- Aggregate, SVM, and volume
- Volume management
- Snapshot copy

Module 3: SMB configuration

- SMB Configuration via Python

Module 4: NFS configuration

- NFS Configuration via Python

Module 5: S3 configuration

- S3 Configuration via Python

Module 6: SAN configuration

- SAN REST API documentation
- iSCSI configuration
- FCP and NVME-oF configuration

Module 7: Performance monitoring

- ONTAP performance
- Performance metrics
- Collecting ONTAP performance metrics
- BlueXP and ONTAP System Manager

Who Should Attend

- Sales, customer success manager, solutions engineer (SE), architect, support engineer, implementation engineer, and professional services