Automating ONTAP REST APIs with Python

Category: Infrastructure & IT Operations | **Vendor:** NetApp

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

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.

About This Course

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.

Who Should Attend

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

Prerequisites & Entry Requirements

General Prerequisites:

- You must have good Python programming experience
- We also highly recommend that you have attended the ONTAP Cluster AdministrationONTAP Cluster Administration (ONTAP9ADM)

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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

Detailed Course Outline

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

Module 8:Appendix: Basic Python programming

- Data structures
- Control flow
- Installing Python on your Linux system

Skills You Will Learn:

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

Frequently Asked Questions

Q: What delivery options are available for Automating ONTAP REST APIs with Python?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day Automating ONTAP REST APIs with Python course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Automating ONTAP REST APIs with Python training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Automating ONTAP REST APIs with Python?

Yes, we provide corporate training, dedicated training, and closed classes for Automating ONTAP REST APIs with Python. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Automating ONTAP REST APIs with Python, NetApp Platform OS, RSTPY

Q: Why choose Nexus Human for Automating ONTAP REST APIs with Python?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Automating ONTAP REST APIs with Python training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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