

Learning Services Academy

Automating ONTAP REST APIs with Ansible

Delivery: Instructor-led-training (ILT)

Duration: 2 days

Training Units: 24

Course Description

Learn how to automate administration of NetApp ONTAP based system by using modern REST APIs and Ansible. Learn how to use Ansible framework to automate and deploy storage administration tasks by invoking NetApp ONTAP modules from within Ansible playbooks. Additionally, you learn how to configure your system for SMB, NFS, S3 and SAN protocols.

Role

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

Prerequisites

ONTAP Cluster Administration

Objectives

This course focuses on enabling you to do the following:

- Analyze ONTAP REST APIs and Ansible frameworks.
- Illustrate how to invoke NetApp ONTAP modules from within Ansible playbooks to automate storage administration tasks.
- Configure SMB, NFS, S3, and SAN protocols programmatically by using Ansible playbooks.
- Identify the performance metrics of ONTAP system.

Course Content

This course includes the following modules, lessons, and exercises:

Module	Lessons	Exercises
Module 0: Welcome	Architecture of lab environment	 Connect to ONTAP cluster Copy source files from Github repository Build Integrated Development Environment
Module 1: Overview of ONTAP REST API	What is REST API?ONTAP REST API Documentation	 No exercises in this module



Module	Lessons	Exercises
Module 2: Ansible Basics	 Introduction to Ansible Basics of Ansible Ansible Playbooks Ansible Modules Coding Demonstrations of Playbooks 	Using AnsibleConfigure Cluster1
Module 3: SMB Configuration	SMB Configuration via Ansible	Create Ansible Playbooks to configure SMB
Module 4: NFS Configuration	NFS Configuration via Ansible	Create Ansible Playbooks to configure NFS
Module 5: S3 Configuration	 S3 object storage configuration via Ansible 	 Provisioning and Configuring S3 storage
Module 6: SAN Configuration	 SAN REST API Documentation iSCSI Configuration FCP and NVME-oFConfiguration Playbooks and Ansible Modules 	 Explore and identify the REST API for SAN Create an Ansible playbook to provision storage for ONTAP
Module 7: Performance Monitoring	 ONTAP performance Performance Metrics Collecting ONTAP Performance Metrics ONTAP System Manager 	 Exploring Performance Metrics API Use Performance Metrics to provision Resources

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