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RSTAN: Automating ONTAP REST APIs with Ansible

Course Code: RSTAN
Duration: 2 days
Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

Discover how to automate administration of a NetApp® ONTAP® based storage system by using ONTAP REST APIs and Ansible. Explore how to use the Ansible framework to automate and deploy storage administration tasks by calling ONTAP modules from Ansible playbooks. Also, learn how to configure your system for SMB, NFS, Simple Storage Service (S3), and SAN protocols.

SKILLS COVERED

This course focuses on enabling you to do the following:

- Analyze ONTAP REST APIs and Ansible frameworks.
- Explore how to call 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 the ONTAP based storage system.

WHO SHOULD ATTEND?

- Administrator
- Engineer
- Architect
- Operator
- Sales
- Customer success manager
- Solutions engineer (SE)
- Architect
- Support engineer
- Implementation engineer
- Professional services

PREREQUISITES

- ONTAP Cluster Administration

MODULES

Module 0: Welcome

- Architecture of the lab environment

Module 1: ONTAP REST API

- What is REST API?
- ONTAP REST API documentation

Module 2: Automation using Ansible

- Introduction to Ansible
- Basics of Ansible
- Install Ansible
- YAML
- Ansible playbooks
- Ansible modules
- Coding demonstrations of simple playbooks

Module 3: SMB configuration

- SMB configuration via Ansible

Module 4: NFS configuration

- NFS configuration via Ansible

Module 5: S3 configuration

- S3 object storage configuration via Ansible

Module 6: SAN configuration

- SAN REST API documentation
- iSCSI configuration
- FCP and NVME-oF configuration
- Playbooks and Ansible modules

Module 7: Performance monitoring

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

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