

NA-UATWK: Using Astra Trident with Kubernetes

Course Code: NA-UATWK

Duration: 2 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

This *Using Astra Trident with Kubernetes* course, learn how to install, configure, and use NetApp® Astra Trident to manage Kubernetes with NetApp ONTAP® based storage systems. Deploy Astra Trident by using the Trident operator and use the tridentctl and kubectl methods to manage configurations. Configure NFS-backed, iSCSI-backed, and NVMe over TCP (NVMe/TCP) backed storage by using Astra Trident. Also, manage Snapshot copies, expand volumes, and import non-Astra Trident volumes to become managed volumes

SKILLS COVERED

This course focuses on enabling you to do the following:

- Review how containers use persistent storage
- Describe the storage concepts that are available in Kubernetes
- Explain how Astra Trident makes managing persistent storage easier
- Install Astra Trident in a Kubernetes cluster
- Configure back ends, storage classes, and persistent volumes to use storage that is managed by Astra Trident
- Use Astra Trident to manage frequently seen use scenarios
- Monitor Astra Trident by using Prometheus and Grafana

WHO SHOULD ATTEND?

- Systems administrator
- Architect
- Operator
- Integration engineer

PREREQUISITES

- Basic Linux administration skills

MODULES

Module 1: Kubernetes storage overview

- Persistent storage in Kubernetes
- Container storage
- Kubernetes storage concepts
- Dynamic provisioning with Astra Trident

Module 2: Installation

- Astra Trident details
- Astra Trident installation

Module 3: Configuration

- Configure back ends
- Manage storage classes
- Create persistent volumes by using Astra Trident

Module 4: Usage scenarios

- Manage Snapshot copies with Astra Trident
- Expand volumes by using Astra Trident
- Import volumes by using Astra Trident
- Manage multiple-zone storage by using Astra Trident

Module 5: Next steps

- Next Steps

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