



# Using Astra Trident with Kubernetes (NA-UATWK)

## **Course Description**

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.

## **Course Duration**

2 days.

## **Prerequisites**

• Basic Linux administration skills

# **Objectives**

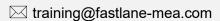
This course focuses on enabling you to do the following:

- 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

#### **Course Outlines**

- 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







- 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

## Who Should Attend

Systems administrator, architect, operator, and integration engineer

