



Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

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Using Astra Trident with Kubernetes

CODE:	LENGTH:	PRICE:
NEP_UATWK	16 Hours (2 days)	€2,040.00

Description

In this course, you learn how to install, configure, and use NetApp® Astra Trident™ to manage Kubernetes with NetApp ONTAP® storage. You deploy Astra Trident by using the Trident operator and use the tridentctl and kubectl methods of managing configurations. You configure NFS-backed and iSCSI-backed storage by using Astra Trident and manage Snapshot™ copies, expand volumes, and import non-Astra Trident volumes to become managed volumes. You deploy Astra Trident in a multiple container storage interface (CSI) environment. Written for Kubernetes v1.23.0 and Astra Trident 22.01, this course includes an appendix on how to monitor Astra Trident.

Objectives

- 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 Astra Trident-managed storage
- Use Astra Trident to manage common use scenarios
- Monitor Astra Trident by using Prometheus and Grafana

Audience

- Systems Administrator
- Systems Architect
- Systems Operator
- Integration Engineer

Prerequisites

Kubernetes Administration knowledge/experience is required in addition to the 3 day course below.. [**OT-CLU-A - Cluster Administration**](#)

Programme

Module 1: Kubernetes storage overview

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

Module 2: Astra Trident Installation

Astra Trident details
Astra Trident installation

Module 3: Astra Trident configuration

Configure back ends
Manage storage classes
Persistent volumes using Astra Trident

Module 4: Managing Storage with Astra Trident

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

Appendix 1: Kubernetes-related certifications

Cloud Native Computing Foundation exams
NetApp Kubernetes-related exams

Appendix 2: An introduction to operators

Design patterns for extending Kubernetes
Operators
Example operator implementation

Appendix 3: Astra Trident monitoring

Available options for monitoring Astra Trident
Monitor Astra Trident with Prometheus

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
19 Aug 2024	Virtual Classroom (CET +1 / UTC +2)		English	Classroom		€2,040.00
07 Oct 2024	Virtual Classroom (CET +1 / UTC +2)		English	Classroom		€2,040.00
09 Dec 2024	Virtual Classroom (CET +1 / UTC +2)		English	Classroom		€2,040.00

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)