Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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NetApp **Using Astra Trident with Kubernetes**

CODE:

LENGTH:

PRICE:

NEP_UATWK

16 Hours (2 days)

€1,900.00

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 / UTC+1)	CEDT	English	Classroom		€1,900.00
07 Oct 2024	Virtual Classroom (CET / UTC+1)	CEDT	English	Classroom		€1,900.00
09 Dec 2024	Virtual Classroom (CET / UTC+1)	CET	English	Classroom		€1,900.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.