



Enterprise Computing Solutions - Education Services

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Using Astra Trident with Kubernetes

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| CODE: | LENGTH: | PRICE: |
| NEP_UATWK | 16 Hours (2 dage) | kr 13,900.00 |

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 kubectrl 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.

Written for Kubernetes v1.29 and Astra Trident 24.02, this course includes an appendix on how to monitor Astra Trident by using Prometheus and Grafana.

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 storage that is managed by Astra Trident
- Use Astra Trident to manage frequently seen use scenarios
- Monitor Astra Trident by using Prometheus and Grafana

Audience

- Systems Administrators
- Architects
- Integration Engineers

Prerequisites

Basic Linux Administration Skills

Programme

- Persistent storage in Kubernetes
- Container storage
- Kubernetes storage concepts

Module 1: Kubernetes Storage Overview • Dynamic provisioning with Astra Trident **Module 2: Installation**

- Astra Trident details
- Astra Trident installation
- Configure back ends
- Manage storage classes
- Module 3: Configuration** • Create persistent volumes by using Astra Trident
 - Manage Snapshot copies with Astra Trident
 - Expand volumes by using Astra Trident
 - Import volumes by using Astra Trident

Module 4: Usage Scenarios • Manage multiple-zone storage by using Astra Trident **Appendix 1: Kubernetes Certifications**

- Cloud Native Computing Foundation exams
- NetApp Kubernetes-related exams
- Design patterns for extending Kubernetes
- Operators
- Appendix 2: Introduction to operators** • Example operator implementation
- Available options for monitoring Astra Trident

Appendix 3: Astra Trident Monitoring • Monitor Astra Trident with Prometheus **Appendix 4: GitsOps introduction**

- GitOps definition
- GitOps benefits
- Set up Argo CD **Appendix 5: Astra provisioning security**
- Discuss customer challenges to secure a Kubernetes environment using ONTAP and Astra provisioning
- Examine how to secure an SVM
- Explain how to secure the NFS workloads
- Describe how to secure the iSCSI workloads

Session Dates

| Date | Location | Time Zone | Language | Type | Guaranteed | PRICE |
|-------------|----------------------------------|-----------|----------|-----------------------|------------|-----------------|
| 09 Dec 2024 | Virtual Classroom (CET / UTC +1) | CET | English | Classroom | | kr 13,900.00 |
| 13 Jan 2025 | Virtual Classroom (GMT / UTC) | GMT | English | Instructor Led Online | | kr 13,900.00 |
| 07 Apr 2025 | Virtual Classroom (GMT / UTC) | BST | English | Instructor Led Online | | kr 13,900.00 |
| 26 Aug 2025 | Virtual Classroom (GMT / UTC) | BST | English | Instructor Led Online | | kr 13,900.00 |
| 13 Oct 2025 | Virtual Classroom (GMT / UTC) | BST | English | Instructor Led Online | | kr 13,900.00 |
| 15 Dec 2025 | Virtual Classroom (GMT / UTC) | GMT | English | Instructor Led Online | | kr 13,900.00 |

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