



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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# Using Astra Trident with Kubernetes

CODE:	LENGTH:	PRICE:
NEP_UATWK	16 Hours (2 days)	£1,795.00

## 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	BST	English	Classroom		£1,795.00
07 Oct 2024	Virtual Classroom	BST	English	Classroom		£1,795.00
09 Dec 2024	Virtual Classroom	GMT	English	Classroom		£1,795.00

**Additional Information**

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