



Enterprise Computing Solutions - Education Services

## OFERTA FORMATIVA

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# Using Astra Trident with Kubernetes

<b>CÓDIGO:</b>	<b>DURACIÓN:</b>	<b>Precio:</b>
NEP_UATWK	16 Hours (2 días)	€1,900.00

## 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 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.

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.

## Objetivos

- 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

## Público

- Systems Administrators
- Architects
- Integration Engineers

## Requisitos Previos

Basic Linux Administration Skills

## Programa

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

### Module 1:Kubernetes Storage Overview • Dynamic provisioning with Astra Trident

- Astra Trident details
- Astra Trident installation
- Configure back ends
- Manage storage classes
- 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 2: Installation

- Cloud Native Computing Foundation exams
- NetApp Kubernetes-related exams

### Appendix 1: Kubernetes Certifications

- 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

## Fechas Programadas

Fecha	Localización	Zona horaria	Idioma	Modalidad de impartición	Impartición garantizada	Precio
09 Dec 2024	Virtual Classroom	CET	English	Classroom		€1,900.00

## Información Adicional

[Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.](#)