

Using Astra Trident with Kubernetes

Cursusduur: 3 Dagen Cursuscode: NEP_UATWK

Beschrijving:

English - Please note this course is only available in English.

Nederlands - Let op: deze training is alleen in het Engels beschikbaar.

Franais - Veuillez noter que ce cours est uniquement disponible en anglais.

Learn how to install, configure, and use NetApp® Trident to manage Kubernetes with NetApp ONTAP® based storage systems. Deploy NetApp Trident by using the Trident operator and then use the tridentctl and kubectl methods to manage configurations. Configure NFS-backed, iSCSI-backed, NAS economy-backed, and NVMe-over-TCP (NVMe/TCP) backed storage. Manage Snapshot copies, expand volumes, and import non-NetApp Trident volumes to become managed volumes. Install and configure Trident Protect to protect Kubernetes applications by using snapshots and backups. Restore snapshots and backups in place and to new namespaces. Finally, protect applications across clusters by using cloning and asynchronous SnapMirror.

Written for Kubernetes v1.29, NetApp Trident 24.10, and NetApp Trident Protect 24.10.1, this course includes appendixes on Kubernetes certifications, operator design patterns to extend Kubernetes, and a GitOps introduction.

Doelgroep:

Systems Administrators
Architects
Integration Engineers

Doelstelling:

- Describe Kubernetes storage concepts
 - Explain how Trident makes managing persistent storage easier, and install Trident in a Kubernetes cluster
 - Configure back ends, storage classes, and persistent volumes to use storage that Trident manages
 - Use Trident to manage common scenarios
 - Install and use Trident Protect to protect Kubernetes applications
 - Protect across clusters by cloning and mirroring applications
 - Monitor Trident by using Prometheus and Grafana
 - Investigate security options to ensure a secure Kubernetes environment
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Vereiste kennis en vaardigheden:

Basic Linux Administration Skills

Cursusinhoud:

Module 1: Kubernetes Storage	Import volumes	Module 8: Security
Persistent storage in Kubernetes	Manage multiple -zone storage	SVM hardening
Container storage	Consumption and performance control	NFS hardening
Kubernetes storage concepts	Cross-namespace volume access	iSCSI hardening
Static provisioning	Module 5: Protection	Module 9: Next steps
Dynamic provisioning	Trident Protect installation	Appendix 1: Kubernetes Certifications
Module 2: Trident installation	Application protection	• Cloud Native Computing Foundation exams
NetApp Trident details	Application restoration	• NetApp Kubernetes-related exams
NetApp Trident installation	Tridentctl-protect	Appendix 2: Introduction to operators
Module 3: Configuration	Module 6: Business continuity	• Design patterns for extending Kubernetes
Configure back ends	Use cases	• Operators
Manage storage classes	Restoring an app to a new cluster	• Example operator implementation
Create persistent volumes by using NetApp Trident	Application mirroring	Appendix 3: GitOps introduction
Custom naming conventions	MetroCluster support	• GitOps definition
Module 4: Usage Scenarios	Module 7: Monitoring	• Benefits of GitOps
Manage Snapshot copies	Available options for monitoring NetApp Trident	• Set up Argo CD
Expand volumes	Monitor with Prometheus and Grafana	

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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