NetApp Using NetApp Trident with Kubernetes Training

Duration: **3 Day**

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Learn how to install, configure, and use NetApp® Trident to manage Kubernetes with NetApp ONTAP® based storage systems. Deploy 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 Volume and VolumeGroup 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. Protect applications across clusters by using cloning and SnapMirror asynchronous technology. Finally, manage and protect KubeVirt virtual machines (VMs) using Trident and Trident Protect.

Written for Kubernetes v1.35, NetApp Trident, and NetApp Trident protect 26.02, this course includes appendixes on Kubernetes certifications, operator design patterns to extend Kubernetes, and a GitOps introduction.

Prerequisites

Basic Linux administration skills

What You Will Learn

• 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
• Explore how to run virtual machines in Kubernetes