

## ***ST260c-EN NetApp SAN Implementation incl. Brocade***

### **Kurzbeschreibung:**

Setup of a SAN Environment with ONTAP as a preparation for the NCIE SAN Certification

### **Zielgruppe:**

SAN- / NetApp Administrators

### **Voraussetzungen:**

**Basic ONTAP knowledge is required.**

### **Sonstiges:**

**Dauer:** 5 Tage

**Preis:** 4500 Euro plus Mwst.

### **Ziele:**

After this workshop the student should be able to set up a Storage Area Network with ONTAP. Although the student will know how to connect servers to the SAN.

**Basic ONTAP knowledge is required.**

## Inhalte/Agenda:

- - ◆ SAN (FC, FCoE and iSCSI)
    - ◆ Components
    - ◆ Topologies
    - ◆ Terms
    - ◆ Zoning
    - ◆ LUN-Masking/-Mapping
  - ◆ Overview FC-NVMe
    - ◆ Configuration NetApp
    - ◆ Configuration Server
  - ◆ Brocade FC Switch Administration (8/16/32 Gb)
    - ◆ Initial Setup
    - ◆ Zoning (CLI, GUI)
  - ◆ ONTAP 8.3 / 9.x SAN Configuration
    - ◆ FC/IP SAN Setup
      - ◆ . Licensing
      - ◆ . Storage Provisioning
      - ◆ . SVMs (Vserver)
      - ◆ . HBA Management
      - ◆ . LIFs
      - ◆ . LUNs
      - ◆ . Initiator Groups
      - ◆ . Portsets
  - ◆ HBAs: (Brocade)/Emulex/QLogic
    - ◆ Installation
    - ◆ Diagnose
    - ◆ GUI
  - ◆ Connecting Windows/VMware/Linux Servers via FC (in practice) and iSCSI (in theory)
    - ◆ Requirements
    - ◆ Multipathing with ALUA
    - ◆ SCSI Command Queue
    - ◆ Supported configurations
    - ◆ Software Installation (Drivers, Tools)
    - ◆ Administration of disks with SnapDrive
  - ◆ **SAN Troubleshooting**
  - ◆ SAN Performance - A700 with 32 Gbit FC