

## ***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
- Support and service staff

### **Voraussetzungen:**

In order to be able to follow the course content and learning pace in the workshop **ST260c-EN NetApp SAN Implementation incl. Brocade**, basic ONTAP knowledge and basic knowledge of at least one of the server operating systems is required

### **Sonstiges:**

**Dauer:** 5 Tage

**Preis:** 4700 Euro plus Mwst.

### **Ziele:**

After the workshop **ST260c-EN NetApp SAN Implementation incl. Brocade** 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.

## 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 (16/32/64 Gb)**
  - ◆ ◇ FOS 8.x / 9.2.x
  - ◆ ◇ Initial Setup
  - ◆ ◇ Zoning (CLI, GUI)
  - ◆ ◇ Overview SANnav
  
- ◆ **◆ ONTAP 9.x SAN Configuration**
  - ◆ ◇ FC/IP SAN Setup
  - ◆ ◇ Licensing
  - ◆ ◇ Storage Provisioning
  - ◆ ◇ SVMs (Vserver)
  - ◆ ◇ HBA Management
  - ◆ ◇ LIFs
  - ◆ ◇ LUNs
  - ◆ ◇ Initiator Groups
  - ◆ ◇ Portsets
  
- ◆ **◆ HBAs: Emulex / QLogic**
  - ◆ ◇ Installation
  - ◆ ◇ Diagnose
  - ◆ ◇ GUI
  
- ◆ **◆ Connecting Windows/VMware/Linux Servers via FC (in practice) and iSCSI (as required)**
  - ◆ ◇ Requirements
  - ◆ ◇ Special features regarding servers with ONTAP
  - ◆ ◇ Multipathing with ALUA
  - ◆ ◇ SCSI Command Queue
  - ◆ ◇ Supported configurations
  - ◆ ◇ Software Installation (Drivers, Tools)
  
- ◆ **◆ SAN Troubleshooting**
  
- ◆ **◆ SAN Performance - A700 with 32 Gbit FC**