

## ***ST274c-EN MetroCluster Administration***

### **Kurzbeschreibung:**

Metrocluster IP 9.15.1 Installation, configuration and administration including switch configuration.

### **Zielgruppe:**

Administrators of partners and customers

### **Voraussetzungen:**

To be able to follow the learning content as well as the learning pace of the course **ST274c MetroCluster Administration** effectively, solid knowledge of ONTAP, Linux, networking, and Windows is essential.

We recommend attending the following training courses in advance, depending on your previous knowledge:

[ST200c ONTAP 9.x Admin Basics](#)

[ST217c ONTAP 9.x - NAS Advanced incl. Troubleshooting](#)

[ST260c NetApp SAN Implementation incl. Brocade](#)

[LI103 Linux Advanced](#)

[MS126 Windows Server 2025 - Migration for IT Pros](#)

### **Sonstiges:**

**Dauer:** 5 Tage

**Preis:** 4700 Euro plus Mwst.

### **Ziele:**

This training shows you in the style of a workshop both theoretically and practically how to configure and connect the Metro Cluster IP and the entire infrastructure. The training is conducted with 4 A220 systems (or 2 complete metroclusters), 8 BES-53248 switches and ClusterLion. In addition, physical VMware, Windows and Linux systems are connected and the various switchover and switchback scenarios are tested.

The certification NS0-527 can be done at the end of the course.

## Inhalte/Agenda:

- ♦ **2 x MetroCluster-IP 9.15.1 with A220**
  - ♦ ◇ 8 x BES switches
  - ♦ ◇ 2 x ClusterLion
  - ♦ ◇
- ♦ Overview
- ♦ Network basics: tagged, untagged VLANs, spanning tree, link aggregation, hash algorithms, QoS, ECN
- ♦ Cabling
- ♦ BES, Cisco and Metrocluster Compliant Switches Configuration
- ♦ Metrocluster configuration
- ♦ Switchover, Switchback
- ♦ Reconstruction of a completely destroyed site
- ♦ MAUSO (Mediator-assisted automatic unplanned switchover).
- ♦ **Tiebreaker, Mediator, ClusterLion configuration and testing**
- ♦ Linux NetEM WAN simulator to test latency (distance)
  - ♦ ◇ Packet loss, duplication, out-of-order delivery.
  - ♦ ◇ Corruption and Jitter
- ♦ Windows, Linux, ESX connectivity via iSCSI, NFS and CIFS
- ♦ Performance testing with FIO
- ♦ Discuss and execute failure scenarios
- ♦ Troubleshooting
- ♦ Best practices
- ♦ Active IQ Config Advisor
- ♦ Open Lab Time for consolidation
- ♦ **Exam preparation**
- ♦ Accreditation exam NS0-014