

ST233c-EN ONTAP Troubleshooting

Kurzbeschreibung:

Analyse and identify Hardware- and Configuration issues

Zielgruppe:

Experience NetApp Partner employees

Voraussetzungen:

NCDA certification and several years of ONTAP experience is absolutely necessary.

Sonstiges:

Dauer: 5 Tage

Preis: 4700 Euro plus Mwst.

Ziele:

In this workshop the students learn methods to analyse hard- and software problems and how to use tools to check the system configuration.

Inhalte/Agenda:

- ♦ ONTAP Troubleshooting
 - ♦ ♦ Clustershell Tipps and Tricks
 - ♦ ♦ Systemshell and FreeBSD
 - ♦ ♦ Kernel modules and Cluster Services
 - ♦ ♦ Essential Processes and Watchdog Daemon
 - ♦ ♦ Replicated Databases, Epsilon and Quorum
 - ♦ ♦ Configuration Databases
 - ♦ ♦ Job Manager and Scheduling
 - ♦ ♦ SK (simple kernel)
 - ♦ ♦ Logs and Traces

- ♦ Network Troubleshooting
 - ♦ ♦ Ports (physical, IFGRP, VLAN)
 - ♦ ♦ LIFs (Backend and Frontend)
 - ♦ ♦ IPspaces, Broadcast Domains and Failover Groups
 - ♦ ♦ Firewall policies
 - ♦ ♦ Multitenancy with DNS, AD, NIS and LDAP
 - ♦ ♦ Cluster Interconnect and Cluster Session Manager (CSM)

- ♦ Troubleshooting of NAS protocols:
 - ♦ ♦ SecD, Authentication and Usermapping (multiprotocol)
 - ♦ ♦ important Caches
 - ♦ ♦ NFS Services and configuration
 - ♦ ♦ NFS Filehandles
 - ♦ ♦ CIFS Services and configuration
 - ♦ ♦ User permissions
 - ♦ ♦ sectrace

- ♦ Troubleshooting of SAN protocols:
 - ♦ ♦ MPIO and ALUA
 - ♦ ♦ Selective LUN mapping
 - ♦ ♦ bcomd and other Internals
 - ♦ ♦ Logs and Traces