

# **NetApp-Trainings**

## **Additional values at qSkills**



# NetApp-Trainings: Additional values at qSkills

## ST200c | ONTAP 9.x Admin Basics

- » Physical hardware AFF A220
- » Optimal learning technique for beginners
- » Theory & practice in a balanced ratio
- » Optimised use of Netapp hardware & simulators
- » Many practical exercises

## ST230c | Performance Analysis on Clustered Data ONTAP

- » No recourse to simulators and one separate node per participant
- » Handling of real IO loads for predictions
- » Consideration of the entire environment incl. network and client analysis
- » Practical exercises regarding physical limits and configuration errors with real effects
- » Many practical examples incl. checklists

## ST217c | ONTAP 9.x - NAS Advanced incl. Troubleshooting

- » Discussing of the protocols CIFS and NFS as powerful analysis tools
- » Consideration of the operating systems Unix and Windows
- » File system specifics and user management
- » Additional important commands for troubleshooting and performance analysis
- » Time for many questions and exercises

## ST251c | Implementing VMware vSphere on NetApp

- » Focus on added value of the combination of VMware vSphere and ONTAP
- » vSphere 7 and vSphere 8 based
- » Labs for configuring iSCSI, NFS, NVMe over TCP
- » Restore from NetApp snapshots
- » Best practice exercises

## ST221c | ONTAP 9.x Data Protection & High Availability

- » Detailed treatment of MetroCluster
- » Conducting MetroCluster exercises on physical hardware (both FC and IP)
- » Test different scenarios
- » Many practical exercises

## ST254c | SAP HANA and NetApp

- » Unique combination of SAP HANA architecture and operation in interaction with NetApp technology
- » Setting operating system parameters for SAP HANA with saptune
- » Setting SAP HANA parameters for NetApp
- » Installation and configuration of SAP HANA with NetApp storage
- » Practical exercises regarding high availability and backups with the snapshot technology

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## ST260c | NetApp SAN Implementation incl. Brocade

- » Detailed treatment of SAN
- » Setup of a storage area network incl. connecting servers
- » Integration with VMware
- » Practical exercises with physical hardware (GEN7, GEN6, GEN5)

## ST274c | MetroCluster 9.x Install & Configure (IP)

- » Physical hardware (AFF A220 and BES switches) including physical cabling
- » Implementing, updating and migration of a MetroCluster IP
- » Practical exercises on Mediator and ClusterLion (troubleshooting)
- » Performance tests (WAN simulator, range test)
- » Reconstruction after a complete site loss
- » 8-node MCIP LAB

## ST269c | ONTAP 9.x NAS- & SAN Automation with Ansible

- » Focus on automation with Ansible
- » Various graphical frontends of Ansible with their strengths and weaknesses
- » Empowerment to increase efficiency, reduce error sources, administration in inventory
- » Always the latest updates, features and bug fixes
- » Tips for switching from WFA to Ansible

## ST290 | StorageGRID Installation and Administration

- » Physical StorageGRID hardware (4x SG5712 and 1x SG100)
- » Practical exercises regarding installation, extension, upgrade, patching
- » Integration and practical application of a fabric pool
- » Setup a fabric pool with physical hardware systems
- » Additional recovery exercises

## ST271c | MetroCluster 9.x Install & Configure (FC)

- » Installation and configuration of a MetroCluster incl. cabling
- » Detailed test of all important failure scenarios
- » SAN administration and configuration of Brocade switches
- » Failure tests with ClusterLion (TieBreaker)
- » Many practical exercises

## ST295c | Integr. Hybrid Clouds with AWS and Azure

- » ONTAP Select
- » Fully meshed network between AWS, Azure, GCP and onprem
- » Practical exercises for cloud products in different clouds incl. HA
- » One physical ESX server per participant
- » Performance tests
- » Active Directory connection for CVS, FSx ONTAP, CVO

# Hands-On Trainings: Additional values at qSkills

