

# **Enterprise Computing Solutions - Education Services**

# **TRAINING OFFERING**

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## **■ NetApp** Cluster Administration

CODE: LENGTH: PRICE:

NEP\_OT-CLU-A 24 Hours (3 days) €2,850.00

### **Description**

Learn how to perform the basic administration tasks of a NetApp® ONTAP® 9.16 cluster. Use the clustershell and NetApp ONTAP System Manager to manage cluster storage and network resources. Discover how to configure basic data protection and data efficiency functions and common cluster maintenance tasks.

### **Objectives**

This course focuses on enabling you to do the following:

- Define ONTAP cluster components
- Describe the role of a storage VM (storage virtual machine, also known as SVM) in the NetApp storage architecture
- · Configure an ONTAP cluster
- Configure and manage both networking and storage resources
- · Create and configure a storage VM
- Create, manage, and protect NetApp FlexVol® volumes
- Implement storage efficiency features
- Manage ONTAP administrator access and user accounts
- Manage NetApp storage systems

### **Audience**

Administrator, architect, and operator

### **Prerequisites**

- ONTAP Cluster Fundamentals
  (web-based training [WBT]) or ONTAP Cluster Foundation (ILT)
- ONTAP NAS Fundamentals (WBT)
- ONTAP SAN Fundamentals (WBT)

### **Programme**

This course includes the following modules, lessons, and exercises:

### Module 1: ONTAP 9 clusters

- ONTAP deployment options
- ONTAP cluster
- Storage VMs
- Software-defined storage

### Module 2: Cluster setup

- Supported ONTAP cluster configurations
- Setting up a cluster
- · Administration interfaces
- ONTAP licenses
- · Policies and schedules

#### **Exercises**

- · Deploying an ONTAP cluster
- Exploring ONTAP management UIs

### Module 3: Physical storage management

- · Drives, RAID, and aggregates
- Advanced Disk Partitioning
- Flash Cache and Flash Pool features
- FabricPool aggregates
- · Managing physical storage

### Exercises

• Exploring RAID-TEC

### Module 4: Logical storage management

- Flexible volumes
- · Moving storage resources
- FlexGroup volumes
- FlexCache volumes

#### Exercises

- Managing data volumes
- · Creating a FlexGroup volume

### Module 5: Storage efficiency

- Thin provisioning
- Deduplication and compression
- Flash efficiency
- · Volume and file clones

#### Exercises

- · Managing storage efficiency
- Managing FlexClone volumes

### Module 6: Network management

- ONTAP network review
- Network ports
- Network traffic segregation
- Logical network interfaces
- Nondisruptive LIF configuration
- Routing management

### **Exercises**

- · Managing physical and logical network resources
- · Managing virtual network resources

### Module 7: NAS data access

- Use NAS protocols to access data
- Use the NFS protocol to access data
- Use the SMB protocol to access data

• Use the S3 protocol to access data

### Exercises

- Monitoring with ONTAP File System Analytics
- · Configuring the NFS protocol in a storage VM
- Configuring the SMB protocol in a storage VM
- Configuring the S3 protocol in a storage VM

#### Module 8: SAN data access

- Use SAN protocols to access data
- Use the iSCSI protocol to access data
- Use the FC protocol to access data
- Use the NVMe protocol to access data

#### Exercises

- Configuring iSCSI in a storage VM
- Configuring NVMe in a storage VM

### Module 9: Data protection

- Manage Snapshot copies
- · Restore data from a Snapshot copy
- · Back up and replicate data
- Compliance

### **Exercises**

Managing Snapshot copies

### Module 10: ONTAP security

- · Access control
- Storage encryption
- Ransomware protection

### Exercises:

Managing ONTAP administrators

### Module 11: Cluster maintenance

- Data collection, monitoring, and automation tools
- Upgrading your cluster
- · Technical support

### **Exercises**

• Installing and configuring Active IQ Config Advisor

### **Test and Certification**

### **Session Dates**

| Date           | Location                         | Time<br>Zone | Language | Туре                     | Guaranteed | PRICE     |
|----------------|----------------------------------|--------------|----------|--------------------------|------------|-----------|
| 05 Jan<br>2026 | Virtual Classroom (GMT / UTC)    | GMT          | English  | Instructor Led<br>Online |            | €2,850.00 |
| 09 Feb<br>2026 | Virtual Classroom (GMT /<br>UTC) | GMT          | English  | Instructor Led<br>Online |            | €2,850.00 |
| 23 Mar<br>2026 | Virtual Classroom (GMT /<br>UTC) | GMT          | English  | Instructor Led<br>Online |            | €2,850.00 |
| 20 Apr<br>2026 | Virtual Classroom (GMT /<br>UTC) | BST          | English  | Instructor Led<br>Online |            | €2,850.00 |
| 18 May<br>2026 | Virtual Classroom (GMT /<br>UTC) | BST          | English  | Instructor Led<br>Online |            | €2,850.00 |
| 22 Jun<br>2026 | Virtual Classroom (GMT /<br>UTC) | BST          | English  | Instructor Led<br>Online |            | €2,850.00 |
| 06 Jul<br>2026 | Virtual Classroom (GMT /<br>UTC) | BST          | English  | Instructor Led<br>Online |            | €2,850.00 |
| 21 Sep<br>2026 | Virtual Classroom (GMT /<br>UTC) | BST          | English  | Instructor Led<br>Online |            | €2,850.00 |
| 26 Oct<br>2026 | Virtual Classroom (GMT /<br>UTC) | GMT          | English  | Instructor Led<br>Online |            | €2,850.00 |
| 23 Nov<br>2026 | Virtual Classroom (GMT / UTC)    | GMT          | English  | Instructor Led<br>Online |            | €2,850.00 |
| 14 Dec<br>2026 | Virtual Classroom (GMT / UTC)    | GMT          | English  | Instructor Led<br>Online |            | €2,850.00 |
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### **Additional Information**

This training is also available as onsite training. Please contact us to find out more.