

StorageGRID Software Troubleshooting

Duration: 3 Days **Course Code: NEP_SG-TS** **Delivery Method: Virtual Learning**

Overview:

In this course, students learn troubleshooting skills to support the implementation and lifecycle management of NetApp StorageGRID software. Through theoretical explanations and hands on exercises, delegates will learn to control the architecture, option, services and features of the StorageGRID system

Students will also learn about the security and authentication mechanisms, logging and monitoring resources and Apache Cassandra implementation. Additionally, the processes to expand and upgrade the system, FabricPool technology plus investigating Simple Storage Services (S3) issues.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

Professionals & Engineers who use or implement StorageGRID solutions (from all audience types). Supporting the following job roles..

Systems Administrators System Operators System Engineers

Objectives:

- Understand the networking architecture of a StorageGRID deployment
- Describe the load-balancing features of StorageGRID
- Review the StorageGRID services and ports
- Understand the impact of the StorageGRID options
- Understand the Cassandra implementation in StorageGRID
- Review the StorageGRID security and authentication mechanisms
- Define the StorageGRID logging and monitoring resources
- Review the expansion and upgrade processes
- Examine FabricPool technology with StorageGRID
- Investigate S3 issues with StorageGRID

Prerequisites:

- 6 to 12 months of StorageGRID experience
- The NetApp StorageGRID Implementation Engineer accreditation (see NetApp Accreditation link below)
- Good knowledge of Simple Storage Service (S3)
- StorageGRID Troubleshooting Essentials (via NetApp Learning Center link below)
- DataStax DS101 and DS201 training courses

[NetApp Accreditation Details](#)

[NetApp Learning Center](#)

Content:

Module 1:StorageGRID networking	• Cassandra startup	Exercises
StorageGRID network topology	• Nodetool	Troubleshooting StorageGRID authorization
Exercises	Exercises	Module 8:StorageGRID performance troubleshooting
Examining StorageGRID network architecture	Examining Cassandra fundamentals	• StorageGRID performance factors
Module 2:StorageGRID software concepts	Module 5:TroubleshootingStorageGRID decommission,expansion and upgrade	• Identify performance bottlenecks
• Grid node services	• StorageGRID decommissioning	Exercises
• Managing node services	• StorageGRID expansion process and issues	Examining StorageGRID performance details
• StorageGRID configuration options	• StorageGRID major version upgrade	Module 9:ONTAP FabricPool with StorageGRID
Exercises	Exercises	• FabricPool object store
Exploring nodetool commands	Decommissioning and upgrading	• Investigate object store unavailability
Module 3:StorageGRID logging and monitoring	Module 6: StorageGRID authentication and user management	• Troubleshooting connection issues
• StorageGRID service log files	• StorageGRID authorization and authentication	• Object store access issues
• StorageGRID audit logging	• StorageGRID multitenancy implementation	Exercises
• Log analysis	Exercises	Troubleshooting ONTAP FabricPool technology
• Log forwarding	Configuring StorageGRID authentication	Module 10:Troubleshoot S3 client and application issues
Exercises	Module 7:Troubleshooting StorageGRID security issues	• Troubleshoot S3 request failures
Managing StorageGRID logs	• StorageGRID security	• S3 request logging
Module 4: Troubleshooting Cassandra	• StorageGRID system hardening	
• Cassandra fundamentals	• Certificate-related Issues	

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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