Veritas NetBackup 8.1.2: Maintenance and Troubleshooting

Troubleshooting Methods and Tools
- Troubleshooting situations and methodology
- Gathering symptoms and information
- Additional troubleshooting resources

Labs:
- Exercise A: Introduction to the lab environment
- Exercise B: Navigating the NetBackup Administration Console
- Exercise C: Viewing the NetBackup configuration
- Exercise D: Testing backups and restores
- Exercise E: Identifying tools for analyzing backup and restore problems

NetBackup Process Flow
- Core process functions overview
- Backup process flow
- Tape restore process flow
- Disk restore process flow
- Viewing process flow information

Labs:
- Exercise A: Tracing backup process flow to tape-based storage
- Exercise B: Tracing backup process flow to tape-based storage
- Exercise C: Tracing restore process flow
- Exercise D: Tracing process flow for a failed job

Troubleshooting Communication Issues
- Understanding NetBackup communication
- Configuring NetBackup and network communication
- Troubleshooting network and NetBackup communication problems
- Common NetBackup communication issues

Labs:
- Exercise A: NetBackup communications – problem scenario 1 (Windows)
- Exercise B: NetBackup communications – problem scenario 2 (Windows)
- Exercise C: NetBackup communications – problem scenario 3 (Windows)
- Exercise D: NetBackup communications – problem scenario 1 (Linux)
- Exercise E: NetBackup communications – problem scenario 2 (Linux)
- Exercise F: NetBackup communications – problem scenario 3 (Linux)

Troubleshooting Tape Devices and Media
- NetBackup device troubleshooting
- Common NetBackup device issues
- Media and device selection
- Media-related status codes
- Troubleshooting frozen and suspended media

Labs:
- Exercise A: Tape devices and media – problem scenario 1 (Windows)
- Exercise B: Tape devices and media – problem scenario 2 (Windows)
- Exercise C: Tape devices and media – problem scenario 1 (Linux)
- Exercise D: Tape devices and media – problem scenario 2 (Linux)

Troubleshooting Disk Backups Resources
- Overview of disk-based backups
- Maintaining and Troubleshooting Basic Disk
- Maintaining and Troubleshooting Advanced Disk
- Maintaining and Troubleshooting OpenStorage

Labs:
- Exercise A: Disk devices – problem scenario 1 (Windows)
- Exercise B: Disk devices – problem scenario 2 (Windows)
- Exercise C: Disk devices – problem scenario 1 (Linux)
- Exercise D: Disk devices – problem scenario 2 (Linux)

Troubleshooting NetBackup Deduplication
- Understanding NetBackup deduplication and deduplication process flow
- Maintaining and troubleshooting NetBackup deduplication
- Protecting from MSDP server failure

Labs:
- Exercise A: Monitoring and troubleshooting MSDP
- Exercise B: Verifying a MSDP Backup Image
- Exercise C: Discovering and fixing orphan MSDP data

Additional Backup and Restore Troubleshooting
- Troubleshooting file system backups
- Troubleshooting snapshot-based backups
- Troubleshooting VMware backups
- Troubleshooting Hyper-V backups
- Troubleshooting restores

Labs:
- Exercise A: Backup and restore – problem scenario 1 (Windows)
- Exercise B: Backup and restore – problem scenario 2 (Windows)
- Exercise C: Backup and restore – problem scenario 3 (Windows)
- Exercise D: Backup and restore – problem scenario 1 (Linux)
- Exercise E: Backup and restore – problem scenario 2 (Linux)
- Exercise F: Backup and restore – problem scenario 3 (Linux)

Troubleshooting Storage Lifecycle Policies
- Understanding Storage Lifecycle Policies
- Troubleshooting Storage Lifecycle Policies
- Troubleshooting data classification
- Understanding Auto Image Replication
- Troubleshooting Auto Image Replication

Labs:
- Exercise A: Storage Lifecycle Policies – problem scenario 1 (Windows)
- Exercise B: Storage Lifecycle Policies – problem scenario 2 (Windows)
- Exercise C: Storage Lifecycle Policies – problem scenario 1 (Linux)
- Exercise D: Storage Lifecycle Policies – problem scenario 2 (Linux)

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Debug Logging
- Preparing to gather debug logs
- Enabling debug logs
- Performing log management
- Capturing debug logs

Labs:
- Exercise A: Enabling Debug Logs
- Exercise B: Setting the logging levels
- Exercise C: Enabling legacy logging
- Exercise D: Running manual backups
- Exercise E: Collecting logs and copying them to the file share

Introduction to Log Analysis
- Preparing for debug log analysis
- Viewing debug logs
- Analyzing debug logs for a successful backup job
- Analyzing debug logs for a failed backup job

Labs:
- Exercise A: Locating backup information in the Activity Monitor
- Exercise B: Locating collected log files
- Exercise C: Viewing and analyzing logs

Understanding the NetBackup Catalog
- The NetBackup catalog
- The NetBackup relational databases (NBDB)
- Catalog backup and recovery
- Maintaining the NBDB

Labs:
- Exercise A: Reviewing the NetBackup catalog structure
- Exercise B: Configuring, performing, and analyzing catalog backups
- Exercise C: Using the cat_convert command
- Exercise D: Corrupting the NBDB
- Exercise E: Recovering the NBDB
- Exercise E: Option 1 – Recovering the NBDB from a backup
- Exercise E: Option 2 – Recovering the NBDB from staging