

# Veritas Volume Manager Syllabus

## 1. Volume Manager

- 1.1. What is volume management?
- 1.2. Why vxvm and vxfs?
- 1.3. Features of vxvm and vxfs
- 1.4. Prerequisites

## 2. VxVM Administration

### 2.1 VxVM Objects

- 2.1.1 Physical Objects
- 2.1.2 Virtual Objects
  - 2.1.2.1. Volumes
  - 2.1.2.2. Plexes
  - 2.1.2.3. Subdisks
  - 2.1.2.4. VM Disks
  - 2.1.2.5. Diskgroups

### 2.2. Administering Volumes

- 2.2.1. Displaying volume information
- 2.2.2. Creating Volumes
- 2.2.3. Deleting Volumes
- 2.2.4. Mirroring Volumes
- 2.2.5. Moving Volumes from a VM Disk
- 2.2.6. Stopping and Starting a volume
- 2.2.7. Adding and Removing DRL Logging to volumes
- 2.2.8. Volume States
- 2.2.9. Volume Sets

### 2.3. Administering Plexes

- 2.3.1. Displaying Plex Information
- 2.3.2. Creating Plexes
- 2.3.3. Deleting and Disassociating Plexes
- 2.3.4. Moving Plexes
- 2.3.5. Detaching Plexes
- 2.3.6. Copying Plexes
- 2.3.7. Offlining Plexes

### 2.4. Administering Subdisks

- 2.4.1. Displaying subdisk information
- 2.4.2. Creating Subdisks
- 2.4.3. Deleting Subdisks
- 2.4.4. Moving Subdisks
- 2.4.5. Splitting Subdisks
- 2.4.6. Joining Subdisks
- 2.4.7. Associating Subdisks with Plexes
- 2.4.8. Associating Log subdisks
- 2.4.9. Dissociating Subdisks from Plexes

### 2.5. Administering VMDisks

- 2.5.1. Displaying disk information
- 2.5.2. Adding disk to VxVM
- 2.5.3. Adding disk to diskgroup
- 2.5.4. Removing disk from VxVM Control
- 2.5.5. Removing a disk from diskgroup
- 2.5.6. Encapsulating a Disk for Use in VxVM
- 2.5.7. Un-encapsulating the Root Disk
- 2.5.8. Taking a disk offline
- 2.5.9. Taking a disk online
- 2.5.10. Renaming a disk
- 2.5.11. Reserving a Disk

- 2.5.12. Setting and Unsetting Spare disk
- 2.5.13. Mirroring a disk
- 2.5.14. Using vxdiskadm
- 2.6. Administering Disk Groups**
  - 2.6.1. Displaying disk group information
  - 2.6.2. Creating a disk group
  - 2.6.3. Extending a disk group
  - 2.6.4. Reducing a disk group
  - 2.6.5. Destroying a disk group
  - 2.6.6. Deporting a disk group
  - 2.6.7. Importing a disk group
  - 2.6.8. Renaming a disk group
- 2.7. Online Administration**
  - 2.7.1. Online Resizing
  - 2.7.2. Administering Volume Snapshots.
  - 2.7.3. Administering Hot-Relocation
  - 2.7.4. Online Relayout
- 2.8. Administering VxVM with VEA**
  - 2.8.1. Introducing to VEA
  - 2.8.2. Setting up your system
  - 2.8.3. Starting and Stopping VEA
- 2.9. Veritas Storage Expert.**
  - 2.9.1. How Storage Expert Works
  - 2.9.2. Identifying Configuration Problems Using Storage Expert
- 3. VxFS Administration**
  - 3.1. VxFS Features**
    - 3.1.1. Extent Based Allocation
    - 3.1.2. Fast File System Recovery
    - 3.1.3. Online System Administration
    - 3.1.4. Extended mount options
    - 3.1.5. Quotas
    - 3.1.6. Storage Checkpoints
    - 3.1.7. Cross Platform Data Sharing
    - 3.1.8. Multi Volume Support
  - 3.2. Managing Veritas File System**
    - 3.2.1. Creating a File System
    - 3.2.2. Mounting a File System
    - 3.2.3. Unmounting a File System
    - 3.2.4. Displaying information on Mounted File System
    - 3.2.5. How to extend the FS using fsadm command.
    - 3.2.6. How to shrink a FS
    - 3.2.7. How to Reorganize a FS
    - 3.2.8. How to create and Mount a Snapshot File System
    - 3.2.9. How to Backup a File System
    - 3.2.10. How to Restore a file system
    - 3.2.11. Using Quotas
    - 3.2.12. How to View Quotas
    - 3.2.13. How to setup user quotas
    - 3.2.14. How to turn off quotas
- 4. Installations**
  - 4.1. Package Description
  - 4.2. Installing vxvm and vxfs
  - 4.3. Checking Installations
  - 4.4. Post Installation Tasks
  - 4.5. Controlling Daemons