

Enterprise Linux High Availability Clustering Eğitimi

Eğitim Hakkında

Enterprise Linux High Availability Clustering eğitimi iki temel alana odaklanır: Linux yüksek kullanılabilirlik (HA) kümeleme ve HA depolama yönetimi. Katılımcılar, etkin / etkin yapılandırmaları etkinleştirmek için kümelenmiş depolama teknolojilerinden nasıl yararlanacaklarını öğrenirler.

Neler Öğreneceksiniz

En iyi uygulamaları kullanarak gerçekçi bir üç düğümlü Linux kümesi oluşturmayı,

Gerçek dünya ortamında çoklu yol, yedekli halka iletişimi, son ayakta duran küme ve paylaşılan depolama senaryoları dahil çok gerçek dünya görevlerini gerçekleştirmeyi,

Cluster Architecture & Design, Pacemaker, Corosync, Fencing, Resource Management, Advanced Resource Management, Multipathing, Cluster LVM v2 ile çalışmayı.

Eğitim İçeriği

Introduction to Clustering And Storage Management

- Clustering Introduction
- Cluster Building Blocks
- Shared Storage
- Hardware and Software Requirements
- Network Considerations
- Split Brain Prevention with Fencing
- HA Components
- Clustered Resources
- Configuration Tools
- Red Hat Cluster Stack Roadmap
- Running Commands on Multiple Systems

Corosync And Quorum Management

- Vocabulary
- Network Topology
- Ethernet Bonding
- Communication Methods
- IPv6 Considerations
- Cluster Node Preparation
- Enable and Configure pcsd



- PCS & PCSD
- Cluster Quorum
- Advanced Quorum Techniques
- Corosync
- Corosync - Redundant Ring Protocol (RRP)
- Corosync Security
- Joining and Leaving the Cluster
- Quorum Administration
- Upgrading

STONITH and Fencing

- Fencing Introduction
- Node Level Fencing
- Node Fencing: External
- Node Fencing: Internal
- Node Fencing: Pseudo
- Resource Level Fencing
- Fencing Architecture
- STONITH Subsystem
- Fencing Agents
- Fencing Agents listing
- STONITH Resources
- Working With stonith_admin
- Manual Fencing
- Best Practices

Pacemaker Cluster Resource Manager

- Cluster Architecture Revisited
- Pacemaker Architecture
- Pacemaker Cluster Information Base (CIB)
- Resource Management Overview
- Component Relationships
- Resource Agents
- Types of Resources
- Resource Naming Conventions
- Resource Specific Parameters/Options
- Resource Meta Parameters/Options
- Resource Agent Operations
- Discover Resource Agents
- Available Resource Agents
- Resource Spotlight: IPAddr2
- Add a Primitive Resource
- Resource Group Management
- Resource Group Example
- Resource Actions: Monitoring
- Resource Administration
- PCS vs. CRM_*

Advanced Resource Configuration

- Resource Placement Basics
- Resource Ordering
- Location Constraints
- Relocating Resources
- Relocation on Failure
- Resource Standard: Clones & Multi-State
- Resource Operations
- Troubleshooting
- Cluster Maintenance

Storage Technologies

- Remote Storage Overview
- Remote Filesystem Protocols
- Remote Block Device Protocols
- Distributed Lock Manager
- dlm_controld & dlm_tool
- Block Devices and the Device Mapper
- Managing Loopback Devices
- ISCSI
- iSCSI Architecture
- iSCSI Target Implementations
- iSCSI Target Node Preparation & targetcli
- iSCSI Target Administration
- iSCSI Target Defining Storage Objects
- iSCSI Target LUN Administration
- iSCSI Target Network Portal Configuration
- iSCSI Target Security
- iSCSI Target Examples
- Open-iSCSI Initiator Implementation
- iSCSI Initiator Discovery
- iSCSI Initiator Node Administration
- Mounting iSCSI Targets at Boot
- iSCSI Multipathing Considerations
- Kernel Device Management
- Managing Linux Device Files

Kernel Hardware Info â€œ /sys/

- /sys/ Structure
- udev
- I/O Elevators

Device Mapper and Multipathing

- SAN Multipathing
- Multipath Configuration
- Multipathing Best Practices

Advanced Lvm & Cluster Lvm

- Logical Volume Management
- Implementing LVM

- Creating Logical Volumes
- Activating LVM VGs
- Exporting and Importing a VG
- Examining LVM Components
- Changing LVM Components
- Advanced LVM Overview
- Advanced LVM: Components & Object Tags
- Advanced LVM: Automated Storage Tiering
- Advanced LVM: Thin Provisioning
- Advanced LVM: Striping & Mirroring
- Advanced LVM: RAID Volumes
- cLVM

Global File System (GFS) 2

- GFS2 Overview
- GFS2 Capabilities
- GFS2 Theory of Operation
- GFS2 Configuration Prerequisites
- Setting Up Cluster LVM
- GFS2 Filesystem Creation & Mounting
- GFS2 Filesystem Management
- GFS2 Fencing Requirement