

Unveiling the Powerhouse Features of RHEL 8 and CentOS 8: A Comprehensive Guide for Administrators

The realm of enterprise computing has witnessed a paradigm shift with the arrival of Red Hat Enterprise Linux (RHEL) 8 and its open-source counterpart, CentOS 8. These operating systems, built upon the rock-solid foundation of the Linux kernel, empower administrators with a wealth of cutting-edge tools and enhancements that revolutionize system management and application deployment.

This comprehensive training workbook is meticulously crafted to guide you through the labyrinth of RHEL 8 and CentOS 8's robust feature set. Embark on an in-depth exploration of the latest advancements that redefine the boundaries of system administration.



Enterprise Linux 8 New Features (RHEL8 / CentOS8): RHEL8, CentOS8 new features for administrators training workbook. by Mick Hosegood

★★★★☆ 4 out of 5

Language : English

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Lending : Enabled



Chapter 1: Navigating the Fundamental Enhancements

Delve into the core improvements that lay the groundwork for enhanced system management:

- **Improved Performance:** Revel in lightning-fast system response times and accelerated application execution with optimized kernel scheduling and memory management.
- **Enhanced Security:** Fortify your systems against cyber threats with SELinux 3.0's advanced policy enforcement, proactive threat detection with OpenSCAP, and secure boot with UEFI.
- **Simplified Package Management:** Embrace the power of DNF 4.0's streamlined package installation, comprehensive dependency resolution, and support for modularity.
- **Advanced Networking:** Unleash the full potential of your network with IPv6 enhancements, expanded support for network namespaces, and improved firewall management.
- **Streamlined Configuration Management:** Gain granular control over your systems with the of systemd v245, enabling centralized configuration and comprehensive service management.

Chapter 2: Mastering Containerization and Virtualization

Explore the transformative power of containerization and virtualization technologies:

- **Containerization with Podman:** Dive into the world of container management with Podman, a lightweight and efficient tool for creating, managing, and inspecting containers.

- **Virtualization with KVM:** Harness the power of Kernel-based Virtual Machine (KVM) for blazing-fast virtualization performance and seamless resource sharing.
- **Integrated Container and Virtualization Management:** Experience seamless management of both containers and virtual machines using the Cockpit web interface.

Chapter 3: Unlocking Cloud Integration

Discover the seamless integration with cloud computing platforms:

- **AWS Integration:** Forge a bridge between your on-premises infrastructure and the Our Book Library Web Services (AWS) cloud platform.
- **Azure Integration:** Establish a robust connection to Microsoft Azure, leveraging cloud services for enhanced agility and scalability.
- **Google Cloud Integration:** Tap into the vast resources of Google Cloud Platform (GCP), expanding your infrastructure into the cloud domain.

Chapter 4: Enhancing Storage and Performance

Optimize storage and performance for mission-critical applications:

- **Flexible File Systems:** Choose from a wide array of file systems, including XFS, ext4, and Btrfs, tailored to specific performance and reliability requirements.
- **NVMe Support:** Accelerate storage performance with support for Non-Volatile Memory Express (NVMe) drives, unlocking blazing-fast data

access.

- **Hardware Acceleration:** Leverage the power of hardware acceleration for cryptography, compression, and networking, boosting system performance and reducing latency.

Chapter 5: Enhancing Security and Compliance

Bolster your defenses and ensure regulatory compliance:

- **Cryptographic Enhancements:** Protect sensitive data with advanced cryptographic algorithms and secure key management.
- **Container Security:** Safeguard containerized applications with SELinux profiles and runtime security policies.
- **Compliance Auditing:** Ensure compliance with industry regulations using OpenSCAP and CIRT for comprehensive security assessments and vulnerability management.

Chapter 6: Practical Exercises

Put your newfound knowledge into practice with hands-on exercises:

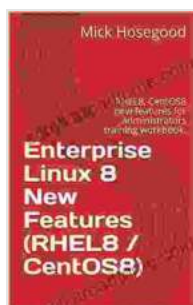
- **Installing and Configuring RHEL/CentOS 8:** Guide you step-by-step through the installation and initial configuration of RHEL/CentOS 8.
- **Managing Users and Groups:** Learn how to create, modify, and manage users and groups effectively.
- **Package Management with DNF:** Install, update, and remove packages efficiently using DNF's powerful features.

- **Firewall Configuration:** Configure the firewall to control network access and protect your system.
- **Creating and Managing Containers with Podman:** Build, deploy, and manage containers using Podman's user-friendly interface.

This training workbook empowers you with the knowledge and skills to harness the full potential of Red Hat Enterprise Linux 8 and CentOS 8. Navigate the enhancements seamlessly, embrace containerization and virtualization, integrate with cloud platforms, optimize storage and performance, enhance security and compliance, and master practical exercises to solidify your understanding.

As you progress through this comprehensive guide, you will gain a profound grasp of the transformative features that make RHEL 8 and CentOS 8 the operating systems of choice for modern enterprise environments.

Free Download your copy of "RHEL 8 Centos 8 New Features For Administrators Training Workbook" today and elevate your system administration prowess to new heights!



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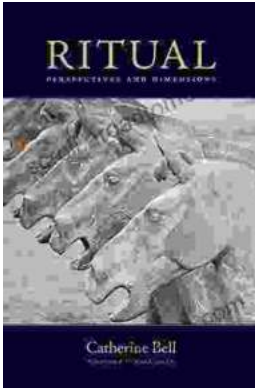
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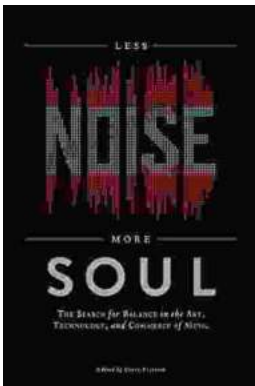
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