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Red Hat Open Shift Enterprise Administration

Minjie Lin

Red Hat Open Shift Enterprise Administration:

   Introducing IBM i Modernization Engine for Lifecycle Integration - Merlin Henry Vo,Tim Simon,Marcelo Avalos Del Carpio,Rohit Chauhan,Nicolae Chirea,Ravisankar Pandian,Anil Patil,Marius le Roux,IBM Redbooks,2025-08-07 As part of the IBM i modernization initiative IBM i Merlin Modernization Engine for Life Cycle Integration offers a fully integrated and supported suite of tools from IBM MERLIN enables seamless integration into CI CD pipelines and provides powerful code modernization capabilities including fixed to free RPG conversion native Git based source control and application impact analysis empowering developers with modern tools at their fingertips This IBM Redbook serves as a comprehensive guide to Merlin IBM s next generation development and DevOps platform for IBM i It details how Merlin leverages modern technologies such as Git Jenkins and a browser based Visual Studio Code IDE all within a containerized OpenShift environment These integrations support source control automated build and deployment pipelines and streamlined modernization of legacy RPG applications The book thoroughly explores Merlin s architecture installation process and strategies for migrating from traditional workflows to Git based DevOps It provides practical guidance for both users and administrators along with real world use cases that demonstrate improvements in developer productivity collaboration and application modernization Additionally it highlights Merlin s integration with ARCAD tools for full lifecycle management and its support for both cloud and hybrid environments enabling organizations to adopt agile scalable and standardized IBM i development practices Targeted at IT professionals and planners this guide is especially valuable for those integrating Merlin with tools like Jenkins Git and various IDEs via plugin support It complements IBM s official documentation and aligns with the educational resources provided by IBM GarageTM for Systems Technical Education   **IBM Power Security Catalog** Tim Simon,Felipe Bessa,Hugo Blanco,Carlo Castillo,Rohit Chauhan,Kevin Gee,Gayathri Gopalakrishnan,Samvedna Jha,Andrey Klyachkin,Andrea Longo,Ahmed Mashhour,Amela Peku,Prashant Sharma,Vivek Shukla,Dhanu Vasandani,Henry Vo,IBM Redbooks,2025-04-15 IT security is paramount in today s digital age As businesses increasingly rely on technology to operate protecting sensitive data and preventing cyberattacks is a priority Cloud adoption introduces more security risks which include data breaches and loss of access A strong IT security infrastructure safeguards customer information financial data intellectual property and overall business operations By investing in robust security measures organizations can mitigate risks maintain trust with customers and help ensure business continuity A multi layered security architecture is essential for protection Key areas to focus on include the following items Hardware level security Prevent physical tampering and help ensure data integrity Virtualization security Isolate environments and control resource access Management tool security Secure hardware and cloud resources Operating system security Continuously update for robust security Storage security Protect data at rest and in transit Networking security Prevent unauthorized access and data breaches This IBM Redbooks publication describes how the IBM Power ecosystem provides advanced security capabilities at each of these

layers IBM Power servers are designed with security as a core consideration At the hardware level advanced technology includes tamper resistant features that are built in to the processor to prevent unauthorized access and modifications secure cryptographic engines to provide strong encryption of data and Trusted Boot to help ensure that only authorized software components are loaded during system startup At the virtualization level the hypervisor which manages virtual machines VMs is designed to be secure and resistant to attacks The hypervisor isolates workloads within a single physical server which enables secure resource sharing within your infrastructure The Hardware Management Console HMC provides centralized management and control of Power servers in a secure manner The operating systems that run on IBM Power servers IBM AIX IBM i and Linux on Power offer robust security features which include user authentication access controls and encryption support Also tools such as IBM PowerSC provide a comprehensive security and compliance solution that helps manage security policies monitor threats and enforce compliance Security also requires solid management and control This book describes best practices such as conducting regular security audits keeping operating systems and applications up to date with the latest security fixes and implementing strong user authentication and authorization policies Other critical elements include the implementation of data encryption for both data at rest and in transit and strong network security processes that use firewalls intrusion detection systems IDS and other security measures By combining these hardware software and management practices IBM Power provides a robust foundation for security in your IT environment

Modernization Techniques for IBM Power Tim Simon,Henry Vo,Jordan Antonov,Marcelo Avalos Del Carpio,Ian Bellinfantie,Andre Casagrande,Carlo Castillo,Rafael Cezario,Paul Chapman,Rohit Chauhan,Bartlomiej Grabowski,Mithun H R,Hemraj Joshi,Niels Liisberg,Arnold Ness,Anil Patil,Matthew Radford,Sachin Sant,Mick Tarsel,Andy Youens,IBM Redbooks,2025-08-28 Recent global changes have impacted IT Organizations are accelerating digital transformation to support an increasingly always on world IT leaders are focused on modernizing critical processes and operations to gain a competitive advantage in this dynamic environment Application modernization updating applications to improve maintenance extension deployment and management is essential to meeting current and future needs It provides numerous business and technical benefits Modernizing existing enterprise applications enables a smoother migration to hybrid cloud offering the flexibility to run applications anywhere at any time A cloud native microservices approach maximizes the scalability and agility of the cloud Modernizing IBM Power allows new cloud native microservices to integrate with existing applications by using the platform s performance reliability and security This approach removes integration and productivity barriers enabling enhanced user experiences new applications and new business opportunities This IBM Redbooks publication provides a high level overview of modernization including key concepts and terminology to guide your modernization journey It explores the components and architectural layers of the IBM Power ecosystem demonstrating how they create an ideal platform for running mission critical applications The content is intended for business leaders architects and application

developers **Mastering CloudForms Automation** Peter McGowan,2016-08-22 Learn how to work with the Automate feature of CloudForms the powerful Red Hat cloud management platform that lets you administer your virtual infrastructure including hybrid public and private clouds This practical hands on introduction shows you how to increase your operational efficiency by automating day to day tasks that now require manual input Throughout the book author Peter McGowan provides a combination of theoretical information and practical coding examples to help you learn the Automate object model With this CloudForms feature you can create auto scalable cloud applications eliminate manual decisions and operations when provisioning virtual machines and cloud instances and manage your complete virtual machine lifecycle In six parts this book helps you Learn the objects and concepts for developing automation scripts with CloudForms Automate Customize the steps and workflows involved in provisioning virtual machines Create and use service catalogs items dialogs objects bundles and hierarchies Use CloudForm s updated workflow to retire and delete virtual machines and services Orchestrate and coordinate with external services as part of a workflow Explore distributed automation processing as well as argument passing and handling **RHCSA Red Hat Enterprise Linux 9 Certification Study Guide, Eighth Edition (Exam EX200)** Michael Jang,Alessandro Orsaria,2023-12-20 Take the latest editions of the challenging RHCSA and RHCE certification exams with confidence This comprehensive self study guide clearly explains what you need to know and gets you fully prepared for the RHCSA and RHCE certification exams Written by a pair of Linux certification experts and experienced authors this new edition has been thoroughly revised for Red Hat Enterprise Linux 8 and provides complete coverage of all exam objectives RHCSA RHCE Red Hat Enterprise Linux 8 Certification Study Guide Eighth Edition Exams EX200 EX294 is an integrated study system based on proven pedagogy Each chapter includes step by step exercises special Exam Watch and On the Job sidebars Two Minute Drills self tests and hands on lab questions The companion website contains searchable glossaries downloadable virtual machine files four complete lab based practice exams two for each exam and 100 lab based exercises with answers and explanations Features 100 lab based exercises with answers and in depth explanations Online content includes four complete lab based practice exams two for RHSCA and two for RHCE Written by a pair of Linux certification experts Machine Learning Theory and Applications Xavier Vasques,2024-01-31 Machine Learning Theory and Applications Enables readers to understand mathematical concepts behind data engineering and machine learning algorithms and apply them using open source Python libraries Machine Learning Theory and Applications delves into the realm of machine learning and deep learning exploring their practical applications by comprehending mathematical concepts and implementing them in real world scenarios using Python and renowned open source libraries This comprehensive guide covers a wide range of topics including data preparation feature engineering techniques commonly utilized machine learning algorithms like support vector machines and neural networks as well as generative AI and foundation models To facilitate the creation of machine learning pipelines a dedicated open source framework named hephAIstos has been developed exclusively

for this book Moreover the text explores the fascinating domain of quantum machine learning and offers insights on executing machine learning applications across diverse hardware technologies such as CPUs GPUs and QPUs Finally the book explains how to deploy trained models through containerized applications using Kubernetes and OpenShift as well as their integration through machine learning operations MLOps Additional topics covered in Machine Learning Theory and Applications include Current use cases of AI including making predictions recognizing images and speech performing medical diagnoses creating intelligent supply chains natural language processing and much more Classical and quantum machine learning algorithms such as quantum enhanced Support Vector Machines QSVMs QSVM multiclass classification quantum neural networks and quantum generative adversarial networks qGANs Different ways to manipulate data such as handling missing data analyzing categorical data or processing time related data Feature rescaling extraction and selection and how to put your trained models to life and production through containerized applications Machine Learning Theory and Applications is an essential resource for data scientists engineers and IT specialists and architects as well as students in computer science mathematics and bioinformatics The reader is expected to understand basic Python programming and libraries such as NumPy or Pandas and basic mathematical concepts especially linear algebra **Camel in Action** Claus Ibsen,Jonathan Anstey,2018-02-02 Summary Camel in Action Second Edition is the most complete Camel book on the market Written by core developers of Camel and the authors of the highly acclaimed first edition this book distills their experience and practical insights so that you can tackle integration tasks like a pro Forewords by James Strachan and Dr Mark Little Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Apache Camel is a Java framework that implements enterprise integration patterns EIPs and comes with over 200 adapters to third party systems A concise DSL lets you build integration logic into your app with just a few lines of Java or XML By using Camel you benefit from the testing and experience of a large and vibrant open source community About the Book Camel in Action Second Edition is the definitive guide to the Camel framework It starts with core concepts like sending receiving routing and transforming data It then goes in depth on many topics such as how to develop debug test deal with errors secure scale cluster deploy and monitor your Camel applications The book also discusses how to run Camel with microservices reactive systems containers and in the cloud What s Inside Coverage of all relevant EIPs Camel microservices with Spring Boot Camel on Docker and Kubernetes Error handling testing security clustering monitoring and deployment Hundreds of examples in Java and XML About the Reader Readers should be familiar with Java This book is accessible to beginners and invaluable to experts About the Author Claus Ibsen is a senior principal engineer working for Red Hat specializing in cloud and integration He has worked on Apache Camel for the last nine years where he heads the project Claus lives in Denmark Jonathan Anstey is an engineering manager at Red Hat and a core Camel contributor He lives in Newfoundland Canada Table of Contents Part 1 First steps Meeting Camel Routing with Camel Part 2 Core Camel

Transforming data with Camel Using beans with Camel Enterprise integration patterns Using components Part 3 Developing and testing Microservices Developing Camel projects Testing RESTful web services Part 4 Going further with Camel Error handling Transactions and idempotency Parallel processing Securing Camel Part 5 Running and managing Camel Running and deploying Camel Management and monitoring Part 6 Out in the wild Clustering Microservices with Docker and Kubernetes Camel tooling Bonus online chapters Available at https www manning com books camel in action second edition and in electronic versions of this book Reactive Camel Camel and the IoT by Henryk Konsek **Red Hat Enterprise Linux 8 Administration** Miguel Pérez Colino,Pablo Iranzo Gómez,Scott McCarty,2021-11-11 Develop the skills to manage and administer Red Hat Enterprise Linux and get ready to earn the RHCSA certification Key Features Learn the most common administration and security tasks and manage enterprise Linux infrastructures efficiently Assess your knowledge using self assessment questions based on real world examples Understand how to apply the concepts of core systems administration in the real world Book DescriptionWhether in infrastructure or development as a DevOps or site reliability engineer Linux skills are now more relevant than ever for any IT job forming the foundation of understanding the most basic layer of your architecture With Red Hat Enterprise Linux RHEL becoming the most popular choice for enterprises worldwide achieving the Red Hat Certified System Administrator RHCSA certification will validate your Linux skills to install configure and troubleshoot applications and services on RHEL systems Complete with easy to follow tutorial style content self assessment questions tips best practices and practical exercises with detailed solutions this book covers essential RHEL commands user and group management software management networking fundamentals and much more You ll start by learning how to create an RHEL 8 virtual machine and get to grips with essential Linux commands You ll then understand how to manage users and groups on an RHEL 8 system install software packages and configure your network interfaces and firewall As you advance the book will help you explore disk partitioning LVM configuration Stratis volumes disk compression with VDO and container management with Podman Buildah and Skopeo By the end of this book you ll have covered everything included in the RHCSA EX200 certification and be able to use this book as a handy on the job desktop reference guide This book and its contents are solely the work of Miguel P rez Colino Pablo Iranzo G mez and Scott McCarty The content does not reflect the views of their employer Red Hat Inc This work has no connection to Red Hat Inc and is not endorsed or supported by Red Hat Inc What you will learn Deploy RHEL 8 in different footprints from bare metal and virtualized to the cloud Manage users and software on local and remote systems at scale Discover how to secure a system with SELinux OpenSCAP and firewalld Gain an overview of storage components with LVM Stratis and VDO Master remote administration with passwordless SSH and tunnels Monitor your systems for resource usage and take actions to fix issues Understand the boot process performance optimizations and containers Who this book is for This book is for IT professionals or students who want to start a career in Linux administration and anyone who wants to take the RHCSA 8 certification exam Basic knowledge of Linux and familiarity

with the Linux command line is necessary **A Practical Guide to Fedora and Red Hat Enterprise Linux** Mark G. Sobell,2013-12-26 I have found this book to be a very useful classroom text as well as a great Linux resource It teaches Linux using a ground up approach that gives students the chance to progress with their skills and grow into the Linux world I have often pointed to this book when asked to recommend a solid Linux reference Eric Hartwell Chair School of Information Technology ITT Technical Institute Master All the Techniques You Need to Succeed with FedoraTM or Red Hat Enterprise Linux The 1 Fedora and RHEL resource a tutorial AND on the job reference Master Linux administration and security using the command line GUI tools Python systemd and firewalld Set up key Internet servers step by step including Samba Apache MariaDB MySQL sendmail OpenSSH DNS LDAP and more Brand new chapter on Virtual Machines and Cloud Computing In this comprehensive guide one of the world s leading Linux experts brings together all the knowledge and real world insights you need to master and succeed with today s versions of Fedora or Red Hat Enterprise Linux Best selling author Mark Sobell explains Linux clearly and effectively focusing on skills you ll actually need as a user programmer or administrator Sobell assumes no prior Linux knowledge He starts at the beginning and walks you through every topic and task that matters using easy to understand examples Step by step you ll learn how to install and configure Linux from the accompanying DVD navigate its graphical user interface provide file printer sharing configure network servers secure Linux desktops and networks work with the command line administer Linux efficiently and automate administration using Python and bash Mark Sobell has taught hundreds of thousands of Linux and UNIX professionals He knows every Linux nook and cranny and he never forgets what it s like to be new to Linux Whatever you want to do with Linux now or in the future you ll find it in this book Compared with other Linux books A Practical Guide to FedoraTMand Red Hat Enterprise Linux Seventh Edition delivers Complete up to the minute coverage of Fedora 19 and RHEL 7 beta New programming chapters that cover Python and MariaDB MySQL plus a new tutorial on using GnuPG to encrypt communications Information on state of the art security SELinux ACLs firewalld firewall config and firewall cmd iptables system config firewall GnuPG and OpenSSH New chapter on VMs virtual machines and cloud computing including VMware QEMU KVM virt manager virsh GNOME Boxes and AWS Amazon Web Services Expanded command line coverage including a new chapter that details 32 important utilities Practical information on Internet server configuration including Apache sendmail NFSv4 DNS BIND the new LDAP Dynamic Server and IPv6 Complete meat and potatoes information on system network administration now including GRUB 2 the XFS filesystem the new Anaconda Installer the systemd init daemon firewalld and NetworkManager Detailed instructions on keeping Linux systems up to date finding software packages and working with repositories using yum and rpm Full coverage of the LPI Linux Essentials exam objectives plus extensive coverage of the CompTIA Linux exam objectives Appendix E provides a map from objectives to pages in the book New coverage of find sort xz compression free xargs and the nano editor And much more including a 500 term glossary and comprehensive indexes *Red Hat Enterprise Linux 9 Administration*

Pablo Iranzo Gómez,Pedro Ibañez Requena,Miguel Pérez Colino,Scott McCarty,2022-11-18 Develop the skills required to administer your RHEL environment on premises and in the cloud while preparing for the RHCSA exam Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Become a pro at system administration from installation to container management Secure and harden your Linux environment using SSH SELinux firewall and system permissions Gain confidence to pass the RHCSA exam with the help of practice tests Book DescriptionWith Red Hat Enterprise Linux 9 becoming the standard for enterprise Linux used from data centers to the cloud Linux administration skills are in high demand With this book you ll learn how to deploy access tweak and improve enterprise services on any system on any cloud running Red Hat Enterprise Linux 9 Throughout the book you ll get to grips with essential tasks such as configuring and maintaining systems including software installation updates and core services You ll also understand how to configure the local storage using partitions and logical volumes as well as assign and deduplicate storage You ll learn how to deploy systems while also making them secure and reliable This book provides a base for users who plan to become full time Linux system administrators by presenting key command line concepts and enterprise level tools along with essential tools for handling files directories command line environments and documentation for creating simple shell scripts or running commands With the help of command line examples and practical tips you ll learn by doing and save yourself a lot of time By the end of the book you ll have gained the confidence to manage the filesystem users storage network connectivity security and software in RHEL 9 systems on any footprint What you will learn Become well versed with the fundamentals of RHEL9 from system deployment to user management Secure a system by using SELinux policies and configuring firewall rules Understand LVM to manage volumes and maintain VDO deduplication Manage a system remotely using SSH and public key authentication Get the hang of the boot process and kernel tunable to adjust your systems Automate simple tasks using scripts or Ansible Playbooks Who this book is for This book is for Red Hat Enterprise Linux system administrators and Linux system administrators It s also a good resource for any IT professional who wants to learn system administration RHCSA certification candidates will find this book useful in their preparation for the certification exam **Red Hat OpenShift V4.3 on IBM Power Systems Reference Guide** Dino Quintero,Daniel Casali,Alain Fisher,Federico Fros,Miguel Gomez Gonzalez,Felix Gonzalez,Paulo Sergio Lemes Queiroz,Sudipto Pal,Bogdan Savu,Richard Wale,IBM Redbooks,2020-09-10 This IBM Redpaper publication describes how to deploy Red Hat OpenShift V4 3 on IBM Power Systems servers This book presents reference architectures for deployment initial sizing guidelines for server storage and IBM Cloud Paks Moreover this publication delivers information about initial supported Power System configurations for Red Hat OpenShift V4 3 deployment bare metal IBM PowerVM LE LPARs and others This book serves as a guide for how to deploy Red Hat OpenShift V4 3 and provide start guidelines and recommended practices for implementing it on Power Systems and completing it with the supported IBM Cloud Paks The publication addresses topics for developers IT architects IT specialists sellers and anyone

who wants to implement a Red Hat OpenShift V4 3 and IBM Cloud Paks on IBM Power Systems This book also provides technical content to transfer how to skills to the support teams and solution guidance to the sales team This book compliments the documentation that is available at IBM Knowledge Center and also aligns with the educational offerings that are provided by the IBM Systems Technical Education SSE **OpenShift Security Guide** Gabriel Alford, 1st,Keith Basil,Bruce Benson,Erica von Buelow,François Duthilleul,Christopher Grimm,Frédéric Herrmann,Ben Howard,Jakub Hrozek,Nathan Kinder,Khary Mendez,Pierre-André Morey,Christopher Negus,Kirsten Newcomer,Kevin O'Donell,Juan Antonio Osorio Robles,Bryan Parry,Matt Rogers,Ava Shulman,Shawn Wells,2020-05 The OpenShift Security Guide was created to help those in cloud infrastructure and security engineering roles address the many security challenges facing them Cloud security is complex and Red Hat understands that users need more than just guidance in technical system configurations The authors have identified approaches that aid in the triaging of security trade offs and risk policy enforcement reporting and the validation of system configuration Cloud infrastructure and security engineering roles are central to establishing and preserving security postures It is the book s intent to support these roles by providing the proper mixture of conceptual organizational and technical guidance thereby increasing the security vigilance and effectiveness of those with such responsibilities For the cloud security auditor whether in an internal role or as a third party assessment organization this book intends to provide the technical guidance needed to verify validate and enforce security controls For technology professionals charged with security policy management this book should offer insight into related organizational policy functional testing and data stewardship tasks while augmenting knowledge in these areas While the book speaks to OpenShift from a holistic infrastructure perspective it does cover areas that application developers and reliability engineers may find valuable With the ever evolving trends in container based microservices baking security into the continuous integration and delivery pipelines is a fundamental requirement Build and runtime security features are discussed and advantages of a secure container baseline image are covered as well Readers are not expected to have expert level knowledge of core OpenShift concepts However basic knowledge of Linux Containers and Kubernetes from a user or administrative perspective will certainly be useful especially when reading through some of the technical implementation described in the chapters **Rapid Modernization of Java Applications: Practical Business and Technical Solutions for Upgrading Your Enterprise Portfolio** G. Venkat,2017-10-06 Implement a High Performance Enterprise Java Application Modernization Strategy Learn cutting edge techniques and processes to systematically and strategically modernize legacy Java applications with predictability consistency and confidence This Oracle Press guide offers an innovative blueprint that empowers corporate management teams to better understand necessary technical requirements and enables Java architects and developers to better align with agile business needs Rapid Modernization of Java Applications Practical Business and Technical Solutions for Upgrading Your Enterprise Portfolio contains modernization

approaches that offer end to end Java application portfolio visibility so that application modernization projects can stay on schedule and within budget   *OpenShift in Action* John Osborne,Jamie Duncan,2018-05-04 Summary OpenShift in Action is a full reference to Red Hat OpenShift that breaks down this robust container platform so you can use it day to day Combining Docker and Kubernetes OpenShift is a powerful platform for cluster management scaling and upgrading your enterprise apps It doesn t matter why you use OpenShift by the end of this book you ll be able to handle every aspect of it inside and out Foreword by Jim Whitehurst Red Hat Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Containers let you package everything into one neat place and with Red Hat OpenShift you can build deploy and run those packages all in one place Combining Docker and Kubernetes OpenShift is a powerful platform for cluster management scaling and upgrading your enterprise apps About the Book OpenShift in Action is a full reference to Red Hat OpenShift that breaks down this robust container platform so you can use it day to day Starting with how to deploy and run your first application you ll go deep into OpenShift You ll discover crystal clear explanations of namespaces cgroups and SELinux learn to prepare a cluster and even tackle advanced details like software defined networks and security with real world examples you can take to your own work It doesn t matter why you use OpenShift by the end of this book you ll be able to handle every aspect of it inside and out What s Inside Written by lead OpenShift architects Rock solid fundamentals of Docker and Kubernetes Keep mission critical applications up and running Manage persistent storage About the Reader For DevOps engineers and administrators working in a Linux based distributed environment About the Authors Jamie Duncan is a cloud solutions architect for Red Hat focusing on large scale OpenShift deployments John Osborne is a principal OpenShift architect for Red Hat Table of Contents PART 1 FUNDAMENTALS Getting to know OpenShift Getting started Containers are Linux PART 2 CLOUD NATIVE APPLICATIONS Working with services Autoscaling with metrics Continuous integration and continuous deployment PART 3 STATEFUL APPLICATIONS Creating and managing persistent storage Stateful applications PART 4 OPERATIONS AND SECURITY Authentication and resource access Networking Security   Red Hat Enterprise Linux 6 Administration Sander van Vugt,2013-01-23 The definitive guide to administering a Red Hat Enterprise Linux 6 network Linux professionals who need a go to guide on version 6 of Red Hat Enterprise Linux RHEL will find what they need in this comprehensive Sybex book It covers RHEL administration in detail including how to set up and manage web and mail services use RHEL in enterprise environments secure it optimize storage configure for virtualization and high availability and much more It also provides a great study aid for those preparing for either the RHCSA or RHCE certification exam Red Hat is the Linux market leader and Red Hat administrators are in demand This Sybex guide is a comprehensive resource on Red Hat Enterprise Linux administration and useful for those preparing for one of the Red Hat certification exams Covers setting up and managing web and mail services using RHEL in enterprise environments securing RHEL and optimizing storage to fit your environment Explores advanced RHEL configurations

including virtualization and high availability Red Hat Enterprise Linux 6 Administration is the guide Linux professionals and Red Hat administrators need to stay current on the newest version *Software Defined Data Center with Red Hat Cloud and Open Source IT Operations Management* Dino Quintero,Shubham Dhar,Luis Cruz Huertas,Doyoung Im,Afzal Khan,Donthy Venkatesh Krishna Chaitanya,Ramesh Kumar Kumar Singh,Manas Mohsin Kunnathodika,Guru Prasad,Shashi Ranjan,Vishal Vinayak Redij,Baldeep Singh,Saurabh Srivastava,Sukrit Thareja,Sreekrishnan Venkiteswaran,Ajit Yadav,IBM Redbooks,2020-11-04 This IBM Redbooks publication delivers a Site Reliability Engineering SRE solution for cloud workloads that uses Red Hat OpenStack for Infrastructure as a Service IaaS Red Hat OpenShift for Platform as a Service PaaS and IT operations management that uses open source tools Today customers are no longer living in a world of licensed software Curiosity increased the demand for investigating the Open Source world for Community Open Source and Enterprise grade applications IBM as one of the contributors to the Open Source community is interested in helping the software be maintained and supported Having companies such as IBM support the evolution of Open Source software helps to keep the Open Source community striving for enterprise grade open source solutions Lately companies are working on deciphering how to take advantage of Enterprise and Community Open Source to implement in their enterprises The business case for open source software is no longer a mystery and no surprise that most of the new positions in IT enterprises are related to open source projects The ability of a large enterprise to manage this sort of implementations is to engage in a hypertrophied cooperation where the ability to not only cooperate with teams and people outside your organization but also to find new ways of working together and devise new ways to improve the software and its code A goal for this publication is to help the client s journey into the open source space and implement a private Cloud Container based architecture with the ability to manage the entire IT Service Management processes from the open source framework This publication describes the architecture and implementation details of the solution Although not every piece of this solution is documented here this book does provide instructions for what was achieved incorporating open source technologies Moreover with this publication the team shares their collaboration experiences working in a team of technologists open source developers Red Hat and the open source community This publication is for designers developers managers and anyone who is considering starting a Cloud open source project or users who started that journey This book also can be a manual to guide the implementation of a technical viable architecture and help those enterprises participate in an open source project but have not done so before The reader must be familiar with principles in programming and basic software engineering concepts such as source code compilers and patches **Creating Red Hat OpenShift Multiple Architecture Clusters with IBM Power** Tim Simon,Sambasiva Andaluri,Ivaylo Bozhinov,Carlos Jorge Cabanas Aguero,Carlo Castillo,Paul Chapman,Mandar Dixit,Pete Dragovich,Gayathri Gopalakrishnan,Vikash Gupta,Munshi Hafizul Haque,Youssef Largou,Mikhail Nikitin,Gabriel Padilla,Vinay Rajagopal,Borislav Ivanov Stoymirski,Sundaragopal Venkatraman,Henry Vo,IBM Redbooks,2025-08-21 The

release of Red Hat OpenShift 4 14 brought the OpenShift Container Platform Multiple Architecture Compute feature to IBM Power Multi Arch Compute provides a single heterogeneous cluster enabling fit for purpose computing so clients can align tasks and applications to CPU strengths and software availability rather than one architecture This support was expanded in Red Hat OpenShift 4 15 which enabled a Red Hat OpenShift cluster to support an IBM Power control plane and add x86 architecture worker nodes Multi Arch Compute for OpenShift Container Platform lets you use a pair of compute architectures such as ppc64le and amd64 within a single cluster This exciting feature opens new possibilities for versatility and optimization for composite solutions that span multiple architectures This Redbook provides a high level overview of Red Hat OpenShift which can be run on many different architectures We then present how IBM Power servers provide an extremely resilient and secure platform and how they can be an excellent platform for your cloud implementation using OpenShift We then describe the benefits of using a multi architecture cluster and provide implementation guidelines and advice to assist the reader in implementing a multi architecture cluster using IBM Power control plane nodes and x86 or AMD based worker nodes This Redbook is suitable for many levels including managers that need to understand how OpenShift on Power can help meet their business needs as well as supporting technical staff that are responsible for implementing those clusters

Red Hat Enterprise Linux 9 for SysAdmins Jerome Gotangco,Luca Berton,2025-02-21 DESCRIPTION Red Hat Enterprise Linux RHEL is the de facto standard for Linux in the enterprise and the latest version RHEL 9 offers the best of open source software to date with the stability and security provided by the biggest name in open source Red Hat The book begins with an introduction to RHEL 9 s features architecture and its role in the open source ecosystem including comparisons with Fedora and CentOS It then delves into practical aspects of RHEL 9 setup covering installation methods cloud deployments on AWS Azure and GCP and subscription management The book further explores application deployment and management including software repositories the GNOME desktop environment infrastructure services virtualization containerization with Podman networking file storage and DevOps pipelines Finally it addresses critical security and monitoring aspects detailing security hardening techniques capacity planning log analysis system auditing and an introduction to AI ML frameworks on RHEL 9 Whether you are learning the ropes on Linux had some experience on running a previous RHEL system or even have managed Linux clusters Red Hat Enterprise Linux 9 for SysAdmins is a handy reference that would boost your knowledge and experience with the latest version of RHEL 9 KEY FEATURES Learn the essentials of setting up and managing a RHEL 9 server environment for your computing environment Learn DevOps pipelines and automation on RHEL 9 platform Understand RHEL 9 security audits and performance tuning WHAT YOU WILL LEARN Master fundamental and advanced RHEL 9 administration including system environment configuration desktop customization and automated task management Implement RHEL 9 security hardening with secure access controls and subscription management ensuring comprehensive enterprise protection Configure enterprise infrastructure with database applications and virtual machines optimized for high

performance workload delivery Develop containerized applications using Podman integrating RHEL and AI capabilities for automated deployment and orchestration Build development platforms in RHEL 9 with DevOps practices and automated workflows for efficient application lifecycle management WHO THIS BOOK IS FOR This book is written for IT professionals with beginner or intermediate system administration experience and is tasked to install configure and manage a RHEL 9 system Readers are expected to have some basic understanding of operating systems and networking concepts TABLE OF CONTENTS 1 Introducing Red Hat Enterprise Linux 9 2 Setting Up RHEL 9 3 Establish RHEL 9 on Cloud 4 Miscellaneous Configurations of RHEL 9 5 Managing RHEL 9 Subscriptions 6 Configuring Software Repositories and RHEL 9 Updates 7 Managing RHEL 9 with GNOME Desktop 8 Managing Infrastructure and Databases 9 Administration of Virtualization Workloads 10 Create Manage and Monitor Containers 11 Working Around Networks Files and Storage Services 12 Source Codes DevOps Pipelines and Application Development 13 Administration of Clusters and Servers 14 Security Hardening of RHEL 15 Capacity Planning Log Analysis and System Audits 16 Artificial Intelligence and Machine Learning **IBM Storage for Red Hat OpenShift Blueprint** IBM,IBM Redbooks,2020-12-18 This IBM Blueprint is intended to facilitate the deployment of IBM Storage for Red Hat OpenShift Container Platform by using detailed hardware specifications to build a system It describes the associated parameters for configuring persistent storage within a Red Hat OpenShift Container Platform environment To complete the tasks you must understand Red Hat OpenShift IBM Storage the IBM block storage Container Storage Interface CSI driver and the IBM Spectrum Scale CSI driver The information in this document is distributed on an as is basis without any warranty that is either expressed or implied Support assistance for the use of this material is limited to situations where IBM Storwize or IBM FlashSystem storage devices Enterprise Storage Server and IBM Spectrum Scale are supported and entitled and where the issues are not specific to a blueprint implementation IBM Storage Suite for IBM Cloud Paks is an offering bundle that includes software defined storage from IBM and Red Hat Use this document for more information about how to deploy IBM Storage product licenses that are obtained through Storage Suite for Cloud Paks IBM Spectrum Virtualize and IBM Spectrum Scale Red Hat Enterprise Linux 8: Desktops and Administration Richard Petersen,2019-12-10 This book examines Red Hat Enterprise Linux 8 for the desktop user and administrator including RHEL 8 1 Though administrative tools are covered the emphasis is on what a user would need to know to perform tasks The focus here is on what users face when using Red Hat Enterprise Linux 8 covering topics like applications the GNOME desktop shell commands and the administration and network tools The GNOME desktop is examined in detail including configuration options Administration topics are also covered including user management software management repositories services systemd system monitoring shell configuration encryption network connections shared resources authentication SELinux firewalls shell configuration backups and printers The book is organized into two parts desktops and administration

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