

Kubernetes With Terraform Ansible And Openshift On

OpenShift Deep Dive Nova Trex 2025-08-06 OpenShift Deep Dive: Automation, CI/CD, and Multi-Tenancy provides an authoritative exploration of the OpenShift platform, establishing a strong architectural foundation before advancing into specialized operational topics. The book dissects the integral relationship between Kubernetes and OpenShift, highlighting key extensions such as advanced networking, security frameworks, storage management, and operator-driven lifecycle automation. With a thorough examination of control plane internals, service mesh integration, and robust authentication and authorization systems, readers gain a holistic understanding of how OpenShift elevates enterprise Kubernetes environments. The journey continues with a focused deep dive into infrastructure automation, multi-tenancy, and workload orchestration. Readers are guided through best practices in deploying and managing OpenShift clusters using Terraform, Ansible, the OpenShift Machine API, and GitOps methodologies for configuration and policy management. Beyond the foundational elements, the book addresses the complexities of resource scheduling, workload isolation, quotas, and network segmentation, offering actionable strategies for ensuring performance, resilience, and fair allocation in multi-tenant environments. A significant portion of the book is dedicated to building and securing continuous integration and delivery (CI/CD) pipelines, leveraging OpenShift-native tools like Tekton, as well as industry-standard systems such as Jenkins and GitLab CI. Detailed guidance on GitOps workflows, secrets management, progressive delivery, software supply chain security, observability, and disaster recovery empowers practitioners to scale their operations with confidence and efficiency. Whether you're automating deployments, optimizing for high availability, or planning for multi-cluster growth, this comprehensive volume delivers the expertise needed for modern, enterprise-grade OpenShift operations.

Cloud Without Compromise Paul Zikopoulos 2021-07-30 Many companies claim to have "gone to the cloud," yet returns from their efforts are meager or worse. Why? Because they've defined cloud as a destination, not a capability. Using cloud as a single-vendor, one-stop destination is fiction; in practice, today's organizations use a mosaic of capabilities across several vendors. Your cloud strategy needs to follow a hybrid multicloud model, one that delivers cloud's value at destinations you choose. This practical guide provides business leaders and C-level executives with guidance and insights across a wide range of cloud-related topics, such as distributed cloud, microservices, and other open source solutions for strengthening operations. You'll apply in-the-field best practices and lessons learned as you define your hybrid cloud strategy and drive your company's transformation strategy. Learn cloud fundamentals and patterns, including basic concepts and history Get a framework for cloud acumen phases to value-plot your cloud future Know which questions to ask a cloud provider before you sign Discover potential pitfalls for everything from the true cost of a cloud solution to adopting open source the right way

Creating Red Hat OpenShift Multiple Architecture Clusters with IBM Power Tim Simon 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.

Advanced Cloud Automation Frameworks and API Strategies Practical Solutions for Dynamic Cloud Ecosystems Anant Kumar Talupuri Aswini Devi 2025-02-05 In today's fast-paced, innovation-driven world, the cloud has become the foundation for digital transformation. It powers everything from enterprise applications to global e-commerce and cutting-edge AI systems. But as organizations scale and diversify their cloud infrastructures, managing these dynamic ecosystems becomes increasingly complex. Automation and APIs have emerged as indispensable tools for simplifying operations, optimizing resources, and enabling agility. Advanced Cloud Automation Frameworks and API Strategies is a guide for architects, developers, and cloud professionals who are ready to take their skills to the next level. This book goes beyond the basics to explore advanced techniques for designing, implementing, and managing automated cloud environments. It provides practical solutions that address the challenges of modern cloud ecosystems, from multi-cloud orchestration to API-first strategies that drive innovation and integration. In these pages, you'll learn how to build robust automation frameworks tailored to diverse use cases and environments. You'll explore best practices for creating scalable, secure APIs and discover strategies for seamless integration across platforms. Each chapter is packed with actionable insights, real-world examples, and detailed walkthroughs designed to help you solve complex challenges with confidence. The emphasis throughout this book is on practicality and adaptability. Cloud technologies evolve rapidly, and the ability to design flexible, future-ready solutions is a critical skill for any cloud professional. This book not only equips you with technical knowledge but also emphasizes the principles of good design, efficient workflows, and sustainable architectures. Whether you're building serverless applications, orchestrating containerized workloads, or creating APIs that power enterprise systems, this book provides the guidance you need to excel. It's for those who want to lead in the cloud space—empowering organizations to innovate faster, reduce operational overhead, and create resilient digital ecosystems. The future of cloud computing belongs to those who can automate intelligently, integrate seamlessly, and innovate boldly. My hope is that this book helps you achieve these goals, giving you the tools and insights needed to thrive in the ever-changing landscape of cloud technologies. Let's dive into the world of advanced cloud automation frameworks and API strategies, where innovation meets opportunity. Authors

OpenShift Platforms and Operations Richard Johnson 2025-05-30 "OpenShift Platforms and Operations" "OpenShift Platforms and Operations" is a definitive guide for architects, operators, and DevOps professionals seeking to master the deployment and management of OpenShift in enterprise environments. Addressing every stage of the platform lifecycle, this comprehensive resource delves deeply into Kubernetes foundations, OpenShift's unique enhancements, and the architectural principles that distinguish it from upstream Kubernetes. Readers are introduced to the technical underpinnings of the control plane, node integration, networking models, storage orchestration, and foundational security, gaining a nuanced understanding of how OpenShift delivers robust, scalable, and secure container orchestration. The book progresses through critical implementation strategies, covering both automated and manual installation approaches, best practices for hybrid and multi-cloud patterns, seamless integrations with infrastructure-as-code tooling, and advanced bootstrapping in challenging environments. Lifecycle management receives thorough treatment, with clear explanations of cluster upgrades, operator frameworks, performance optimization, secure multi-tenancy, and resilient disaster recovery. Extensive coverage of networking, service exposure, and traffic management ensures that both connectivity and security needs are met—whether accommodating complex ingress, egress, or intelligent application routing scenarios. Advanced chapters focus on platform services, workload orchestration, security, governance, and data management, providing operator-savvy solutions for persistent storage, compliance automation, cost control, and operational observability. Extensibility and innovation are central themes, highlighted through operator development, custom resource definitions, GitOps practices, and support for edge and hybrid deployments. Backed by practical insights and real-world considerations, "OpenShift Platforms

and Operations" stands as an essential, all-in-one reference for building and operating cloud-native infrastructure at scale.

Kata Containers in Practice William Smith 2025-08-19 "Kata Containers in Practice" Kata Containers in Practice offers a comprehensive, expert-driven exploration of secure container runtimes, designed for technology professionals seeking to elevate their cloud native infrastructure. Beginning with the motivations for enhanced isolation, the book demystifies the architectural backbone of Kata Containers, contrasting its robust security posture and performance with conventional runtimes. Readers are introduced to the dynamic Kata Containers ecosystem, including the open source community and the environments in which Kata excels, setting the stage for deeper technical dives. Through thoughtfully structured chapters, this guide delivers meticulous instruction on system design, deployment, integration, and sustained operation. It covers core runtime components, abstraction layers for hypervisor flexibility, and best practices for managing guest operating systems. Real-world installation walkthroughs, orchestration with Kubernetes, CRI-O, and containerd, as well as advanced topics like resource isolation, hardware attestation, and confidential computing integrations, equip practitioners to build, tune, and scale secure containerized workloads. In-depth threat modeling, compliance strategies, and supply chain security ensure coverage of modern risk landscapes in enterprise and regulated environments. Balancing practical guidance with visionary insights, the book showcases innovative deployment patterns including serverless, multi-tenant, and edge computing scenarios, anchored by case studies from sensitive and high-throughput sectors. Readers are empowered to troubleshoot, maintain, and extend Kata Containers environments, foster community collaboration, and contribute to upstream progress. With its holistic approach and actionable techniques, Kata Containers in Practice is an indispensable reference for architects, DevOps engineers, cloud operators, and anyone committed to advancing secure, high-performance container computing.

Streamlining Infrastructure: Mastering Terraform and Ansible

Peter Jones 2025-01-11 Embark on a transformative journey into the world of automation with "Streamlining Infrastructure: Mastering Terraform and Ansible," your comprehensive guide to these powerful tools. Designed for both newcomers and seasoned professionals, this book delves deeply into the principles of Infrastructure as Code (IaC), equipping you with the knowledge to efficiently manage and streamline your infrastructure processes. Discover how to leverage Terraform for provisioning and managing infrastructure across multiple cloud providers with precision and ease. Complement this with Ansible's capabilities for configuration management, ensuring your environments are deployed and maintained in their desired state. Together, Terraform and Ansible provide a robust framework for automating your entire infrastructure lifecycle, from initial provisioning to ongoing management. With meticulously structured content balancing theoretical concepts and practical applications, you'll explore everything from basic installations and core concepts to advanced features and best practices for integrating Terraform and Ansible into a cohesive workflow. The book also covers critical aspects such as security, monitoring, and maintenance, ensuring you're well-equipped to handle the challenges of modern IT environments. Whether you aim to enhance your current skill set, embark on a new career path, or streamline your organization's operations, "Streamlining Infrastructure: Mastering Terraform and Ansible" offers the insights and guidance necessary to achieve efficient, automated, and scalable infrastructure. Join the ranks of proficient professionals who have mastered the art of automation with Terraform and Ansible, and unlock the full potential of your IT infrastructure.

Ansible For Containers and Kubernetes By Examples

Luca Berton Save time managing Containers, Kubernetes and OpenShift with Ansible automation technology with some real-life examples. Every successful IT department needs automation nowadays for bare metal servers, virtual machines, cloud, containers, and edge computing. Automate your IT journey with Ansible automation technology. I'm going to teach you example by example how to accomplish the most common Containers, Kubernetes, OpenShift and System Administrator tasks. You are going to start with the installation of Ansible in RedHat Enterprise Linux, Ubuntu, and macOS using the most command package manager and archives. Each of the 10+ lessons summarizes a module: from the most important parameter to some demo of code and real-life usage. Each code is battle proved in the real life. Console interaction and verification are included in every video. You are going to save tons of time automating the container management automating with some lines of code and these are

only some of the long lists included in the course. Simplify your system administrator journey with Docker, podman, Kubernetes and OpenShift tools. These are technologies very requested in the market nowadays. Are you ready to automate your day with Ansible?

Mastering DevOps in Kubernetes Soumiyajit Das Chowdhury 2023-08-22 Learn how to build, deploy, use, and maintain your applications on Kubernetes KEY FEATURES ● Learn how to provision Kubernetes clusters using different cloud providers and infrastructure tools. ● Explore several advanced options to manage applications in Kubernetes. ● Get familiar with the best practices for securing applications and clusters. DESCRIPTION DevOps with Kubernetes combines two powerful technologies to bring efficiency and speed to the software development process. Kubernetes has become the de facto standard for container orchestration, while DevOps practices are rapidly becoming essential for organizations to manage their software development and delivery pipelines. By using Kubernetes and DevOps practices together, teams can streamline their deployment processes, reduce errors, and deliver software faster and more reliably. The book starts by addressing the real-time challenges and issues that DevOps practitioners face. The book then helps you become acquainted with the fundamental and advanced Kubernetes features, and develop a comprehensive understanding of the standard CNCF components that accompany Kubernetes. The book then delves deeper into the three leading managed Kubernetes services - GKE, AKS, and EKS. Additionally, the book will help to learn how to implement security measures to protect your Kubernetes deployments. The book further explores a range of monitoring tools and techniques that can be used to quickly identify and resolve issues in Kubernetes clusters. Finally, the book will help you learn how to use the Istio Service Mesh to secure communication between workloads hosted by Kubernetes. With this information, you will be able to deploy, scale, and monitor apps on Kubernetes. WHAT YOU WILL LEARN ● Learn how to manage stateful containers with Kubernetes. ● Get to know more observability and monitoring in Kubernetes. ● Package and deploy applications on Kubernetes using Helm. ● Learn how to use Scaffold and Flux for CI/CD. ● Learn how microservices can be managed and deployed using the Istio service mesh. WHO THIS BOOK IS FOR The book is a must-read for DevOps teams using Kubernetes to deploy container workloads. It offers valuable insights into the best practices required to make their application container-agnostic and streamline their workflows. TABLE OF CONTENTS 1. DevOps for Kubernetes 2. Container Management with Docker 3. Speeding up with Standard Kubernetes Operations 4. Stateful Workloads in Kubernetes 5. Amazon Elastic Kubernetes Service 6. Azure Kubernetes Service 7. Google Kubernetes Engine 8. Kubernetes Administrator 9. Kubernetes Security 10. Monitoring in Kubernetes 11. Packaging and Deploying in Kubernetes 12. Continuous Development and Continuous Deployment 13. Managing Microservices Using Istio Service Mesh

Ansible for Real-Life Automation Gineesh Madapparambath 2022-09-30 Learn how to automate and manage your IT infrastructure and applications using Ansible Key Features Develop Ansible automation use cases by automating day-to-day IT and application operations Use Ansible to automate private and public cloud, application containers, and container platforms Improve your DevOps workflow with Ansible Book Description Get ready to leverage the power of Ansible's wide applicability to automate and manage IT infrastructure with Ansible for Real-Life Automation. This book will guide you in setting up and managing the free and open source automation tool and remote-managed nodes in the production and dev/staging environments. Starting with its installation and deployment, you'll learn automation using simple use cases in your workplace. You'll go beyond just Linux machines to use Ansible to automate Microsoft Windows machines, network devices, and private and public cloud platforms such as VMWare, AWS, and GCP. As you progress through the chapters, you'll integrate Ansible into your DevOps workflow and deal with application container management and container platforms such as Kubernetes. This Ansible book also contains a detailed introduction to Red Hat Ansible Automation Platform to help you get up to speed with Red Hat AAP and integration with CI/CD and ITSM. What's more, you'll implement efficient automation solutions while learning best practices and methods to secure sensitive data using Ansible Vault and alternatives to automate non-supported platforms and operations using raw commands, command modules, and REST API calls. By the end of this book, you'll be proficient in identifying and developing real-life automation use cases using Ansible. What you will learn Explore real-life IT automation use cases and employ Ansible for

automationDevelop playbooks with best practices for production environmentsApproach different automation use cases with the most suitable methodsUse Ansible for infrastructure management and automate VMWare, AWS, and GCPIntegrate Ansible with Terraform, Jenkins, OpenShift, and KubernetesManage container platforms such as Kubernetes and OpenShift with AnsibleGet to know the Red Hat Ansible Automation Platform and its capabilitiesWho this book is for This book is for DevOps and systems engineers looking to adopt Ansible as their automation tool. To get started with this book, basic knowledge of Linux is necessary, along with an understanding of how tasks are done the manual way before setting out to automate them.

Next-Generation Infrastructure Engineering: A Practical Journey from Linux to Cloud-Native Systems Dr. Subodh Sachan 2026-03-08 The evolution of infrastructure engineering mirrors the evolution of technology itself—steady foundations giving way to fluid, programmable, and highly distributed systems. What once revolved around carefully managed Linux servers has transformed into a discipline that spans cloud platforms, container ecosystems, automation pipelines, and resilient, self-healing architectures. This shift is not incremental; it represents a fundamental change in how infrastructure is designed, built, and operated. *Next-Generation Infrastructure Engineering: A Practical Journey from Linux to Cloud-Native Systems* is written for those standing at this crossroads. It acknowledges the enduring importance of Linux—the principles of process management, networking, storage, and security that remain the backbone of modern systems—while guiding readers toward the cloud-native paradigms redefining the industry. The goal is not to abandon what came before, but to build upon it with intention and clarity. This book takes a practical, engineering-focused approach. It begins by reinforcing the Linux concepts that still matter in today's environments, then methodically expands into virtualization, containers, orchestration, and cloud platforms. As the journey unfolds, readers are introduced to Kubernetes, infrastructure such as code, CI/CD automation, DevOps practices, and the realities of operating across hybrid and multi-cloud landscapes. Each topic is framed not just in terms of how things work, but why they work that way in modern infrastructure. Whether you are a seasoned Linux administrator adapting to a changing industry, an infrastructure or DevOps engineer sharpening your cloud-native skills, or a learner preparing for the future of IT, this book is meant to serve as both guide and companion. The next generation of infrastructure engineers will be those who can unite the rigor of traditional systems with the flexibility and innovation of cloud-native technologies. This book is an invitation to make that transition thoughtfully—and to help shape what infrastructure engineering becomes next.

Learn OpenShift Denis Zuev 2018-07-30 This book is outdated. The new edition—fully updated to OpenShift 4—is now available. Key Features Gain hands-on experience of working with Kubernetes and Docker Learn how to deploy and manage applications in OpenShift Get a practical approach to managing applications on a cloud-based platform Explore multi-site and HA architectures of OpenShift for production Book DescriptionDocker containers transform application delivery technologies to make them faster and more reproducible, and to reduce the amount of time wasted on configuration. Managing Docker containers in the multi-node or multi-datacenter environment is a big challenge, which is why container management platforms are required. OpenShift is a new generation of container management platforms built on top of both Docker and Kubernetes. It brings additional functionality to the table, something that is lacking in Kubernetes. This new functionality significantly helps software development teams to bring software development processes to a whole new level. In this book, we'll start by explaining the container architecture, Docker, and CRI-O overviews. Then, we'll look at container orchestration and Kubernetes. We'll cover OpenShift installation, and its basic and advanced components. Moving on, we'll deep dive into concepts such as deploying application OpenShift. You'll learn how to set up an end-to-end delivery pipeline while working with applications in OpenShift as a developer or DevOps. Finally, you'll discover how to properly design OpenShift in production environments. This book gives you hands-on experience of designing, building, and operating OpenShift Origin 3.9, as well as building new applications or migrating existing applications to OpenShift. What you will learn Understand the core concepts behind containers and container orchestration tools Understand Docker, Kubernetes, and OpenShift, and their relation to CRI-O Install and work with Kubernetes and OpenShift Understand how to work with persistent storage in OpenShift Understand basic and advanced components of

OpenShift, including security and networking Manage deployment strategies and application's migration in OpenShift Understand and design OpenShift high availability Who this book is for The book is for system administrators, DevOps engineers, solutions architects, or any stakeholder who wants to understand the concept and business value of OpenShift.

Learn OpenShift Aleksey Usov 2026-01-30 Master OpenShift 4 with hands-on guidance from industry experts. Install, configure, deploy, and manage containerized applications at scale with real-world examples and best practices for enterprise production environments. Key Features Learn OpenShift 4 fundamentals and advanced concepts, including architecture, deployment, and operations Build, secure, and manage scalable containerized applications for enterprise environments Apply skills through expert-led tutorials, real-world projects, and hands-on labs for observability and more Book Description OpenShift is a powerful enterprise Kubernetes platform that simplifies the development, deployment, and management of containerized applications. Learn OpenShift is a comprehensive, hands-on guide designed for architects, DevOps engineers, SREs, and system administrators who want to take OpenShift 4 from architecture to production deployment. Drawing on the experience of seasoned architects who've worked on some of the world's largest OpenShift projects, this book covers both fundamentals and advanced scenarios rarely discussed elsewhere. You'll explore OpenShift 4 internals, understand its architecture, master cluster installation and upgrades, and gain deep insights into managing applications, configuring security, application builds, observability, and service mesh. With practical examples and real-world guidance, you'll confidently deploy OpenShift on bare metal, virtualization, and cloud environments, and learn how to extend, maintain, and operate clusters at scale. By the end of this book, you'll be able to install, secure, and operate OpenShift 4 clusters in enterprise production environments, deploy containerized applications at scale, and troubleshoot real-world issues with confidence. What you will learn Understand the key differences between Kubernetes and OpenShift 4 Set up OpenShift clusters on cloud, on-prem, and virtualized platforms Secure and manage apps with projects, quotas, network policies, and SCCs Implement GitOps workflows and build applications Monitor and trace services with Service Mesh and observability tools Deploy advanced services such as Data Foundation and Windows Containers Extend OpenShift with custom Operators, upgrade clusters, and troubleshoot issues Who this book is for This book is for DevOps engineers, architects, SREs, and sysadmins with a foundational understanding of Linux and Kubernetes who want to master OpenShift 4 in enterprise environments. Whether you're migrating from OpenShift 3 or starting from scratch, you'll gain practical skills for real-world production deployments.

Foundations of High-Performance Computing Oscar Diez 2026-04-24 *Foundations of High Performance Computing: A Comprehensive Guide to Systems, Concepts, and Programming* offers a comprehensive reference on high-performance computing (HPC). Laying the groundwork for the companion text, *High-Performance Computing: Applications and Frontiers*, this book serves as a comprehensive introduction to the fundamental concepts, systems, and introductory programming techniques. It focuses on infrastructure, programming basics, and practical access to HPC systems, covering the evolution of HPC and offering an architectural overview of HPC systems. In addition, it explores resource management and performance metrics in parallel systems, discussing practical access to HPC and considering the concepts behind distributed and shared memory. Other sections focuses on OpenMP for multithreading, MPI programming, GPU computing, OpenACC, and CUDA, and parallel I/O, data management, filesystems, cloud based HPC, and virtualization. The book concludes with a reference and glossary, equipping the reader with a thorough grounding in the basics of HPC and providing a comprehensive, multidisciplinary guide on the principles and concepts that underpin high performance computing. It is designed for graduate students, early-career professionals, and researchers seeking to build a solid foundation in HPC. - Offers comprehensive coverage of modern high performance computing topics, including hybrid cloud HPC, quantum computing, and GPU optimization - Focuses on infrastructure, programming basics, and practical access to HPC systems - Provides hands-on examples, exercises, and access to code repositories to solidify practical understanding - Sits alongside its companion book, *High-Performance Computing: Applications and Frontiers*, to develop the reader's understanding and skills from introduction to advance level

Kubeadm Cluster Deployment and Management Guide Richard

Johnson 2025-05-29 "Kubeadm Cluster Deployment and Management Guide" The "Kubeadm Cluster Deployment and Management Guide" is a comprehensive, in-depth resource designed for infrastructure engineers and platform operators who seek to confidently deploy, scale, and maintain Kubernetes clusters using kubeadm. The book opens by establishing a clear understanding of Kubernetes' underlying architecture and explores kubeadm's unique features, design principles, and security considerations. It offers clear comparisons between kubeadm and alternative cluster management tools, ensuring readers understand where kubeadm excels and how to align their infrastructure choices to best practices in security and reliability. With meticulous attention to real-world operational needs, this guide delves into every stage of the cluster lifecycle—from infrastructure preparation and high-availability designs to advanced bootstrapping, scaling, and day-2 operations. Readers will gain practical knowledge in network and storage planning, robust node and cluster initialization, advanced add-on deployments, and seamless cluster upgrades. Each chapter presents detailed methodologies encompassing resource sizing, automation using modern DevOps tools, secure configuration of networking and authentication, disaster recovery protocols, and compliance with regulatory frameworks such as PCI, HIPAA, and NIST. The text stands out for its treatment of troubleshooting, diagnostics, and ecosystem integration, arming readers with systematic guidance for diagnosing complex failures, optimizing observability, and implementing resilient, scalable systems. It also provides pathways for automation with Infrastructure as Code, GitOps, CI/CD, and multi-cluster management, ensuring organizations are equipped for evolving operational realities. Concluding with timely insights into the kubeadm project ecosystem and community innovation, this guide positions itself as an essential reference for both Kubernetes newcomers and advanced practitioners determined to master production-grade cluster management.

Advances in Engineering and Information Science Toward Smart City and Beyond Ryoichi Shinkuma 2023-05-24 This book presents advances on the state of the art in smart cities systems and applications based on the proof of concept and prototyping for smart cities in an interdisciplinary context of engineering and information sciences. Smart cities have emerged as highly complex technological endeavors that combine knowledge and technology from many disciplines ranging from information sciences to engineering. Due to their complex nature, the modeling, development, and prototyping of applications in smart cities present a myriad of challenges, including technical, economic, and social ones, across application subdomains such as smart transportation, social welfare, tourism, and smart industry. It becomes difficult or sometimes impossible to provide a solution for such potential research issues and challenges from a traditional disciplinary-approach only; to tackle such research issues and to make the paradigm of smart cities a reality, interdisciplinary approaches are deemed necessary. Readers, developers, practitioners, and policy-makers in the field find in the book insights, experiences, findings, and perspectives on smart cities applications with an emphasis on real-life prototyping, beyond the confines of laboratory experiments.

SUSE Linux Enterprise Server 16 Official Administration Guide

Miguel Pérez Colino 2026-01-07 The official SUSE Linux guide to mastering Linux administration. Deploy, secure, and manage SLES 16 servers while preparing for the SCA certification Key Features Build real-world SLES 16 sysadmin skills through hands-on tasks and examples Secure and optimize enterprise Linux systems using mcphost, cockpit, firewalld, SELinux, and system roles Prepare for the SUSE Certified Administrator (SCA) exam with guided exercises Purchase of the print or Kindle book includes a free PDF eBook Book Description Mastering enterprise Linux administration can be overwhelming without guidance, especially for those targeting the SUSE Certified Administrator (SCA) certification or managing critical IT infrastructures. This practical guide offers the complete skillset required to confidently operate, secure, and maintain SUSE Linux Enterprise Server (SLES) 16. Written by senior SUSE product experts, this book helps you deploy physical and cloud systems, configure software and networking, secure services using firewalld and SELinux, and manage storage using BTRFS and LVM. With step-by-step instructions, real-world examples, and detailed chapters on automation with system roles and containers with Podman, you'll build confidence across core Linux administration topics. You'll also gain hands-on practice with system snapshots, kernel tuning, and AI with mcphost. It also includes a brief introduction to SLES 4 SAP-specific features. You'll learn how to configure services, harden systems, automate infrastructure with tools like Agama, Cockpit, and System

Roles. This is the only official guide for SLE administrators and engineers, providing trusted insight you will not find anywhere else. By the end, you will be well-equipped to manage SLES systems in enterprise environments and approach the SCA certification with confidence. What you will learn Install and configure SLES 16 on physical and cloud platforms Manage users, permissions, and network settings Secure systems using firewalld and SELinux Administer remote access with SSH, Cockpit, and tunnels Use Agent AI with mcphost Handle storage with BTRFS, LVM, and NFS Tune system performance and kernel parameters Use automation tools like Ansible and system roles Deploy and manage containers using Podman Who this book is for This book is for system administrators, platform engineers, DevOps professionals, developers, and certification aspirants looking to strengthen their Linux expertise, prepare for the SUSE Certified Administrator (SCA) exam, and gain practical skills for managing IT infrastructures. It is especially valuable for those working with SAP environments on Linux, where reliability and performance are critical. Prior Linux knowledge isn't required, but familiarity with basic IT concepts will be helpful.

Essential Solutions Architect's Handbook Bikramjit Debnath

2025-04-30 DESCRIPTION In an era where cloud computing, AI, and automation are reshaping industries, this book offers a comprehensive guide for IT professionals seeking to master modern software architecture. It will help bridge the gap between technical expertise and strategic leadership, empowering developers and mid-career professionals to stay ahead in an AI-driven, cloud-first world. Structured into six categories, this book covers key areas such as cloud foundations and migration, modern application development, and AI and advanced technologies. Readers will learn strategies for seamless cloud migration, microservices, serverless computing, and real-time data processing. This book will also provide insights into AI architecture, MLOps, and cloud data warehousing. The book's focus on infrastructure automation, observability, and FinOps ensures operational efficiency while preparing you for future technological trends like hybrid/multi-cloud strategies, quantum computing, and sustainable IT practices. After reading this book, readers will have gained practical skills in cloud architecture, AI deployment, and data-driven decision-making. With strategic insights and industry best practices, they will be well-equipped to take on leadership roles such as solution architect, enterprise architect, or CTO, driving innovation and shaping the future of technology in their organizations. WHAT YOU WILL LEARN ● Understand solution architecture principles and design scalable solutions. ● Learn cloud migration strategies, including data center and application assessments. ● Explore modern application design practices like microservices and serverless. ● Master data management, governance, and real-time data processing techniques. ● Gain insights into generative AI, AI operationalization, and MLOps. ● Automate infrastructure with IaC, observability, and site reliability engineering. WHO THIS BOOK IS FOR This book is designed for experienced cloud engineers, cloud developers, systems administrators, and solutions architects who aim to expand their expertise toward a CTO-level understanding. It is perfect for professionals with intermediate to advanced knowledge of cloud technologies, systems architecture, and programming, seeking to elevate their strategic and technical skills. TABLE OF CONTENTS 1.

Introduction to Solution Architecture 2. Cloud Migration Essentials 3. Operational Excellence in Cloud 4. Modern Application Architecture 5. Development Practices and Tools 6. Data Architecture and Processing 7. Data Strategy and Governance 8. Advanced Analytics 9. Generative AI and Machine Learning 10. Automation and Infra Management 11. FinOps Foundations 12. Security, Privacy, and Ethics 13. Innovation and Future Technologies 14. CTO's Playbook for Transformation APPENDIX: Additional Resources for Further Learning

Modernization Techniques for IBM Power Tim Simon 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.

Architecting and Operating OpenShift Clusters William Caban

2019-09-06 Design and architect resilient OpenShift clusters and gain a keen understanding of how hundreds of projects are integrated into a powerful solution. While there are many OpenShift resources available for developers, this book focuses on the key elements of infrastructure and operations that teams need when looking to integrate and maintain this platform. You'll review important concepts, such as repeatable deployment techniques, advanced OpenShift RBAC capabilities, monitoring clusters, and integrating with external services. You'll also see how to run specialized workloads in OpenShift and how to deploy non-web based applications on the platform, all designed to help cultivate best practices as your organization continue evolve in microservices architectures. OpenShift has become the main enterprise Kubernetes distribution and its market penetration continues to growth at rapid rate. While OpenShift's documentation provides a great list of configuration options to work with the platform, it can be a daunting task to wade through. Architecting and Operating OpenShift Clusters breaks this content down into clear and useful concepts to provide you with a solid understanding of the OpenShift internal architecture. What You'll Learn Operate high availability in multi-tenant OCP clusters Understand OpenShift SDN models, capabilities, and storage classes Integrate OCP with existing data center capabilities and CI/CD pipelines Support advanced capabilities like: Istio, Multus, Kubernetes Operators, hybrid deployments Who This Book Is For Cloud architects, OpenShift cluster administrators, and teams supporting developers in OpenShift environments who have a basic understanding of this platform and microservices architectures.

Kubernetes With Terraform Ansible And Openshift On

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