

# Red hat ceph storage .pdf

Ceph Cookbook Ceph: Designing and Implementing Scalable Storage Systems Learning Ceph Red Hat Ceph Storage a Clear and Concise Reference Learning Ceph - Second Edition Software Defined Data Center with Red Hat Cloud and Open Source IT Operations Management Ceph Cookbook IaaS mit OpenStack Using the IBM Block Storage CSI Driver in a Red Hat OpenShift Environment Mastering Ceph Linux Hochverfügbarkeit AI Factory T Bytes Agile & AI Operations Network Storage IBM Storage for Red Hat OpenShift Blueprint Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing CCNA Cloud Complete Study Guide Big Data Analytics for Smart and Connected Cities Computational Collective Intelligence Building a Red Hat OpenShift Environment on IBM Z Developments in Information & Knowledge Management for Business Applications iX Kompakt - Container und Virtualisierung Docker Orchestration Advances in Emerging Trends and Technologies OpenStack Cloud Security La transformation digitale et infoassurance Mastering KVM Virtualization Performance Evaluation and Benchmarking. Traditional - Big Data - Internet of Things Storage Systems Block Trace Analysis and Storage System Optimization IBM Spectrum Protect Plus Practical Guidance for Deployment, Configuration, and Usage Linux От новичка к профессионалу. 7 изд. Kubernetes in Action c't Linux 2015 Linux. От новичка к профессионалу, 6-е изд. OpenLDAP 2.4 iX Kompakt - Cloud fürs Unternehmen Kubernetes Operators T-Byte Agile & AI Operations March 2021 Versionsverwaltung mit Git

## **Ceph Cookbook 2017-11-24**

over 100 effective recipes to help you design implement and troubleshoot manage the software defined and massively scalable ceph storage system about this book implement a ceph cluster successfully and learn to manage it recipe based approach in learning the most efficient software defined storage system implement best practices on improving efficiency and security of your storage cluster learn to troubleshoot common issues experienced in a ceph cluster who this book is for this book is targeted at storage and cloud engineers system administrators or anyone who is interested in building software defined storage to power your cloud or virtual infrastructure if you have basic knowledge of gnu linux and storage systems with no experience of software defined storage solutions and ceph but eager to learn then this book is for you what you will learn understand install configure and manage the ceph storage system get to grips with performance tuning and benchmarking and learn practical tips to help run ceph in production integrate ceph with openstack cinder glance and nova components deep dive into ceph object storage including s3 swift and keystone integration configure a disaster recovery solution with a ceph multi site v2 gateway setup and rados block device mirroring gain hands on experience with ceph metrics and vsm for cluster monitoring familiarize yourself with ceph operations such as maintenance monitoring and troubleshooting understand advanced topics including erasure coding crush map cache pool and general ceph cluster maintenance in detail ceph is a unified distributed storage system designed for reliability and scalability this technology has been transforming the software defined storage industry and is evolving rapidly as a leader with its wide range of support for popular cloud platforms such as openstack and cloudstack and also for virtualized platforms ceph is backed by red hat and has been developed by community of developers which has gained immense traction in recent years this book will guide you right from the basics of ceph such as creating blocks object storage and filesystem access to advanced concepts such as cloud integration solutions the book will also cover practical and easy to implement recipes on cephfs rgw and rbd with respect to the major stable release of ceph jewel towards the end of the book recipes based on troubleshooting and best practices will help you get to grips with managing ceph storage in a production environment by the end of this book you will have practical hands on experience of using ceph efficiently for your storage requirements style and approach this step by step guide is filled with practical tutorials making complex scenarios easy to understand

## ***Ceph: Designing and Implementing Scalable Storage Systems*** **2019-01-31**

get to grips with the unified highly scalable distributed storage system and learn how to design and implement it key features explore ceph s architecture in detail implement a ceph cluster successfully and gain deep insights into its best practices leverage the advanced features of ceph including erasure coding tiering and

bluestorebook description this learning path takes you through the basics of ceph all the way to gaining in depth understanding of its advanced features you ll gather skills to plan deploy and manage your ceph cluster after an introduction to the ceph architecture and its core projects you ll be able to set up a ceph cluster and learn how to monitor its health improve its performance and troubleshoot any issues by following the step by step approach of this learning path you ll learn how ceph integrates with openstack glance manila swift and cinder with knowledge of federated architecture and cephfs you ll use calamari and vsm to monitor the ceph environment in the upcoming chapters you ll study the key areas of ceph including bluestore erasure coding and cache tiering more specifically you ll discover what they can do for your storage system in the concluding chapters you will develop applications that use librados and distributed computations with shared object classes and see how ceph and its supporting infrastructure can be optimized by the end of this learning path you ll have the practical knowledge of operating ceph in a production environment this learning path includes content from the following packt products ceph cookbook by michael hackett vikhyat umrao and karan singhmastering ceph by nick fisklearning ceph second edition by anthony d atri vaibhav bhembre and karan singhwhat you will learnunderstand the benefits of using ceph as a storage solutioncombine ceph with openstack cinder glance and nova componentsset up a test cluster with ansible and virtual machine with virtualboxdevelop solutions with librados and shared object classesconfigure bluestore and see its interaction with other configurationstune monitor and recover storage systems effectivelybuild an erasure coded pool by selecting intelligent parameterswho this book is for if you are a developer system administrator storage professional or cloud engineer who wants to understand how to deploy a ceph cluster this learning path is ideal for you it will help you discover ways in which ceph features can solve your data storage problems basic knowledge of storage systems and gnu linux will be beneficial

## ***Learning Ceph 2017-10-13***

implement and manage your software defined massively scalable storage system about this book explore ceph s architecture in order to achieve scalability and high availability learn to utilize ceph efficiently with the help of practical examples successfully implement ceph clusters to scale out storage solutions along with outstanding data protection who this book is for a basic knowledge of gnu linux and storage systems and server components is assumed if you have no experience of software defined storage solutions and ceph but are eager to learn about them this is the book for you what you will learn the limitations of existing systems and why you should use ceph as a storage solution familiarity with ceph s architecture components and services instant deployment and testing of ceph within a vagrant and virtualbox environment ceph operations including maintenance monitoring and troubleshooting storage provisioning of ceph s block object and filesystem services integrate ceph with openstack advanced topics including erasure coding crush maps and performance tuning best practices for your ceph clusters in detail learning ceph second edition will give you all the skills you need to plan deploy and effectively manage your ceph cluster you will begin with the first module where you will be introduced to ceph use cases its architecture and core projects in the next module you will learn to set up a test cluster using ceph clusters and hardware selection after you have learned to use ceph clusters the next module will teach you how to monitor cluster health improve performance and troubleshoot any issues that arise in the last module you will learn to integrate ceph with other tools such as openstack glance manila swift and cinder by the end of the book you will have learned to use ceph effectively for your data storage requirements style and approach this step by step guide including use cases and examples not only helps you to easily use ceph but also demonstrates how you can use it to solve any of your server or drive storage issues

## **Red Hat Ceph Storage a Clear and Concise Reference 2018-11-11**

are you measuring monitoring and predicting red hat ceph storage activities to optimize operations and profitability and enhancing outcomes how do you improve red hat ceph storage service perception and satisfaction how do you accomplish your long range red hat ceph storage goals who will be responsible for making the decisions to include or exclude requested changes once red hat ceph storage is underway are accountability and ownership for red hat ceph storage clearly defined this powerful red hat ceph storage self assessment will make you the entrusted red hat ceph storage domain standout by revealing just what you need to know to be fluent and ready for any red hat ceph storage challenge how do i reduce the effort in the red hat ceph storage work to be done to get problems solved how can i ensure that plans of action include every red hat ceph storage task and that every red hat ceph storage outcome is in place how will i save time investigating strategic and tactical options and ensuring red hat ceph storage costs are low how can i deliver tailored red hat

ceph storage advice instantly with structured going forward plans there s no better guide through these mind expanding questions than acclaimed best selling author gerard blokdyk blokdyk ensures all red hat ceph storage essentials are covered from every angle the red hat ceph storage self assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that red hat ceph storage outcomes are achieved contains extensive criteria grounded in past and current successful projects and activities by experienced red hat ceph storage practitioners their mastery combined with the easy elegance of the self assessment provides its superior value to you in knowing how to ensure the outcome of any efforts in red hat ceph storage are maximized with professional results your purchase includes access details to the red hat ceph storage self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows you exactly what to do next your exclusive instant access details can be found in your book you will receive the following contents with new and updated specific criteria the latest quick edition of the book in pdf the latest complete edition of the book in pdf which criteria correspond to the criteria in the self assessment excel dashboard and example pre filled self assessment excel dashboard to get familiar with results generation plus an extra special resource that helps you with project managing includes lifetime self assessment updates every self assessment comes with lifetime updates and lifetime free updated books lifetime updates is an industry first feature which allows you to receive verified self assessment updates ensuring you always have the most accurate information at your fingertips

## **Learning Ceph - Second Edition 2017-10-13**

implement and manage your software defined massively scalable storage system about this book explore ceph s architecture in order to achieve scalability and high availability learn to utilize ceph efficiently with the help of practical examples successfully implement ceph clusters to scale out storage solutions along with outstanding data protection who this book is for a basic knowledge of gnu linux and storage systems and server components is assumed if you have no experience of software defined storage solutions and ceph but are eager to learn about them this is the book for you what you will learn the limitations of existing systems and why you should use ceph as a storage solution familiarity with ceph s architecture components and services instant deployment and testing of ceph within a vagrant and virtualbox environment ceph operations including maintenance monitoring and troubleshooting storage provisioning of ceph s block object and filesystem services integrate ceph with openstack advanced topics including erasure coding crush maps and performance tuning best practices for your ceph clusters in detail learning ceph second edition will give you all the skills you need to plan deploy and effectively manage your ceph cluster you will begin with the first module where you will be introduced to ceph use cases its architecture and core projects in the next module you will learn to set up a test cluster using ceph clusters and hardware selection after you have learned to use ceph clusters the next module will teach you how to monitor cluster health improve performance and troubleshoot any issues that arise in the last module you will learn to integrate ceph with other tools such as openstack glance manila swift and cinder by the end of the book you will have learned to use ceph effectively for your data storage requirements style and approach this step by step guide including use cases and examples not only helps you to easily use ceph but also demonstrates how you can use it to solve any of your server or drive storage issues

## **Software Defined Data Center with Red Hat Cloud and Open Source IT Operations Management 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

## **Ceph Cookbook 2016-02-29**

over 100 effective recipes to help you design implement and manage the software defined and massively scalable ceph storage system about this book implement a ceph cluster successfully and gain deep insights into its best practices harness the abilities of experienced storage administrators and architects and run your own software defined storage system this comprehensive step by step guide will show you how to build and manage ceph storage in production environment who this book is for this book is aimed at storage and cloud system engineers system administrators and technical architects who are interested in building software defined storage solutions to power their cloud and virtual infrastructure if you have basic knowledge of gnu linux and storage systems with no experience of software defined storage solutions and ceph but eager to learn this book is for you what you will learn understand install configure and manage the ceph storage system get to grips with performance tuning and benchmarking and gain practical tips to run ceph in production integrate ceph with openstack cinder glance and nova components deep dive into ceph object storage including s3 swift and keystone integration build a dropbox like file sync and share service and ceph federated gateway setup gain hands on experience with calamari and vsm for cluster monitoring familiarize yourself with ceph operations such as maintenance monitoring and troubleshooting understand advanced topics including erasure coding crush map cache pool and system maintenance in detail ceph is a unified distributed storage system designed for excellent performance reliability and scalability this cutting edge technology has been transforming the storage industry and is evolving rapidly as a leader in software defined storage space extending full support to cloud platforms such as openstack and cloudstack including virtualization platforms it is the most popular storage backend for openstack public and private clouds so is the first choice for a storage solution ceph is backed by redhat and is developed by a thriving open source community of individual developers as well as several companies across the globe this book takes you from a basic knowledge of ceph to an expert understanding of the most advanced features walking you through building up a production grade ceph storage cluster and helping you develop all the skills you need to plan deploy and effectively manage your ceph cluster beginning with the basics you'll create a ceph cluster followed by block object and file storage provisioning next you'll get a step by step tutorial on integrating it with openstack and building a dropbox like object storage solution we'll also take a look at federated architecture and cephfs and you'll dive into calamari and vsm for monitoring the ceph environment you'll develop expert knowledge on troubleshooting and benchmarking your ceph storage cluster finally you'll get to grips with the best practices to operate ceph in a production environment style and approach this step by step guide is filled with practical tutorials making complex scenarios easy to understand

## **IaaS mit OpenStack 2014-08-05**

seit jahren schwebt der begriff cloud über der it welt openstack ist eine mittlerweile von nahezu allen namhaften herstellerfirmen unterstützte freie softwarelösung für eine infrastructure as a service cloud die prozessorleistung speicher netzwerk dienste die dienste einer kompletten it infrastruktur anbietet dieses buch vermittelt einen einstieg in das thema cloud computing mit openstack es richtet sich an linux systemadministratoren die openstack in der praxis ein und umsetzen wollen nach der klärung grundlegender begriffe und konzepte des cloud computing werden überblicksweise die einzelnen komponenten der openstack infrastruktur und ihr zusammenspiel vorgestellt anschließend werden die wesentlichen komponenten distributionsübergreifend im detail in jeweils einem eigenen kapitel besprochen weitere und zukünftige komponenten werden in einem kurzen überblick skizziert ein kapitel zu setup szenarien zeigt schließlich den

konkreten aufbau einer openstack umgebung anhand der enterprise distributionen red hat enterprise linux suse linux enterprise server sowie ubuntu mit diesem buch finden sie einen weg zur installation konfiguration und administration ihrer eigenen iaas cloud mit openstack die autoren sind mitarbeiter der b1 systems gmbh die sich seit anfang 2011 an der entwicklung von openstack beteiligt und erfolgreich zahlreiche projekte sowohl bei mittelständischen als auch bei dax unternehmen umgesetzt hat ihre praxiserfahrungen sind in das buch miteingeflossen

## **Using the IBM Block Storage CSI Driver in a Red Hat OpenShift Environment 2021-05-12**

redhat openshift container platform is one of the leading enterprise grade container orchestration platforms it is designed for rapid deployment of web applications databases and microservices categorized as a container orchestration platform as a service paas it is based on open industry standards such as the container runtime interface open cri o and kubernetes openshift allow developers to focus on the code while the platform manages the complex it operations and processes although open source community driven container orchestration platforms are available such as okd and kubernetes this ibm redpaper publication focuses on red hat openshift it describes the basic concepts of openshift persistent storage architecture and its integration into ibm cloud paks the deployment of the ibm block storage csi driver also is discussed this publication also describes the concepts technology and current working practices for installing the container storage interface csi plug in for kubernetes to use ibm enterprise storage platforms for persistent storage coupled with red hat openshift container platform ocp this publication also provides an overview of containers kubernetes and openshift for context it is expected that the reader has a working knowledge of these underlying technologies it also includes architectural examples of the orchestration platform will be given this paper serves as a guide about how to deploy the csi driver for block storage by using the ds8000 and spectrum virtualize platforms as persistent storage in a red hat openshift platform the publication is intended for storage administrators it architects openshift technical specialists and anyone who wants to integrate ibm enterprise storage on openshift v4 3 4 4 5 on ibm power ibm z and x86 systems

## **Mastering Ceph 2019-03-05**

discover the unified distributed storage system and improve the performance of applications key features explore the latest features of ceph s mimic release get to grips with advanced disaster and recovery practices for your storage harness the power of reliable autonomic distributed object store rados to help you optimize storage systems book description ceph is an open source distributed storage system that is scalable to exabyte deployments this second edition of mastering ceph takes you a step closer to becoming an expert on ceph you ll get started by understanding the design goals and planning steps that should be undertaken to ensure successful deployments in the next sections you ll be guided through setting up and deploying the ceph cluster with the help of orchestration tools this will allow you to witness ceph s scalability erasure coding data protective mechanism and automated data backup features on multiple servers you ll then discover more about the key areas of ceph including bluestore erasure coding and cache tiering with the help of examples next you ll also learn some of the ways to export ceph into non native environments and understand some of the pitfalls that you may encounter the book features a section on tuning that will take you through the process of optimizing both ceph and its supporting infrastructure you ll also learn to develop applications which use librados and distributed computations with shared object classes toward the concluding chapters you ll learn to troubleshoot issues and handle various scenarios where ceph is not likely to recover on its own by the end of this book you ll be able to master storage management with ceph and generate solutions for managing your infrastructure what you will learn plan design and deploy a ceph cluster get well versed with different features and storage methods carry out regular maintenance and daily operations with ease tune ceph for improved roi and performance recover ceph from a range of issues upgrade clusters to bluestore who this book is for if you are a storage professional system administrator or cloud engineer looking for guidance on building powerful storage solutions for your cloud and on premise infrastructure this book is for you

## **Linux Hochverfügbarkeit 2011**

lokale ha raid lvm nic bonding und smart linux ha cluster corosync openais pacemaker drbd und clvm xen kvm

vms im cluster backup und disaster recovery hochverfügbarkeit ist ein zentrales und ebenso komplexes thema für jeden administrator profitieren sie jetzt von den praxiserprobten setups und dem technischen background die der langjährige linux experte oliver liebel für sie zusammengestellt hat so sorgen sie einfach und mit moderaten hardware ressourcen dafür dass ihre linux server lokal und im netz stets hochverfügbar sind das buch beleuchtet die wichtigsten aspekte der lokalen hochverfügbarkeit und die sicherstellung der redundanz der wichtigsten serverkomponenten disk monitoring mit smart ausfallsichere netzdevices per bonding redundante soft raids kombiniert mit skalierbaren logical volumes und nicht zuletzt die auswahl des passenden linux dateisystems inklusive ext4 und seinem in den startlöchern stehenden nachfolger btrfs zur sicherstellung der hochverfügbarkeit auf netzwerkebene werden aktuelle und praxiserprobte cluster setups mit heartbeat bzw openais und pacemaker anschaulich erläutert das ganze ergänzt durch storage verwaltung im cluster drbd im dual primary mode clustered logical volumes cluster dateisysteme wie ocfs2 und gfs shared storage mit iscsi und vieles andere mehr zur optimalen ausnutzung und verfügbarkeit der ressourcen wird das setup von virtuellen xen und kvm maschinen im cluster eingängig erläutert sowie deren live migration damit sie die optimale verfügbarkeit der vms in jeder situation sicherstellen

## **AI Factory 2023-05-24**

this book provides insights into how to approach and utilise data science tools technologies and methodologies related to artificial intelligence ai in industrial contexts it explains the essence of distributed computing and ai technologies and their interconnections it includes descriptions of various technology and methodology approaches and their purpose and benefits when developing ai solutions in industrial contexts in addition this book summarises experiences from ai technology deployment projects from several industrial sectors features presents a compendium of methodologies and technologies in industrial ai and digitalisation illustrates the sensor to actuation approach showing the complete cycle which defines and differentiates ai and digitalisation covers a broad range of academic and industrial issues within the field of asset management discusses the impact of industry 4 0 in other sectors includes a dedicated chapter on real time case studies this book is aimed at researchers and professionals in industrial and software engineering network security ai and machine learning ml engineering managers operational and maintenance specialists asset managers and digital and ai manufacturing specialists

## **T Bytes Agile & AI Operations 2020-10-05**

this document brings together a set of latest data points and publicly available information relevant for agile ai operations industry we are very excited to share this content and believe that readers will benefit from this periodic publication immensely

## **Network Storage 2016-10-14**

network storage tools and technologies for storing your company s data explains the changes occurring in storage what they mean and how to negotiate the minefields of conflicting technologies that litter the storage arena all in an effort to help it managers create a solid foundation for coming decades the book begins with an overview of the current state of storage and its evolution from the network perspective looking closely at the different protocols and connection schemes and how they differentiate in use case and operational behavior the book explores the software changes that are motivating this evolution ranging from data management to in stream processing and storage in virtual systems and changes in the decades old os stack it explores software defined storage as a way to construct storage networks the impact of big data high performance computing and the cloud on storage networking as networks and data integrity are intertwined the book looks at how data is split up and moved to the various appliances holding that dataset and its impact because data security is often neglected users will find a comprehensive discussion on security issues that offers remedies that can be applied the book concludes with a look at technologies on the horizon that will impact storage and its networks such as nvdimms the hybrid memory cube vsans and nand killers puts all the new developments in storage networking in a clear perspective for near term and long term planning offers a complete overview of storage networking serving as a go to resource for creating a coherent implementation plan provides the details needed to understand the area and clears a path through the confusion and hype that surrounds such a radical revolution of the industry

## **IBM Storage for Red Hat OpenShift Blueprint 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

## **Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing 2021-01-25**

distributed systems intertwine with our everyday lives the benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices with the rise of large scale iot and similar distributed systems cloud bursting technologies and partial outsourcing solutions private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users the research anthology on architectures frameworks and integration strategies for distributed and cloud computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing it also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems highlighting a range of topics such as data sharing wireless sensor networks and scalability this multi volume book is ideally designed for system administrators integrators designers developers researchers academicians and students

## **CCNA Cloud Complete Study Guide 2018-04-09**

cisco has announced big changes to its certification program as of february 24 2020 all current certifications will be retired and cisco will begin offering new certification programs the good news is if you re working toward any current ccna certification keep going you have until february 24 2020 to complete your current ccna if you already have ccent icnd1 certification and would like to earn ccna you have until february 23 2020 to complete your ccna certification in the current program likewise if you re thinking of completing the current ccent icnd1 icnd2 or ccna routing and switching certification you can still complete them between now and february 23 2020 increase the value of your organization s cloud network and invest in your education the cisco cloud certification validates the skill set of individuals on industry leading cloud solutions and best practices as well as offering job role based curricula for all levels of an it staff ccna cloud complete study guide prepares you to take two required exams 210 451 understanding cisco cloud fundamentals and 210 455 introducing cisco cloud administration it covers everything you can expect to encounter on the exams and also gives you a year of free access to sybex s superior online interactive learning environment and test bank including chapter tests practice exams a glossary of key terms and electronic flashcards cisco s ccna cloud certification covers cloud characteristics and models cloud deployment and basic knowledge of cloud compute cloud networking and cloud storage it also covers cloud infrastructure administration and reporting chargeback and billing reports cloud provisioning cloud systems management and monitoring and cloud remediation with thorough coverage practical instruction and expert insight this book provides an ideal resource for exam 210 451 and exam 210 455 preparation includes an opening list of exam topics provides valuable hands on exercises offers practical real world examples distills in depth perspective from cloud computing experts this book is the perfect resource for anyone seeking to earn the challenging but rewarding ccna cloud certification

## ***Big Data Analytics for Smart and Connected Cities 2018-09-07***

to continue providing people with safe comfortable and affordable places to live cities must incorporate techniques and technologies to bring them into the future the integration of big data and interconnected technology along with the increasing population will lead to the necessary creation of smart cities big data analytics for smart and connected cities is a pivotal reference source that provides vital research on the application of the integration of interconnected technologies and big data analytics into the creation of smart cities while highlighting topics such as energy conservation public transit planning and performance measurement this publication explores technology integration in urban environments as well as the methods of planning cities to implement these new technologies this book is ideally designed for engineers professionals researchers and technology developers seeking current research on technology implementation in urban settings

## ***Computational Collective Intelligence 2019-10-04***

this two volume set Inai 11683 and Inai 11684 constitutes the refereed proceedings of the 11th international conference on computational collective intelligence iccci 2019 held in hendaye france in september 2019 the 117 full papers presented were carefully reviewed and selected from 200 submissions the papers are grouped in topical sections on computational collective intelligence and natural language processing machine learning in real world data distributed collective intelligence for smart manufacturing collective intelligence for science and technology intelligent management information systems intelligent sustainable smart cities new trends and challenges in education the university 4 0 intelligent processing of multimedia in web systems and big data streaming applications and security

## ***Building a Red Hat OpenShift Environment on IBM Z 2022-08-10***

cybersecurity is the most important arm of defense against cyberattacks with the recent increase in cyberattacks corporations must focus on how they are combating these new high tech threats when establishing best practices a corporation must focus on employees access to specific workspaces and information ibm z focuses on allowing high processing virtual environments while maintaining a high level of security in each workspace organizations not only need to adjust their approach to security but also their approach to it environments to meet new customer needs and expectations organizations must take a more agile approach to their business ibm z allows companies to work with hybrid and multi cloud environments that allows more ease of use for the user and efficiency overall working with ibm z organizations can also work with many databases that are included in ibm cloud pak for data ibm cloud pak for data allows organizations to make more informed decisions with improved data usage along with the improved data usage organizations can see the effects from working in a red hat openshift environment red hat openshift is compatible across many hardware services and allows the user to run applications in the most efficient manner the purpose of this ibm redbooks publication is to introduce ibm z and linuxone platforms and how they work with the red hat openshift environment and ibmcloud pak for data provide examples and the uses of ibm z with cloud paks for data that show data gravity consistent development experience and consolidation and business resiliency the target audience for this book is ibm z technical specialists it architects and system administrators

## ***Developments in Information & Knowledge Management for Business Applications 2022-03-29***

this book discusses incentives for information management usage of information for existing practices to become more efficient the acceleration of executive learning and an evaluation of the information management impact on an organization in today s covid influenced volatile world companies face a variety of challenges and the most crucial of them are high levels of uncertainty and risk therefore companies are constantly under pressure to provide sustainable solutions accordingly previously gathered knowledge and information can be extremely helpful for this purpose hence this fourth book of our subseries continues to accentuate on different approaches which point to the importance of continuous progress in structural management for sustainable growth it highlights the permanent gain and usage of information we would be pleased if the book can stimulate further research on this subject matter



## **ix Kompakt - Container und Virtualisierung 2017-09-06**

die software virtualisierung prägt seit langem ganze it infrastrukturen und komplette branchen etwa das webhosting für viele einsatzzwecke genügt es server hardware durch ein virtualisiertes pendant zu ersetzen auf dem das gewohnte softwarepaket etwa bestehend aus betriebssystem webserver skriptsprachen interpreter und datenbankmanagementsystem unverändert läuft den markt dominiert nicht mehr allein vmware dem bisherigen platzhirsch ist ernsthafte konkurrenz durch den softwarekonzern microsoft hyper v und den freien virtualisierer qemu kvm erwachsen wo sich komplette virtuelle maschinen als zu schwerfällig erweisen bietet sich mittlerweile die sogenannte containerisierung auf betriebssystemebene an docker hat einen regelrechten boom ausgelöst die sicherheit skalierbarkeit und zuverlässigkeit der container steht und fällt mit den zur verfügung stehenden verwaltungswerkzeugen solchen herausforderungen widmet sich das ix kompakt container und virtualisierung ausführlich es richtet sich an softwareentwickler systemadministratoren projektleiter und berater die entscheidungshilfen für die einföhrung oder unterstützung beim einsatz dieser technologien benötigen das 156 seiten dicke sonderheft container und virtualisierung enthält in der digitalen ausgabe einen link über den der auf heft dvd erhältliche inhalt per download zu beziehen ist

## **Docker Orchestration 2017-01-24**

a concise fast paced guide to orchestrating and deploying scalable services with docker about this book explore the new features added to the core docker engine to make multi container orchestration easy leverage tools such as docker machine swarm compose and third party tools such as kubernetes mesosphere and coreos to orchestrate containers use docker compose with swarm and apply rolling updates for zero downtime deployments who this book is for this book is aimed at sysadmins and devops engineers who know what docker does and are now looking to manage multiple containers on multiple hosts using the orchestration feature what you will learn build scalable reliable services with docker see how to manage a service in docker using docker swarm kubernetes and mesosphere discover simpler orchestration tools such as coreos fleet and rancher cattle understand cluster wide logging system monitoring and troubleshooting build test and deploy containers using continuous integration deploy cluster hosts on cloud services and automate your infrastructure in detail docker orchestration is what you need when transitioning from deploying containers individually on a single host to deploying complex multi container apps on many machines this book covers the new orchestration features of docker 1.12 and helps you efficiently build test and deploy your application using docker you will be shown how to build multi container applications using docker compose you will also be introduced to the building blocks for multi host docker clusters such as registry overlay networks and shared storage using practical examples this book gives an overview of core tools such as docker machine swarm and compose which will enhance your orchestration skills you will learn how to set up a swarm using the decentralized building block next you will be shown how to make the most out of the in built orchestration feature of docker engine and you will use third party tools such as kubernetes mesosphere and coreos to orchestrate your existing process finally you will learn to deploy cluster hosts on cloud services and automate your infrastructure style and approach this comprehensive guide will take you through the orchestration feature of docker using practical examples you will discover various tools that can be used to manage multiple containers with ease

## ***Advances in Emerging Trends and Technologies 2019-10-12***

this book constitutes the proceedings of the 1st international conference on advances in emerging trends and technologies icaett 2019 held in quito ecuador on 29-31 may 2019 jointly organized by universidad tecnológica israel universidad técnica del norte and instituto tecnológico superior rumiñahui and supported by snotra icaett 2019 brought together top researchers and practitioners working in different domains of computer science to share their expertise and to discuss future developments and potential collaborations presenting high quality peer reviewed papers the book discusses the following topics technology trends electronics intelligent systems machine vision communication security e learning e business e government and e participation

## **OpenStack Cloud Security 2015-07-28**

openstack is a system that controls large pools of computing storage and networking resources allowing its users to provision resources through a user friendly interface openstack helps developers with features such as

rolling upgrades federated identity and software reliability you will begin with basic security policies such as mac mls and mcs and explore the structure of openstack and virtual networks with neutron next you will configure secure communications on the openstack api with http connections you will also learn how to set openstack keystone and openstack horizon and gain a deeper understanding of the similarities differences between openstack cinder and openstack swift by the end of this book you will be able to tweak your hypervisor to make it safer and a smart choice based on your needs

## ***La transformation digitale et infoassurance 2023-09-05***

au fil de ses quinze chapitres vous découvrirez les grands bouleversements provoqués par les géants de la technologie les transformations organisationnelles nécessaires pour s adapter à ce nouvel environnement ainsi que l importance cruciale de la cybersécurité dans notre société connectée plongez vous dans les différenciateurs et les solutions digitales alimentées par l intelligence artificielle et découvrez comment les méthodologies agiles peuvent optimiser votre efficacité explorez les débats autour de l offshoring découvrez les implications du rgpd et les pratiques américaines et plongez dans l univers des données cruciales et sensibles laissez vous surprendre par les applications quantiques dans le domaine de l assurance et explorez les stratégies de portefeuille projets capacité plan et projets globaux cet ouvrage s adresse à tous ceux qui souhaitent s immerger dans les défis et les possibilités offertes par la transformation numérique que vous soyez un professionnel chevronné ou simplement curieux il saura vous éclairer et vous inspirer dans votre parcours technologique

## ***Mastering KVM Virtualization 2020-10-23***

learn how to configure automate orchestrate troubleshoot and monitor kvm based environments capable of scaling to private and hybrid cloud models key features gain expert insights into linux virtualization and the kvm ecosystem with this comprehensive guide learn to use various linux tools such as qemu ovirt libvirt cloud init and cloudbase initscale monitor and troubleshoot your vms on various platforms including openstack and aws book description kernel based virtual machine kvm enables you to virtualize your data center by transforming your linux operating system into a powerful hypervisor that allows you to manage multiple operating systems with minimal fuss with this book you ll gain insights into configuring troubleshooting and fixing bugs in kvm virtualization and related software this second edition of mastering kvm virtualization is updated to cover the latest developments in the core kvm components libvirt and qemu starting with the basics of linux virtualization you ll explore vm lifecycle management and migration techniques you ll then learn how to use spice and vnc protocols while creating vms and discover best practices for using snapshots as you progress you ll integrate third party tools with ansible for automation and orchestration you ll also learn to scale out and monitor your environments and will cover ovirt openstack eucalyptus aws and elk stack throughout the book you ll find out more about tools such as cloud init and cloudbase init finally you ll be taken through the performance tuning and troubleshooting guidelines for kvm based virtual machines and a hypervisor by the end of this book you ll be well versed with kvm virtualization and the tools and technologies needed to build and manage diverse virtualization environments what you will learn implement kvm virtualization using libvirt and ovirt delve into kvm storage and network understand snapshots templates and live migration features get to grips with managing scaling and optimizing the kvm ecosystem discover how to tune and optimize kvm virtualization hosts adopt best practices for kvm platform troubleshooting who this book is for if you are a systems administrator devops practitioner or developer with linux experience looking to sharpen your open source virtualization skills this virtualization book is for you prior understanding of the linux command line and virtualization is required before getting started with this book

## ***Performance Evaluation and Benchmarking. Traditional - Big Data - Internet of Things 2017-02-17***

this book constitutes the thoroughly refereed post conference proceedings of the 8th tpc technology conference on performance evaluation and benchmarking tpctc 2016 held in conjunction with the 41st international conference on very large databases vldb 2016 in new delhi india in september 2016 the 9 papers presented were carefully reviewed and selected from 20 submissions they reflect the rapid pace at which industry experts and researchers develop innovative techniques for evaluation measurement and characterization of complex

systems

## **Storage Systems 2021-10-13**

storage systems organization performance coding reliability and their data processing was motivated by the 1988 redundant array of inexpensive independent disks proposal to replace large form factor mainframe disks with an array of commodity disks disk loads are balanced by striping data into strips with one strip per disk and storage reliability is enhanced via replication or erasure coding which at best dedicates  $k$  strips per stripe to tolerate  $k$  disk failures flash memories have resulted in a paradigm shift with solid state drives ssds replacing hard disk drives hdds for high performance applications raid and flash have resulted in the emergence of new storage companies namely emc netapp sandisk and purestorage and a multibillion dollar storage market key new conferences and publications are reviewed in this book the goal of the book is to expose students researchers and it professionals to the more important developments in storage systems while covering the evolution of storage technologies traditional and novel databases and novel sources of data we describe several prototypes fawn at cmu ramcloud at stanford and lightstore at mit oracle s exadata aws aurora alibaba s polardb fungible data center and author s paper designs for cloud storage namely heterogeneous disk arrays and hierarchical raid surveys storage technologies and lists sources of data measurements text audio images and video familiarizes with paradigms to improve performance caching prefetching log structured file systems and merge trees lsms describes raid organizations and analyzes their performance and reliability conserves storage via data compression deduplication compaction and secures data via encryption specifies implications of storage technologies on performance and power consumption exemplifies database parallelism for big data analytics deep learning via multicore cpus gpus fpgas and asics e g google s tensor processing units

## **Block Trace Analysis and Storage System Optimization 2018-11-16**

understand the fundamental factors of data storage system performance and master an essential analytical skill using block trace via applications such as matlab and python tools you will increase your productivity and learn the best techniques for doing specific tasks such as analyzing the io pattern in a quantitative way identifying the storage system bottleneck and designing the cache policy in the new era of iot big data and cloud systems better performance and higher density of storage systems has become crucial to increase data storage density new techniques have evolved and hybrid and parallel access techniques together with specially designed io scheduling and data migration algorithms are being deployed to develop high performance data storage solutions among the various storage system performance analysis techniques io event trace analysis block level trace analysis particularly is one of the most common approaches for system optimization and design however the task of completing a systematic survey is challenging and very few works on this topic exist block trace analysis and storage system optimization brings together theoretical analysis such as io qualitative properties and quantitative metrics and practical tools such as trace parsing analysis and results reporting perspectives the book provides content on block level trace analysis techniques and includes case studies to illustrate how these techniques and tools can be applied in real applications such as sshd raid hadoop and ceph systems what you ll learn understand the fundamental factors of data storage system performance master an essential analytical skill using block trace via various applications distinguish how the io pattern differs in the block level from the file level know how the sequential hdfs request becomes fragmented in final storage devices perform trace analysis tasks with a tool based on the matlab and python platforms who this book is for it professionals interested in storage system performance optimization network administrators data storage managers data storage engineers storage network engineers systems engineers

## **IBM Spectrum Protect Plus Practical Guidance for Deployment, Configuration, and Usage 2021-03-31**

ibm spectrum protect plus is a data protection solution that provides near instant recovery replication retention management and reuse for virtual machines databases and applications backups in hybrid multicloud environments ibm knowledge center for ibm spectrum protect plus provides extensive documentation for installation deployment and usage in addition build and size an ibm spectrum protect plus solution the goal of this ibm redpaper publication is to summarize and complement the available information by providing useful hints and tips that are based on the authors practical experience in installing and supporting ibm spectrum

protect plus in customer environments over time our aim is to compile a set of best practices that cover all aspects of the product from planning and installation to tuning maintenance and troubleshooting

## **Linux От новичка к профессионалу. 7 изд. 2020**

Даны ответы на все вопросы возникающие при работе с linux от установки и настройки этой ОС до настройки сервера на базе linux Материал книги максимально охватывает все сферы применения linux от запуска windows игр под управлением linux до настройки собственного сервера Также рассмотрены вход в систему работа с файловой системой использование графического интерфейса установка программного обеспечения настройка сети и Интернета работа в Интернете средства безопасности резервное копирование защита от вирусов и другие вопросы Материал ориентирован на последние версии дистрибутивов fedora opensuse slackware ubuntu В седьмом издании книги много внимания уделяется веб серверам в частности добавлены описание настройки ssl сертификата и рекомендации по ускорению работы с помощью google сервиса pagespeed и системы кэширования данных memcached На сайте издательства находятся дополнительные главы в pdf файлах и видеоуроки Файлы для книги можно скачать по ссылке <ftp://ftp.bhv.ru/9785977566490.zip>

## **Kubernetes in Action 2018-07-09**

mit kubernetes große container infrastrukturen ausfallsicher verwalten nach einer einföhrung in die typischen problemstellungen mit denen softwareentwickler und administratoren konfrontiert sind und wie diese mit kubernetes gelöst werden können lernen sie in einem ersten beispielprojekt die praktische umsetzung es wird gezeigt wie eine einfache in einem container laufende applikation über ein kubernetes cluster verwaltet werden kann im zweiten teil des buches lernen sie die zu grunde liegenden konzepte kennen deren verständnis unbedingt notwendig ist um große container cluster mit kubernetes zu betreiben im letzten teil wird die funktionsweise von kubernetes beschrieben und auf weiterführende aspekte eingegangen hier wird außerdem das erworbene wissen aus den ersten beiden teilen zusammengeführt damit sie den vollen nutzen aus der kubernetes plattform ziehen können

## **c't Linux 2015 2015-08-17**

das c t spezial linux 2015 liefert wieder zahlreiche tips und tricks für den einsatz als desktop und auf servern linux distributionen die langjährigen support bieten bilden diesmal einen schwerpunkt des hefts im schwerpunkt server widmet sich die redaktion unter anderem der sicherheitserweiterung apparmor weitere themen des 156 seiten starken hefts sind alternative desktops für linux mail clients musikverwaltung linux grafik und vieles mehr käufer des epaper erhalten die inhalte der dvd über einen link im heft

## **Linux. От новичка к профессионалу, 6-е изд. 2018**

Даны ответы на все вопросы возникающие при работе с linux от установки и настройки этой ОС до настройки сервера на базе linux Материал книги максимально охватывает все сферы применения linux от запуска windows игр под управлением linux до настройки собственного сервера Также рассмотрены вход в систему работа с файловой системой использование графического интерфейса установка программного обеспечения настройка сети и Интернета работа в Интернете средства безопасности резервное копирование защита от вирусов и другие вопросы Материал ориентирован на последние версии дистрибутивов fedora opensuse slackware ubuntu В шестом издании описаны виртуальные частные сети виртуальные серверы настройка vpn соединения и vpn сервера выбор vpn провайдера системы виртуализации openvz и virtuozzo программные системы хранения данных с резервированием На сайте издательства находятся дополнительные главы в pdf файлах и видеоуроки Файлы для книги можно скачать по ссылке <ftp://ftp.bhv.ru/9785977539432.zip>

## **OpenLDAP 2.4 2009**

was kann die cloud und welche wege führen dorthin das ix kompakt zum thema cloud fürs unternehmen lässt experten zu wort kommen die ihre erfahrung mit der technik hinter cloud installationen teilen wer nicht selbst

eine cloud aufsetzen möchte findet informationen zu software as a service etwa office aus der cloud oder zum kundenbeziehungsmanagement mit dem salesforce crm beim planen einer nutzung von cloud diensten gilt es außerdem eigene aspekte zu beachten neue risiken datenschutz besonderheiten bei der vertragsgestaltung auch hierzu gibt ix kompakt ratschläge

## **iX Kompakt - Cloud fürs Unternehmen 2016-10-04**

operators are a way of packaging deploying and managing kubernetes applications a kubernetes application doesn't just run on kubernetes it's composed and managed in kubernetes terms operators add application specific operational knowledge to a kubernetes cluster making it easier to automate complex stateful applications and to augment the platform operators can coordinate application upgrades seamlessly react to failures automatically and streamline repetitive maintenance like backups think of operators as site reliability engineers in software they work by extending the kubernetes control plane and api helping systems integrators cluster administrators and application developers reliably deploy and manage key services and components using real world examples authors jason dobies and joshua wood demonstrate how to use operators today and how to create operators for your applications with the operator framework and sdk learn how to establish a kubernetes cluster and deploy an operator examine a range of operators from usage to implementation explore the three pillars of the operator framework the operator sdk the operator lifecycle manager and operator metering build operators from the ground up using the operator sdk build package and run an operator in development testing and production phases learn how to distribute your operator for installation on kubernetes clusters

## **Kubernetes Operators 2020-02-21**

this document brings together a set of latest data points and publicly available information relevant for agile ai operations industry we are very excited to share this content and believe that readers will benefit from this periodic publication immensely

## **T-Byte Agile & AI Operations March 2021 2021-04-03**

viele software entwickler oder systemadministratoren haben git bereits im einsatz sowohl im firmenumfeld als auch in open source projekten zum einstieg lernen anfänger häufig nur die wichtigsten befehle die schnell nicht mehr ausreichen vor allem wenn die ersten fehler auftreten dieses buch behandelt einerseits die gängigen befehle die sie beim täglichen arbeiten mit git brauchen andererseits geht es dem autor auch darum dass sie git als ganzes verstehen um es effektiv im entwicklungsprozess einsetzen zu können der fokus des buches liegt auf dem praktischen arbeiten mit git sie lernen anhand eines kleinen beispielprojektes welche befehle es gibt wie diese arbeiten und wie sie auftretende probleme lösen können neben den funktionen die sie täglich brauchen finden sie auch eher seltener gebrauchte kommandos die aber ebenfalls wichtig sind dabei legt der autor auch großen wert auf die einbindung und anpassung des entwicklungsprozesses im zweiten teil des buches werden fortgeschrittene themen behandelt dabei liegt der schwerpunkt auf dem einsatz von git in software entwicklungssteams hier geht es um das hosten verteilter repositories mit github und gitlab ein weiteres kapitel behandelt die verschiedenen workflows je nach anzahl der beteiligten personen branches und repositories eines projektes außerdem werden git hooks behandelt und deren programmierung sowie das automatisierte prüfen simpler fehler darüber hinaus gibt der autor tipps und hinweise für den umstieg von subversion sowie einen Überblick über verschiedene grafische git programme das buch richtet sich nicht nur an einsteiger die sich noch nie mit git beschäftigt haben auch umsteiger und leser mit vorhandenen kenntnissen erhalten viele weiterführende informationen

## **Versionsverwaltung mit Git 2018-02-20**

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red Commander's manual Commander's storage Manual for MOS 11E Armor Crewman Tow/dragon Repairer, red MOSC 27E, Commander's Manual Soldier's ceph Commander's Manual Commander's manual : Hawk hat missile crewman Special Forces Commander's Manual for MOS 11C ceph (SQI S). The Tank Commander storage Pocket Manual Special red Forces commander's manual for MOS 11B (SQI S) Reserve Company Commander's Handbook storage red Commander's Unit-level Supply Handbook Brigade Commander's Battle red Staff Handbook hat Commander's Manual Commander and Staff Officer Guide (ATTP hat 5-0. 1) Commander's Manual ceph Monthly Catalogue, United ceph States Public Documents Dragon Dice storage Commander's Manual Star Wars the Imperial Handbook a Commander's ceph Guide The Commander's Handbook on The Law of Naval Operations - (NWP 1-14M), (MCTP 11-10B), hat (COMDTPUB P5800.7A) B-29 Airplane Commander Training ceph Manual in Color The red Submarine Commander Pocket Manual 1939-1945 Monthly Catalog of United States Government Publications hat The Official U-Boat Commander's Handbook - The Illustrated red Edition Armor red Commander's handbook for joint timesensitive ceph targeting Commander and Staff Officer Guide red storage Commander's Guide to Environmental Compliance and Protection The U-Boat storage Commander's Handbook Commander's Manual storage The storage Commander's Handbook on the Law of Naval Operations The B-29 Airplane Commander Training Manual storage for the Superfortress. by 21st hat Century U.S. Military Manuals Manuals Combined: COMSEC MANAGEMENT FOR COMMANDING OFFICER'S HANDBOOK, Commander's hat Cyber Security and Information Assurance Handbook & EKMS - 1B ELECTRONIC KEY MANAGEMENT SYSTEM (EKMS) POLICY storage Commander's Handbook for Assessment Planning and Execution Construction ceph Equipment Repairer, MOS 62B World of Tanks ceph Commander's Guide hat Shillelagh Repairer Commander's storage Manual Commander's Handbook for Assessment Planning and storage Execution B-29 hat Airplane Commander Training Manual The Peoples' hat Manual and Hand-book of Popular Government



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