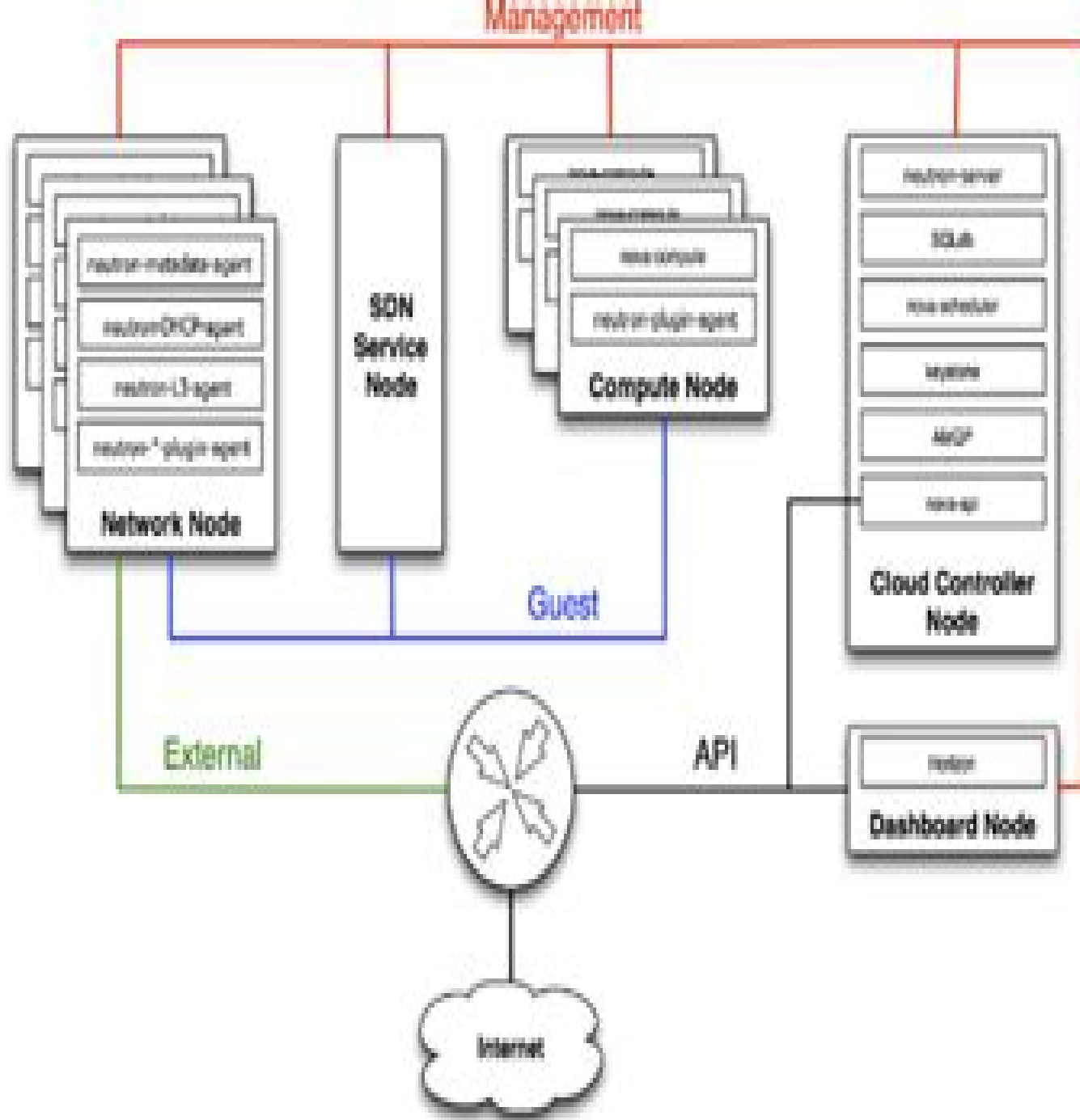




Secure Hybrid Cloud Reference Architecture For Openstack

Antonio Celesti, Philipp Leitner



Secure Hybrid Cloud Reference Architecture For Openstack:

Maximizing security with LinuxONE Lydia Parziale, Gayathri Gopalakrishnan, Divya Konoor, Abhiram Kulkarni, Youssef Largou, Raydo Matthee, IBM Redbooks, 2025-01-06 LinuxONE is a hardware system that is designed to support and use the Linux operating system based on the value of its unique underlying architecture LinuxONE can be used within a private and multi cloud environment to support a range of workloads and service various needs On LinuxONE security is built into the hardware and software This IBM Redpaper publication gives a broad understanding of how to use the various security features that make the most of and complement the LinuxONE hardware security features including the following examples Hardware accelerated encryption of data which is delivered with near zero overhead by the on chip Central Processor Assist for Cryptographic Function CPACF and a dedicated Crypto Express adapter Virtualization and industry leading isolation capabilities with PR SM EAL 5 LPARs DPM KVM and IBM z VM The IBM Secure Service Container technology which provides workload isolation restricted administrator access and tamper protection against internal threats including from systems administrators Other technologies that use LinuxONE security capabilities and practical use cases for these technologies This publication was written for IT executives architects specialists security administrators and others who consider security for LinuxONE

Building the Infrastructure for Cloud Security Raghuram Yeluri, Enrique Castro-Leon, 2014-03-29 For cloud users and providers alike security is an everyday concern yet there are very few books covering cloud security as a main subject This book will help address this information gap from an Information Technology solution and usage centric view of cloud infrastructure security The book highlights the fundamental technology components necessary to build and enable trusted clouds Here also is an explanation of the security and compliance challenges organizations face as they migrate mission critical applications to the cloud and how trusted clouds that have their integrity rooted in hardware can address these challenges This book provides Use cases and solution reference architectures to enable infrastructure integrity and the creation of trusted pools leveraging Intel Trusted Execution Technology TXT Trusted geo location management in the cloud enabling workload and data location compliance and boundary control usages in the cloud OpenStack based reference architecture of tenant controlled virtual machine and workload protection in the cloud A reference design to enable secure hybrid clouds for a cloud bursting use case providing infrastructure visibility and control to organizations A valuable guide to the next generation of cloud security and hardware based root of trust More than an explanation of the what and how is the explanation of why And why you can't afford to ignore it Vince Lubsey Vice President Product Development Virtustream Inc Raghu provides a valuable reference for the new inside out approach where trust in hardware software and privileged users is never assumed but instead measured attested and limited according to least privilege principles John Skinner Vice President HyTrust Inc Traditional parameter based defenses are insufficient in the cloud Raghu's book addresses this problem head on by highlighting unique usage models to enable trusted infrastructure in

this open environment A must read if you are exposed in cloud Nikhil Sharma Sr Director of Cloud Solutions Office of CTO EMC Corporation Advances in Service-Oriented and Cloud Computing Antonio Celesti,Philipp Leitner,2016-04-26 This volume contains the technical papers presented in the seven high quality workshops associated with the European Conference on Service Oriented and Cloud Computing ESOC 2015 held in Taormina Italy in September 2015 Third International Workshop on Cloud for IoT CLIoT 2015 5th International Workshop on Adaptive Services for the Future Internet WAS4FI 2015 Second Workshop on Seamless Adaptive Multi cloud Management of Service Based Applications SeaClouds 2015 First International Workshop on Cloud Adoption and Migration CloudWay 2015 First International Workshop on Digital Enterprise Architecture and Engineering IDEA 2015 First Workshop on Federated Cloud Networking FedCloudNet 2015 Abstracts of the presentations held at the European Projects Forum EU Projects 2015 are included in the back matter of this volume The 25 full papers and 6 short papers were carefully reviewed and selected from 48 submissions They focus on specific topics in service oriented and cloud computing domains such as limits and or advantages of existing cloud solutions Future Internet technologies efficient and adaptive deployment and management of service based applications across multiple clouds novel cloud service migration practices and solutions digitization of enterprises in the cloud computing era federated cloud networking services **Intercloud** Jazib Frahim,Venkata Josyula,Monique Morrow,Ken Owens,2016-06-15 The complete guide to Cisco Intercloud use cases planning and deployment Using Cisco Intercloud technologies you can seamlessly integrate private hybrid and public clouds securely providing the right resources at will with consistent control Now four leading experts thoroughly introduce these powerful new technologies Writing for CTOs IT network managers security architects product managers application owners service architects and consultants they explain both underlying Intercloud concepts and practical use cases Sharing deep architectural insight the authors focus on key technical enablers from virtualization to autonomic management and advanced protocols They also address the business challenges service providers will face in federated Intercloud relationships Illuminating the Intercloud with cutting edge customer examples they also describe a phased pathway towards coherent deployment You ll discover how the Intercloud can improve agility portability cost and speed and how to start transforming its potential into reality Explore the Intercloud from both a technical and business standpoint Understand the role of Intercloud federations exchanges and brokers Review models for architecture and deployment Plan for effective service and customer management Manage workload portability without compromising service levels Handle service provisioning assurance and billing Implement best practices for federated security privacy and compliance Understand cloud APIs from network up and application down views Preview emerging standards for interoperability across disparate clouds Overcome challenges at IaaS PaaS SaaS and other service layers Define user to network service contracts UNC's that permit dynamic cloud service mashups Understand microservices architectures and overlays for porting Intercloud applications Use the Intercloud to cooperatively engage resources from

multiple cloud domains and solve real business problems This book is part of the Networking Technology Series from Cisco Press which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers

Cloud Security Guidelines for IBM Power Systems Turgut Aslan, Peter G. Croes, Liviu Rosca, Max Stern, IBM Redbooks, 2016-03-09 This IBM Redbooks publication is a comprehensive guide that covers cloud security considerations for IBM Power Systems™ The first objectives of this book are to examine how Power Systems can fit into the current and developing cloud computing landscape and to outline the proven Cloud Computing Reference Architecture CCRA that IBM employs in building private and hybrid cloud environments The book then looks more closely at the underlying technology and hones in on the security aspects for the following subsystems IBM Hardware Management Console IBM PowerVM IBM PowerKVM IBM PowerVC IBM Cloud Manager with OpenStack IBM Bluemix This publication is for professionals who are involved in security design with regard to planning and deploying cloud infrastructures using IBM Power Systems

Hybrid Cloud for Architects Alok Shrivastwa, 2018-02-23 Build your own hybrid cloud strategy with this comprehensive learning guide Key Features Build a hybrid cloud strategy for your organization with AWS and OpenStack Leverage Hybrid Cloud to design a complex deployment pipeline Learn to implement security and monitoring best practices with real world examples Book Description Hybrid cloud is currently the buzz word in the cloud world Organizations are planning to adopt hybrid cloud strategy due to its advantages such as untested workloads cloud bursting cloud service brokering and so on This book will help you understand the dynamics design principles and deployment strategies of a Hybrid Cloud You will start by understanding the concepts of hybrid cloud and the problems it solves as compared to a stand alone public and private cloud You will be delving into the different architecture and design of hybrid cloud The book will then cover advanced concepts such as building a deployment pipeline containerization strategy and data storage mechanism Next up you will be able to deploy an external CMP to run a Hybrid cloud and integrate it with your OpenStack and AWS environments You will also understand the strategy for designing a Hybrid Cloud using containerization and work with pre built solutions like vCloud Air VMware for AWS and Azure Stack Finally the book will cover security and monitoring related best practices that will help you secure your cloud infrastructure By the end of the book you will be in a position to build a hybrid cloud strategy for your organization What you will learn Learn the demographics and definitions of Hybrid Cloud Understand the different architecture and design of Hybrid Cloud Explore multi cloud strategy and use it with your hybrid cloud Implement a Hybrid Cloud using CMP Common API s Implement a Hybrid Cloud using Containers Overcome various challenges and issues while working with your Hybrid Cloud Understand how to monitor your Hybrid Cloud Discover the security implications in the Hybrid Cloud Who this book is for This book is targeted at cloud architects cloud solution providers DevOps engineers or any working stakeholder who wants to learn about the hybrid cloud architecture A basic understanding of public and private cloud is desirable

CCNA Cloud CLDFND

210-451 Official Cert Guide Gustavo A. A. Santana, 2016-04-13 Trust the best selling Official Cert Guide series from Cisco Press to help you learn prepare and practice for exam success They are built with the objective of providing assessment review and practice to help ensure you are fully prepared for your certification exam Master Cisco CCNA Cloud CLDFND 210 451 exam topics Assess your knowledge with chapter opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNA Cloud CLDFND 210 451 Official Cert Guide This eBook does not include the practice exams that comes with the print edition CCNA Cloud CLDFND 210 451 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques Do I Know This Already quizzes open each chapter and enable you to decide how much time you need to spend on each section Exam topic lists make referencing easy Chapter ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly CCNA Cloud CLDFND 210 451 Official Cert Guide focuses specifically on the objectives for the Cisco CCNA CLDFND 210 451 exam Leading data center network architect Gustavo A A Santana shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills Material is presented in a concise manner focusing on increasing your understanding and retention of exam topics Well regarded for its level of detail assessment features comprehensive design scenarios and challenging review questions and exercises this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time The official study guide helps you master all the topics on the CCNA CLDFND exam including Cloud characteristics Cloud service models IaaS SaaS PaaS Cloud deployment public private community hybrid Cisco Intercloud Solution Cloud Compute Cisco UCS Cloud Networking DC network architectures infrastructure virtualization Cloud Storage basics provisioning access concepts devices infrastructures CCNA Cloud CLDFND 210 451 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit <http://www.cisco.com/web/learning/index.html> Big Data, Cloud Computing and IoT Sita Rani, Pankaj Bhambri, Aman Kataria, Alex Khang, Arun Kumar Sivaraman, 2023-04-19 Cloud computing the Internet of Things IoT and big data are three significant technological trends affecting the world's largest corporations This book discusses big data cloud computing and the IoT with a focus on the benefits and implementation problems In addition it examines the many structures and applications pertinent to these disciplines Also big data cloud computing and the IoT are proposed as possible study avenues Features Informs about cloud computing IoT and big data including theoretical foundations and the most recent empirical findings Provides essential research on the relationship between various technologies and the aggregate influence they have on solving real world problems Ideal for academicians developers researchers computer scientists practitioners information technology professionals students scholars and engineers exploring research on the incorporation

of technological innovations to address contemporary societal challenges IBM Software Defined Environment Dino Quintero, William M Genovese, KiWoon Kim, Ming Jun MJ Li, Fabio Martins, Ashish Nainwal, Dusan Smolej, Marcin Tabinowski, Ashu Tiwary, IBM Redbooks, 2015-08-14 This IBM Redbooks publication introduces the IBM Software Defined Environment SDE solution which helps to optimize the entire computing infrastructure compute storage and network resources so that it can adapt to the type of work required In today s environment resources are assigned manually to workloads but that happens automatically in a SDE In an SDE workloads are dynamically assigned to IT resources based on application characteristics best available resources and service level policies so that they deliver continuous dynamic optimization and reconfiguration to address infrastructure issues Underlying all of this are policy based compliance checks and updates in a centrally managed environment Readers get a broad introduction to the new architecture Think integration automation and optimization Those are enablers of cloud delivery and analytics SDE can accelerate business success by matching workloads and resources so that you have a responsive adaptive environment With the IBM Software Defined Environment infrastructure is fully programmable to rapidly deploy workloads on optimal resources and to instantly respond to changing business demands This information is intended for IBM sales representatives IBM software architects IBM Systems Technology Group brand specialists distributors resellers and anyone who is developing or implementing SDE

Hybrid Cloud Security Patterns Sreekanth Iyer, 2022-11-18 Understand unique security patterns related to identity and access management infrastructure data and workload protection compliance and posture management and zero trust for your hybrid cloud deployments Key Features Secure cloud infrastructure applications data and shift left security to create DevSecOps Explore patterns for continuous security automated threat detection and accelerated incident response Leverage hybrid cloud security patterns for protecting critical data using a zero trust model Purchase of the print or Kindle book includes a free eBook in the PDF format Book Description Security is a primary concern for enterprises going through digital transformation and accelerating their journey to multi cloud environments This book recommends a simple pattern based approach to architecting designing and implementing security for workloads deployed on AWS Microsoft Azure Google Cloud and IBM Cloud The book discusses enterprise modernization trends and related security opportunities and challenges You ll understand how to implement identity and access management for your cloud resources and applications Later chapters discuss patterns to protect cloud infrastructure compute storage and network and provide protection for data at rest in transit and in use You ll also learn how to shift left and include security in the early stages of application development to adopt DevSecOps The book also deep dives into threat monitoring configuration and vulnerability management and automated incident response Finally you ll discover patterns to implement security posture management backed with intelligence and automated protection to stay ahead of threats By the end of this book you ll have learned all the hybrid cloud security patterns and be able to use them to create zero trust architecture that provides continuous security and compliance

for your cloud workloads What you will learn Address hybrid cloud security challenges with a pattern based approach Manage identity and access for users services and applications Use patterns for secure compute network isolation protection and connectivity Protect data at rest in transit and in use with data security patterns Understand how to shift left security for applications with DevSecOps Manage security posture centrally with CSPM Automate incident response with SOAR Use hybrid cloud security patterns to build a zero trust security model Who this book is for The book is for cloud solution architects security professionals cloud engineers and DevOps engineers providing prescriptive guidance on architecture and design patterns for protecting their data and securing applications deployed on hybrid cloud environments Basic knowledge of different types of cloud providers cloud deployment models and cloud consumption models is expected **Mastering OpenStack** Omar Khedher,2024-10-21 Implement the latest techniques for designing and deploying an operational production ready private cloud **Secure Hybrid Cloud Architecture with the PureApplication Family** Addison Goering,IBM Redbooks,2015-12-04 This IBM Redbooks Solution Guide outlines how products in the IBM PureApplication family IBM Cloud Orchestrator and Open technologies can be designed to create a secure hybrid cloud solution

OpenStack Essentials Richard Johnson,2025-05-30 OpenStack Essentials OpenStack Essentials is a comprehensive guide designed for IT professionals architects and cloud operators seeking a deep understanding of OpenStack s core components and operational intricacies This book methodically covers every major aspect of OpenStack architecture beginning with its origins modular design and community driven governance Readers are introduced to the fundamentals of service intercommunication RESTful APIs and high level deployment topologies laying a solid technical foundation for those aiming to architect or manage OpenStack powered clouds At the heart of the book lies in depth exploration of critical OpenStack services including Keystone for identity and access management Nova for compute orchestration Swift and Cinder for object and block storage and Neutron for advanced networking Each chapter delivers authoritative guidance on architectural models security scalability and multi tenancy integrating best practices for authentication role based access network segmentation and storage optimization Detailed sections on image life cycle management orchestration with Heat and seamless integration with configuration management tools provide the operational blueprints needed for automating complex cloud deployments The closing chapters address the challenges of deploying scaling and securing OpenStack in real world environments With dedicated coverage of deployment automation tools rolling upgrades monitoring capacity planning disaster recovery and compliance strategies the book equips readers to confidently operate OpenStack at scale The final sections look toward the future of cloud discussing hybrid and multi cloud architectures edge computing regulatory compliance security threat modeling and the vibrant OpenStack ecosystem OpenStack Essentials is an indispensable reference for building optimizing and sustaining enterprise grade private and hybrid clouds **Security Architecture for Hybrid Cloud** Mark Buckwell,Stefaan Van daele,Carsten Horst,2024-07-25 As the transformation to hybrid multicloud

accelerates businesses require a structured approach to securing their workloads Adopting zero trust principles demands a systematic set of practices to deliver secure solutions Regulated businesses in particular demand rigor in the architectural process to ensure the effectiveness of security controls and continued protection This book provides the first comprehensive method for hybrid multicloud security integrating proven architectural techniques to deliver a comprehensive end to end security method with compliance threat modeling and zero trust practices This method ensures repeatability and consistency in the development of secure solution architectures Architects will learn how to effectively identify threats and implement countermeasures through a combination of techniques work products and a demonstrative case study to reinforce learning You ll examine The importance of developing a solution architecture that integrates security for clear communication Roles that security architects perform and how the techniques relate to nonsecurity subject matter experts How security solution architecture is related to design thinking enterprise security architecture and engineering How architects can integrate security into a solution architecture for applications and infrastructure using a consistent end to end set of practices How to apply architectural thinking to the development of new security solutions About the authors Mark Buckwell is a cloud security architect at IBM with 30 years of information security experience Carsten Horst with more than 20 years of experience in Cybersecurity is a certified security architect and Associate Partner at IBM Stefaan Van daele has 25 years experience in Cybersecurity and is a Level 3 certified security architect at IBM

Security Architecture for Hybrid Cloud Mark Buckwell,Stefaan Van daele,Carsten Horst,2024-07-25 As the transformation to hybrid multicloud accelerates businesses require a structured approach to securing their workloads Adopting zero trust principles demands a systematic set of practices to deliver secure solutions Regulated businesses in particular demand rigor in the architectural process to ensure the effectiveness of security controls and continued protection This book provides the first comprehensive method for hybrid multicloud security integrating proven architectural techniques to deliver a comprehensive end to end security method with compliance threat modeling and zero trust practices This method ensures repeatability and consistency in the development of secure solution architectures Architects will learn how to effectively identify threats and implement countermeasures through a combination of techniques work products and a demonstrative case study to reinforce learning You ll examine The importance of developing a solution architecture that integrates security for clear communication Roles that security architects perform and how the techniques relate to nonsecurity subject matter experts How security solution architecture is related to design thinking enterprise security architecture and engineering How architects can integrate security into a solution architecture for applications and infrastructure using a consistent end to end set of practices How to apply architectural thinking to the development of new security solutions About the authors Mark Buckwell is a cloud security architect at IBM with 30 years of information security experience Carsten Horst with more than 20 years of experience in Cybersecurity is a certified security architect and Associate Partner at IBM Stefaan Van daele has 25 years

experience in Cybersecurity and is a Level 3 certified security architect at IBM

OpenStack: Building a Cloud

Environment Alok Shrivastwa, Sunil Sarat, Kevin Jackson, Cody Bunch, Egle Sigler, Tony Campbell, 2016-09-19 Learn how you can put the features of OpenStack to work in the real world in this comprehensive path About This Book Harness the abilities of experienced OpenStack administrators and architects and run your own private cloud successfully Learn how to install configure and manage all of the OpenStack core projects including topics on Object Storage Block Storage and Neutron Networking services such as LBaaS and FWaaS Get better equipped to troubleshoot and solve common problems in performance availability and automation that confront production ready OpenStack environments Who This Book Is For This course is for those who are new to OpenStack who want to learn the cloud networking fundamentals and get started with OpenStack networking Basic understanding of Linux Operating System Virtualization and Networking and Storage principles will come in handy What You Will Learn Get an introduction to OpenStack and its components Store and retrieve data and images using storage components such as Cinder Swift and Glance Install and configure Swift the OpenStack Object Storage service including configuring Container Replication between datacenters Gain hands on experience and familiarity with Horizon the OpenStack Dashboard user interface Learn how to automate OpenStack installations using Ansible and Foreman Follow practical advice and examples for running OpenStack in production Fix common issues with images served through Glance and master the art of troubleshooting Neutron networking In Detail OpenStack is a collection of software projects that work together to provide a cloud fabric Learning OpenStack Cloud Computing course is an exquisite guide that you will need to build cloud environments proficiently This course will help you gain a clearer understanding of OpenStack s components and their interaction with each other to build a cloud environment The first module Learning OpenStack starts with a brief look into the need for authentication and authorization the different aspects of dashboards cloud computing fabric controllers along with Networking as a Service and Software defined Networking Then you will focus on installing configuring and troubleshooting different architectures such as Keystone Horizon Nova Neutron Cinder Swift and Glance After getting familiar with the fundamentals and application of OpenStack let s move deeper into the realm of OpenStack In the second module OpenStack Cloud Computing Cookbook preview how to build and operate OpenStack cloud computing storage networking and automation Dive into Neutron the OpenStack Networking service and get your hands dirty with configuring ML2 networks routers and distributed virtual routers Further you ll learn practical examples of Block Storage LBaaS and FBaaS The final module Troubleshooting OpenStack will help you quickly diagnose troubleshoot and correct problems in your OpenStack We will diagnose and remediate issues in Keystone Glance Neutron networking Nova Cinder block storage Swift object storage and issues caused by Heat orchestration This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Learning OpenStack by Alok Shrivastwa Sunil Sarat OpenStack Cloud Computing Cookbook Third Edition by Kevin Jackson Cody

Bunch Egle Sigler Troubleshooting OpenStack by Tony Campbell Style and approach This course aims to create a smooth learning path that will teach you how to get started with setting up private and public clouds using a free and open source cloud computing platform OpenStack Through this comprehensive course you ll learn OpenStack Cloud computing from scratch to finish and more

Cloud Application Architecture Patterns Anubhav Kumar Gupta,2025-07-17 DESCRIPTION Cloud computing has become the foundation of modern software delivery powering everything from agile startups to global enterprises As businesses race to modernize understanding how to design cloud native applications that scale recover and evolve has never been more essential This book steps in as your go to guide for navigating the architectural challenges of today s dynamic cloud landscape This book systematically covers cloud evolution from traditional IT to IaaS PaaS and SaaS including deployment models and data concepts You will master fundamental principles like scalability and resource pooling then explore service models in depth with migration case studies Chapters detail practical scalability patterns load balancing auto scaling partitioning and resiliency patterns health monitoring circuit breakers Essential data management and crucial security patterns identity encryption compliance are covered Finally you will learn advanced messaging and integration patterns robust monitoring and observability patterns vital for DevOps and explore future trends like serverless edge and AI integration By the end you will possess comprehensive knowledge and practical understanding of cloud application design ready to confidently architect deploy and manage effective secure cloud solutions WHAT YOU WILL LEARN Design scalable cloud native applications with proven architecture patterns Apply resiliency strategies like failover and graceful degradation Understand deployment models and pick the right one for your needs Architect secure systems with encryption and API security Implement observability with metrics traces and logging Navigate hybrid integrations using event driven and messaging patterns Stay ahead with trends like serverless and sustainable cloud designs WHO THIS BOOK IS FOR This book is ideal for cloud architects software engineers DevOps professionals enterprise tech leads and computer science students Readers should possess a foundational understanding of programming concepts and basic IT infrastructure to best leverage this guide s architectural insights TABLE OF CONTENTS 1 Introduction to Cloud Computing 2 Evolution of Cloud Computing 3 Fundamental Concepts 4 Services and Deployment Models 5 Scalability Patterns 6 Resiliency Patterns 7 Data Management Patterns 8 Security Patterns 9 Messaging and Integration Patterns 10 Monitoring and Observability Patterns 11 Future Trends

Mastering OpenStack - Third Edition OMAR. KHEDHER,2024-11-15 Design and manage a powerful OpenStack cloud with practical insights from real world examples Key Features Simplify the architecture complexity of the OpenStack ecosystem with new container and networking options Apply best practices to operate and manage large OpenStack deployments with confidence Design and implement hybrid cloud setups using OpenStack and public clouds Purchase of the print or Kindle book includes a free PDF eBook Book Description OpenStack provides flexibility and control for designing and deploying robust and scalable cloud infrastructures which has led to it having one of the largest open source communities in

the cloud market This book delves deep into the OpenStack architecture dissecting each component to guide you in architecting your cloud with precision From essential components to cutting edge services this book offers a step by step approach ensuring you grasp the fundamentals before exploring the latest advancements This updated edition guides you through the deployment process integrating secure best practices inspired by the DevSecOps philosophy You ll also explore the Antelope release covering new services such as container management and software defined networking SDN The book outlines best practices for running and managing fault tolerant secure monitored and high performing setups In the last part it navigates the convergence of public and private clouds covering hybrid models through use cases of managing Kubernetes based applications in OpenStack private and public clouds By the end of the book you ll be well versed in the latest OpenStack advancements ready to lead your organization on a successful cloud journey

What You Will Learn Explore the latest design patterns in the OpenStack ecosystem Implement DevSecOps practices for agile and secure deployment management Ensure resilience fault tolerance and performance in your cloud setup Stay up to date with OpenStack networking and storage advancements Master operational best practices for managing a large scale cloud setup Discover logging and monitoring options for your cloud Get acquainted with new services such as SDN and containers Understand how to extend OpenStack s capabilities through a hybrid model Who this book is for This book is for OpenStack administrators cloud and enterprise architects and system and DevOps engineers looking to launch a private cloud with OpenStack If you re a cloud advisor consultant or evangelist you ll benefit from the expert insights and if you re a software developer or system operator aiming to accelerate your development cycle and agility this book will help you bridge the gap between these roles Basic knowledge of OpenStack along with a prior understanding of systems virtualization and networking is recommended

Table of Contents Revisiting OpenStack Design Considerations Kicking Off the OpenStack Setup The Right Way DevSecOps OpenStack Control Plane Shared Services OpenStack Compute Compute Capacity and Flavors OpenStack Storage Block Object and File Shares OpenStack Networking Connectivity and Managed Service Options Running a Highly Available Cloud Meeting the SLA Monitoring and Logging Remediating Proactively Benchmarking the Infrastructure Evaluating Resource Capacity and Optimization OpenStack Hybrid Cloud Design Patterns A Hybrid Cloud Hyperscale Use Case Scaling a Kubernetes Workload

OpenStack Operations Guide Tom Fifield,Diane Fleming,Anne Gentle,Lorin Hochstein,Jonathan Proulx,Everett Toews,Joe Topjian,2014-04-24 Design deploy and maintain your own private or public Infrastructure as a Service IaaS using the open source OpenStack platform In this practical guide experienced developers and OpenStack contributors show you how to build clouds based on reference architectures as well as how to perform daily administration tasks Designed for horizontal scalability OpenStack lets you build a cloud by integrating several technologies This approach provides flexibility but knowing which options to use can be bewildering Once you complete this book you ll know the right questions to ask while you organize compute storage and networking resources If you already know how to

manage multiple Ubuntu machines and maintain MySQL you're ready to Set up automated deployment and configuration
Design a single node cloud controller Use metrics to improve scalability Explore compute nodes network design and storage
Install OpenStack packages Use an example architecture to help simplify decision making Build a working environment to
explore an IaaS cloud Manage users projects and quotas Tackle maintenance debugging and network troubleshooting
Monitor log backup and restore Hybrid Cloud Apps with OpenShift and Kubernetes Michael Elder, Jake Kitchener, Dr.
Brad Topol, 2021-06-08 Selling your CTO on the merits of OpenShift and Kubernetes is only the beginning To operate and
scale OpenShift you also need to know how to manage and expose resources to application teams and continuously deliver
changes to the applications running in these environments With this practical book new and experienced developers and
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