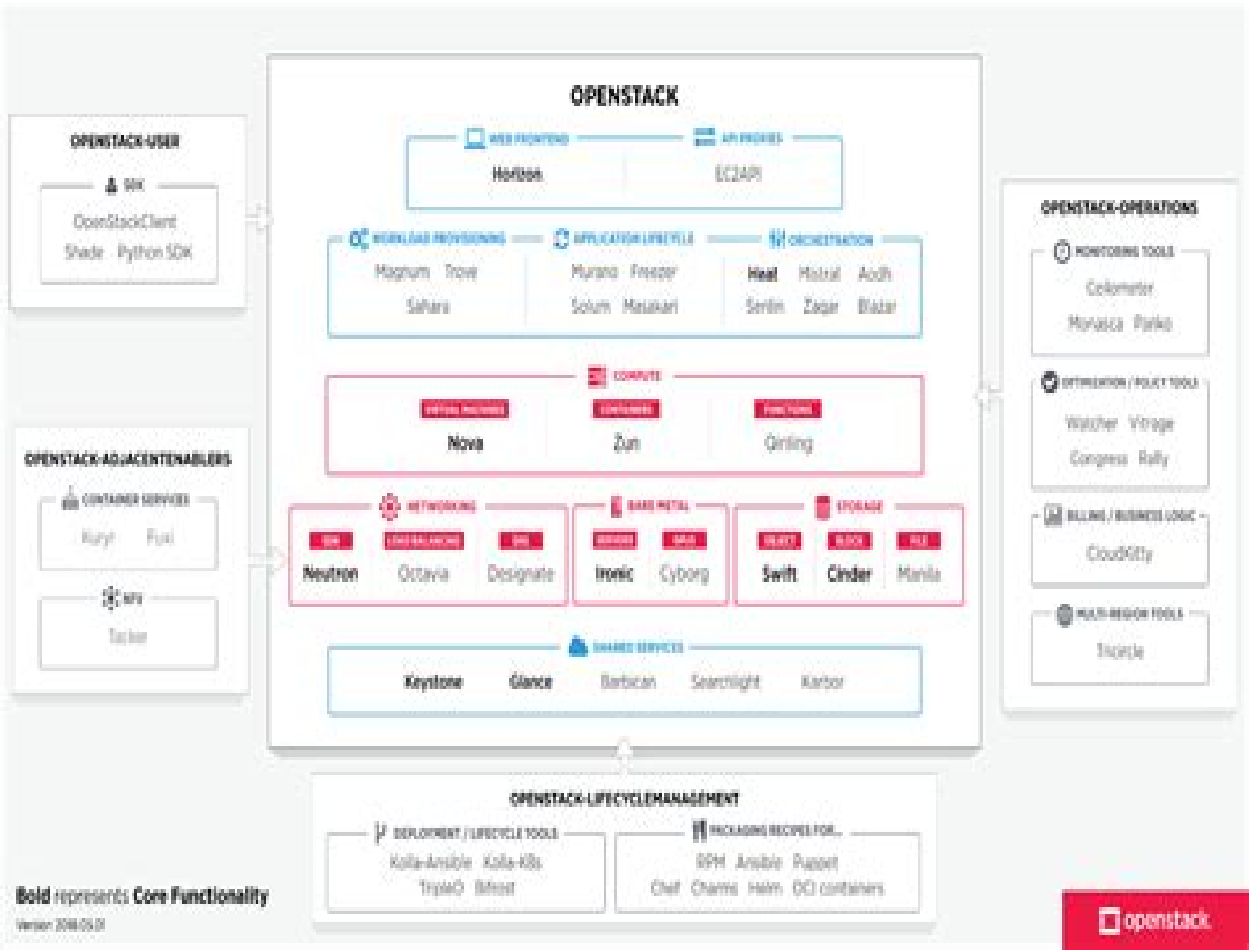
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Kolla-Ansible Kolla-K8s
TripleO Bifrost
PACKAGING RECIPES FOR...
RPM Ansible Puppet
Chef Charms Helm OCI containers
Bold represents Core Functionality
Version 2016.10.01
openstack

# Openstack Api Documentation

Scott Vetter,Javier Bazan Lazcano,Martin Parrella,IBM Redbooks

**Openstack Api Documentation:**

Docs Like Code Anne Gentle,2017-09-09 Looking for a way to invigorate your technical writing team and grow that expertise to include developers designers and writers of all backgrounds When you treat docs like code you multiply everyone s efforts and streamline processes through collaboration automation and innovation Second edition now available with updates and more information about version control for documents and continuous publishing *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

*Deploying OpenStack* Ken Pepple,2011-07-25 OpenStack was created with the audacious goal of being the ubiquitous software choice for building public and private cloud infrastructures In just over a year it s become the most talked about project in open source This concise book introduces OpenStack s general design and primary software components in detail and shows you how to start using it to build cloud infrastructures If you re a developer technologist or system administrator familiar with cloud offerings such as Rackspace Cloud or Amazon Web Services Deploying OpenStack shows you how to obtain and deploy OpenStack software in a few controlled scenarios Learn about OpenStack Compute known as Nova OpenStack Object Store Swift and OpenStack Image Service Glance Understand common pitfalls in architecting deploying and implementing your cloud infrastructure with OpenStack Determine which version of the OpenStack code base best suits your deployment needs Define your deployment scenario and finalize key design choices Install Nova on a single node with either the StackOps distro or an Ubuntu package Be familiar with important configuration options and important administrative commands *OpenStack for Architects* Michael Solberg,Ben Silverman,2017-02-06 Design and implement successful private clouds with OpenStack About This Book Explore the various design choices available for cloud architects within an OpenStack deployment Craft an OpenStack architecture and deployment pipeline to meet the unique needs of your organization Create a product roadmap for Infrastructure as a Service in your organization using this hands on guide Who

This Book Is For This book is written especially for those who will design OpenStack clouds and lead their implementation These people are typically cloud architects but may also be in product management systems engineering or enterprise architecture What You Will Learn Familiarize yourself with the components of OpenStack Build an increasingly complex OpenStack lab deployment Write compelling documentation for the architecture teams within your organization Apply Agile configuration management techniques to deploy OpenStack Integrate OpenStack with your organization s identity management provisioning and billing systems Configure a robust virtual environment for users to interact with Use enterprise security guidelines for your OpenStack deployment Create a product roadmap that delivers functionality quickly to the users of your platform In Detail Over the last five years hundreds of organizations have successfully implemented Infrastructure as a Service IaaS platforms based on OpenStack The huge amount of investment from these organizations industry giants such as IBM and HP as well as open source leaders such as Red Hat have led analysts to label OpenStack as the most important open source technology since the Linux operating system Because of its ambitious scope OpenStack is a complex and fast evolving open source project that requires a diverse skill set to design and implement it This guide leads you through each of the major decision points that you ll face while architecting an OpenStack private cloud for your organization At each point we offer you advice based on the experience we ve gained from designing and leading successful OpenStack projects in a wide range of industries Each chapter also includes lab material that gives you a chance to install and configure the technologies used to build production quality OpenStack clouds Most importantly we focus on ensuring that your OpenStack project meets the needs of your organization which will guarantee a successful rollout Style and approach This is practical hands on guide to implementing OpenStack clouds where each topic is illustrated with real world examples and then the technical points are proven in the lab Conversation and Community Anne Gentle,2012-07-15 Anne Gentle s Conversation and Community has become the go to reference for social media and technical communication Her clear eyed survey of the social media landscape has been adopted by many universities and is widely used by technical communicators Now in this second edition she has updated and expanded her book adding chapters on building a content strategy analyzing web techniques and developing an open source strategy With more interviews and case studies this is your guide to the new world of technical communication and social media Inside the Book Towards the Future of Documentation Defining a Writer s Role with the Social Web Community and Documentation Commenting and Connecting with Users Wikis as Documentation Systems Finding Your Voice Content Strategy for Community Documentation NEW Chapter Analyzing and Measuring Web Techniques NEW Chapter Open Source Documentation NEW Chapter Concepts and Tools of the Social Web Glossary Expanded Bibliography and Index OpenStack Cloud Application Development Scott Adkins,John Belamaric,Vincent Giersch,Denys Makogon,Jason E. Robinson,2015-11-17 Leverage the power of OpenStack to develop scalable applications with no vendor lock in OpenStack Cloud Application Development is a fast paced professional

book for OpenStack developers delivering comprehensive guidance without wasting time on development fundamentals Written by experts in the OpenStack community from Infoblox Gigaspaces GoDaddy and Comcast this book shows you how to work effectively and efficiently within the OpenStack platform to develop large scalable applications without worrying about underlying hardware Follow along with an OpenStack build that illustrates how and where each technology comes into play as you learn expert tips and best practices that make your product stronger Coverage includes OpenStack service primitives networking within the OpenStack Ecosystem deployment of Virtualized Network Functions for Enterprises containers data protection and much more If you need to get on board quickly this professional book is your ideal roadmap to OpenStack development Understand all aspects of OpenStack technologies Follow an example build to drill down into critical elements Learn the OpenStack best practices and insider tips Leverage the full capability of IaaS at a professional pace OpenStack is supported by dozens of major technology companies compatible with Amazon Web Services and can be used alongside or on top of VMWare vSphere and other similar technologies It frees developers from the confines of hardware and vendor lock in while providing a reliable fast and easy platform for developing scalable cloud applications OpenStack Cloud Application Development is an expert led guide to getting the most out of OpenStack designed specifically for the professional developer

*Adaptive Resource Management and Scheduling for Cloud Computing* Florin Pop,Maria Potop-Butucaru,2014-11-25 This book constitutes the thoroughly refereed post conference proceedings of the First International Workshop on Adaptive Resource Management and Scheduling for Cloud Computing ARMS CC 2014 held in Conjunction with ACM Symposium on Principles of Distributed Computing PODC 2014 in Paris France in July 2014 The 14 revised full papers including 2 invited talks were carefully reviewed and selected from 29 submissions and cover topics such as scheduling methods and algorithms services and applications fundamental models for resource management in the cloud **Cloud Computing** Igor Faynberg,Hui-Lan Lu,Dor Skuler,2016-01-19 Cloud Computing Business Trends and Technologies provides a broad introduction to Cloud computing technologies and their applications to IT and telecommunications businesses i e the network function virtualization NFV To this end the book is expected to serve as a textbook in a graduate course on Cloud computing The book examines the business cases and then concentrates on the technologies necessary for supporting them In the process the book addresses the principles of as well as the known problems with the underlying technologies such as virtualization data communications network and operations management security and identity management It introduces through open source case studies based on OpenStack an extensive illustration of lifecycle management The book also looks at the existing and emerging standards demonstrating their respective relation to each topic Overall this is an authoritative textbook on this emerging and still developing discipline which Guides the reader through basic concepts to current practices to state of the art applications Considers technical standards bodies involved in Cloud computing standardization Is written by innovation experts in operating systems and data communications each with over 20 years experience in business

research and teaching *OpenStack for Architects* Ben Silverman,Michael Solberg,2018-05-31 Implement successful private clouds with OpenStack Key Features Gain hands on experience in designing a private cloud for all infrastructures Create a robust virtual environment for your organization Design implement and deploy an OpenStack based cloud based on the Queens release Book Description Over the past six years hundreds of organizations have successfully implemented Infrastructure as a Service IaaS platforms based on OpenStack The huge amount of investment from these organizations including industry giants such as IBM and HP as well as open source leaders such as Red Hat Canonical and SUSE has led analysts to label OpenStack as the most important open source technology since the Linux operating system Due to its ambitious scope OpenStack is a complex and fast evolving open source project that requires a diverse skill set to design and implement it OpenStack for Architects leads you through the major decision points that you ll face while architecting an OpenStack private cloud for your organization This book will address the recent changes made in the latest OpenStack release i e Queens and will also deal with advanced concepts such as containerization NVF and security At each point the authors offer you advice based on the experience they ve gained from designing and leading successful OpenStack projects in a wide range of industries Each chapter also includes lab material that gives you a chance to install and configure the technologies used to build production quality OpenStack clouds Most importantly the book focuses on ensuring that your OpenStack project meets the needs of your organization which will guarantee a successful rollout What you will learn Learn the overall structure of an OpenStack deployment Craft an OpenStack deployment process which fits within your organization Apply Agile Development methodologies to engineer and operate OpenStack clouds Build a product roadmap for Infrastructure as a Service based on OpenStack Make use of containers to increase the manageability and resiliency of applications running in and on OpenStack Use enterprise security guidelines for your OpenStack deployment Who this book is for OpenStack for Architects is for Cloud architects who are responsible to design and implement a private cloud with OpenStack System engineers and enterprise architects will also find this book useful Basic understanding of core OpenStack services as well as some working experience of concepts is recommended **Open Source Software: Mobile Open Source Technologies** Luis Corral,Alberto Sillitti,Giancarlo Succi,Jelena Vlasenko,Anthony I. Wasserman,2014-04-15 This book constitutes the refereed proceedings of the 10th International IFIP WG 2 13 Conference on Open Source Systems OSS 2014 held in San Jos Costa Rica in May 2014 The 16 revised full papers and 16 short papers presented together with 5 poster papers were carefully reviewed and selected from 61 submissions They have been organized in the following topical sections open source visualization and reporting open source in business modeling open source in mobile and web technologies open source in education and research development processes of open source products testing and assurance of open source projects and global impact on open source communities and development The last section consists of five case studies and demonstrations of open source projects *A Practical Approach to Open Source Intelligence (OSINT) - Volume 1* Akashdeep

Bhardwaj,2025-08-12 This book delves into the fascinating world of Open Source Intelligence OSINT empowering you to leverage the vast ocean of publicly available information to gain valuable insights and intelligence The reader can explore the fundamentals of OSINT including its history ethical considerations and key principles They can learn how to protect your online privacy and enhance your web browsing security They can master essential OSINT skills such as navigating the underground internet employing advanced search engine techniques and extracting intelligence from various sources like email addresses and social media This book helps the reader discover the power of Imagery Intelligence and learn how to analyze photographs and videos to uncover hidden details It also shows how to track satellites and aircraft and provides insights into global trade and security by investigating marine vessel road and railway movements This book provides hands on exercises real world examples and practical guidance to help you uncover hidden truths gain a competitive edge and enhance your security Whether you re a student researcher journalist or simply curious about the power of information this book will equip you with the knowledge and skills to harness the potential of OSINT and navigate the digital landscape with confidence **Cloud Security Auditing** Suryadipta Majumdar,Taous Madi,Yushun Wang,Azadeh Tabiban,Momen Oqaily,Amir Alimohammadifar,Yosr Jarraya,Makan Pourzandi,Lingyu Wang,Mourad Debbabi,2019-08-28 This book provides a comprehensive review of the most up to date research related to cloud security auditing and discusses auditing the cloud infrastructure from the structural point of view while focusing on virtualization related security properties and consistency between multiple control layers It presents an off line automated framework for auditing consistent isolation between virtual networks in OpenStack managed cloud spanning over overlay and layer 2 by considering both cloud layers views A runtime security auditing framework for the cloud with special focus on the user level including common access control and authentication mechanisms e g RBAC ABAC and SSO is covered as well This book also discusses a learning based proactive security auditing system which extracts probabilistic dependencies between runtime events and applies such dependencies to proactively audit and prevent security violations resulting from critical events Finally this book elaborates the design and implementation of a middleware as a pluggable interface to OpenStack for intercepting and verifying the legitimacy of user requests at runtime Many companies nowadays leverage cloud services for conducting major business operations e g Web service inventory management customer service etc However the fear of losing control and governance still persists due to the inherent lack of transparency and trust in clouds The complex design and implementation of cloud infrastructures may cause numerous vulnerabilities and misconfigurations while the unique properties of clouds elastic self service multi tenancy can bring novel security challenges In this book the authors discuss how state of the art security auditing solutions may help increase cloud tenants trust in the service providers by providing assurance on the compliance with the applicable laws regulations policies and standards This book introduces the latest research results on both traditional retroactive auditing and novel runtime and proactive auditing techniques to serve different stakeholders in the cloud This book covers security

threats from different cloud abstraction levels and discusses a wide range of security properties related to cloud specific standards e g Cloud Control Matrix CCM and ISO 27017 It also elaborates on the integration of security auditing solutions into real world cloud management platforms e g OpenStack Amazon AWS and Google GCP This book targets industrial scientists who are working on cloud or security related topics as well as security practitioners administrators cloud providers and operators Researchers and advanced level students studying and working in computer science practically in cloud security will also be interested in this book *A Deployment Guide for IBM Spectrum Scale Unified File and Object Storage* Dean Hildebrand,Sandeep Bazar,Larry Coyne,Deepak Ghuge,Lata Jagwani,Simon Lorenz,Varun Mittal,Brian Nelson,Bill Owen,Smita Raut,IBM Redbooks,2017-05-24 Because of the explosion of unstructured data that is generated by individuals and organizations a new storage paradigm that is called object storage has been developed Object storage stores data in a flat namespace that scales to trillions of objects The design of object storage also simplifies how users access data supporting new types of applications and allowing users to access data by using various methods including mobile devices and web applications Data distribution and management are also simplified allowing greater collaboration across the globe OpenStack Swift is an emerging open source object storage software platform that is widely used for cloud storage IBM Spectrum Scale which is based on IBM General Parallel File System IBM GPFSTM technology is a high performance and proven product that is used to store data for thousands of mission critical commercial installations worldwide Throughout this IBM RedpaperTM publication IBM SpectrumTM Scale is used to refer to GPFS The examples in this paper are based on IBM Spectrum ScaleTM V4 2 2 IBM Spectrum Scale also automates common storage management tasks such as tiering and archiving at scale Together IBM Spectrum Scale and OpenStack Swift provide an enterprise class object storage solution that efficiently stores distributes and retains critical data This paper provides instructions about setting up and configuring IBM Spectrum Scale Object Storage that is based on OpenStack Swift It also provides an initial set of preferred practices that ensure optimal performance and reliability This paper is intended for administrators who are familiar with IBM Spectrum Scale and OpenStack Swift components **Grid and Cloud Computing: Concepts and Practical Applications** F. Carminati,L. Betev,A. Grigoras,2016-05-31 The distributed computing infrastructure known as the Grid has undoubtedly been one of the most successful science oriented large scale IT projects of the past 20 years It is now a fully operational international entity encompassing several hundred computing sites on all continents and giving access to hundreds of thousands of CPU central processing unit cores and hundreds of petabytes of storage all connected by robust national and international scientific networks It has evolved to become the main computational platform many scientific communities This book presents lectures from the Enrico Fermi International School of Physics summer school Grid and Cloud computing Concepts and Practical Applications held in Varenna Italy in July 2014 The school aimed to cover the conceptual and practical aspects of both the Grid and Cloud computing The proceedings included here are divided into eight chapters with chapters 1 2 3 and 8 covering

general applications of Grid and Cloud computing in various scientific fields while chapters 4 5 6 and 7 discuss specific technical areas of Grid and Cloud structures The book will be of interest to all those whose work involves the use of the Grid or Cloud computing *IBM PowerVC Version 1.3.2 Introduction and Configuration* Scott Vetter,Javier Bazan Lazcano,Martin Parrella,IBM Redbooks,2017-06-12 IBM Power Virtualization Center IBM PowerVCTM is an advanced enterprise virtualization management offering for IBM Power SystemsTM This IBM Redbooks publication introduces IBM PowerVC and helps you understand its functions planning installation and setup IBM PowerVC Version 1 3 2 supports both large and small deployments either by managing IBM PowerVM that is controlled by the Hardware Management Console HMC by IBM PowerVM NovaLink or by managing PowerKVM directly With this capability IBM PowerVC can manage IBM AIX IBM i and Linux workloads that run on IBM POWER hardware IBM PowerVC is available as a Standard Edition or as a Cloud PowerVC Manager edition IBM PowerVC includes the following features and benefits Virtual image capture deployment and management Policy based virtual machine VM placement to improve use Management of real time optimization and VM resilience to increase productivity VM Mobility with placement policies to reduce the burden on IT staff in a simple to install and easy to use graphical user interface GUI Role based security policies to ensure a secure environment for common tasks The ability to enable an administrator to enable Dynamic Resource Optimization on a schedule IBM Cloud PowerVC Manager includes all of the IBM PowerVC Standard Edition features and adds A Self service portal that allows the provisioning of new VMs without direct system administrator intervention There is an option for policy approvals for the requests that are received from the self service portal Pre built deploy templates that are set up by the cloud administrator that simplify the deployment of VMs by the cloud user Cloud management policies that simplify management of cloud deployments Metering data that can be used for chargeback This publication is for experienced users of IBM PowerVM and other virtualization solutions who want to understand and implement the next generation of enterprise virtualization management for Power Systems Unless stated otherwise the content of this publication refers to IBM PowerVC Version 1 3 2 **Mastering Python Networking** Eric Chou,2017-06-28 Become an expert in implementing advanced network related tasks with Python Key Features Build the skills to perform all networking tasks using Python with ease Use Python for network device automation DevOps and software defined networking Get practical guidance to networking with Python Book DescriptionThis book begins with a review of the TCP IP protocol suite and a refresher of the core elements of the Python language Next you will start using Python and supported libraries to automate network tasks from the current major network vendors We will look at automating traditional network devices based on the command line interface as well as newer devices with API support with hands on labs We will then learn the concepts and practical use cases of the Ansible framework in order to achieve your network goals We will then move on to using Python for DevOps starting with using open source tools to test secure and analyze your network Then we will focus on network monitoring and visualization We will

learn how to retrieve network information using a polling mechanism ow based monitoring and visualizing the data programmatically Next we will learn how to use the Python framework to build your own customized network web services In the last module you will use Python for SDN where you will use a Python based controller with OpenFlow in a hands on lab to learn its concepts and applications We will compare and contrast OpenFlow OpenStack OpenDaylight and NFV Finally you will use everything you ve learned in the book to construct a migration plan to go from a legacy to a scalable SDN based network What you will learn Review all the fundamentals of Python and the TCP IP suite Use Python to execute commands when the device does not support the API or programmatic interaction with the device Implement automation techniques by integrating Python with Cisco Juniper and Arista eAPI Integrate Ansible using Python to control Cisco Juniper and Arista networks Achieve network security with Python Build Flask based web service APIs with Python Construct a Python based migration plan from a legacy to scalable SDN based network Who this book is for If you are a network engineer or a programmer who wants to use Python for networking then this book is for you A basic familiarity with networking related concepts such as TCP IP and a familiarity with Python programming will be useful **Service-Oriented Computing** Quan Z. Sheng,Eleni Stroulia,Samir Tata,Sami Bhiri,2016-09-19 This book constitutes the proceedings of the 14th International Conference on Service Oriented Computing ICSOC 2016 held in Banff AB Canada in October 2016 The 30 full papers presented together with 18 short papers and 8 industrial papers in this volume were carefully reviewed and selected from 137 submissions The selected papers covered important topics in the area of service oriented computing including foundational issues on service discovery and service systems design business process modelling and management economics of service systems engineering as well as services on the cloud social networks the Internet of Things IoT and data analytics

**Introduction to Middleware** Letha Hughes Etzkorn,2017-06-12 A stereotype of computer science textbooks is that they are dry boring and sometimes even intimidating As a result they turn students interests off from the subject matter instead of enticing them into it This textbook is the opposite of such a stereotype The author presents the subject matter in a refreshing story telling style and aims to bring the Internet generation of students closer to her stories Yingcai Xiao The University of Akron Introduction to Middleware Web Services Object Components and Cloud Computing provides a comparison of different middleware technologies and the overarching middleware concepts they are based on The various major paradigms of middleware are introduced and their pros and cons are discussed This includes modern cloud interfaces including the utility of Service Oriented Architectures The text discusses pros and cons of RESTful vs non RESTful web services and also compares these to older but still heavily used distributed object component middleware The text guides readers to select an appropriate middleware technology to use for any given task and to learn new middleware technologies as they appear over time without being greatly overwhelmed by any new concept The book begins with an introduction to different distributed computing paradigms and a review of the different kinds of architectures architectural styles patterns and properties that

various researchers have used in the past to examine distributed applications and determine the quality of distributed applications Then it includes appropriate background material in networking and the web security and encoding necessary to understand detailed discussion in this area The major middleware paradigms are compared and a comparison methodology is developed Readers will learn how to select a paradigm and technology for a particular task after reading this text Detailed middleware technology review sections allow students or industry practitioners working to expand their knowledge to achieve practical skills based on real projects so as to become well functional in that technology in industry Major technologies examined include RESTful web services RESTful cloud interfaces such as OpenStack AWS EC2 interface CloudStack AJAX JAX RS ASP NET MVC and ASP NET Core non RESTful SOAP and WSDL based web services JAX WS Windows Communication Foundation distributed objects components Enterprise Java Beans NET Remoting CORBA The book presents two projects that can be used to illustrate the practical use of middleware and provides implementations of these projects over different technologies This versatile and class tested textbook is suitable depending on chapters selected for undergraduate or first year graduate courses on client server architectures middleware and cloud computing web services and web programming *Spark in Action, Second Edition* Jean-Georges Perrin,2020-06-02 Summary The Spark distributed data processing platform provides an easy to implement tool for ingesting streaming and processing data from any source In Spark in Action Second Edition you ll learn to take advantage of Spark s core features and incredible processing speed with applications including real time computation delayed evaluation and machine learning Spark skills are a hot commodity in enterprises worldwide and with Spark s powerful and flexible Java APIs you can reap all the benefits without first learning Scala or Hadoop Foreword by Rob Thomas Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Analyzing enterprise data starts by reading filtering and merging files and streams from many sources The Spark data processing engine handles this varied volume like a champ delivering speeds 100 times faster than Hadoop systems Thanks to SQL support an intuitive interface and a straightforward multilanguage API you can use Spark without learning a complex new ecosystem About the book Spark in Action Second Edition teaches you to create end to end analytics applications In this entirely new book you ll learn from interesting Java based examples including a complete data pipeline for processing NASA satellite data And you ll discover Java Python and Scala code samples hosted on GitHub that you can explore and adapt plus appendixes that give you a cheat sheet for installing tools and understanding Spark specific terms What s inside Writing Spark applications in Java Spark application architecture Ingestion through files databases streaming and Elasticsearch Querying distributed datasets with Spark SQL About the reader This book does not assume previous experience with Spark Scala or Hadoop About the author Jean Georges Perrin is an experienced data and software architect He is France s first IBM Champion and has been honored for 12 consecutive years Table of Contents PART 1 THE THEORY CRIPPLED BY AWESOME EXAMPLES 1 So what is Spark anyway 2 Architecture and flow 3 The majestic

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