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Guide complet pour installer OpenStack manuellement



Openstack Install Guide

Michael Solberg, Ben Silverman



Openstack Install Guide:

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

Certified OpenStack Administrator Study Guide Andrey Markelov,2016-11-04 Teaches you how and what to study in order to be best prepared for the Certified OpenStack Administrator exam This fast growing technology is creating a market that needs more qualified IT specialists with proven skills This book covers 100% of the exam requirements for both The OpenStack Foundation and the Mirantis OpenStack Certification Exam Each theme is taught using practical exercises and instructions for the command line and for the graphical client Horizon Each chapter is followed by review questions complete with answers Even after you have taken and passed your OpenStack exam this book will remain a useful reference What You Will Learn Understand the components that make up the cloud Install and make an OpenStack distribution from Mirantis Red Hat or another community version Work with OpenStack Identity Management Dashboard CLI Object Storage Block Storage Networking Telemetry Orchestration and Image Services Learn how to troubleshoot all the main OpenStack services Understand where to find information for future work with OpenStack Who This Book Is For Certified OpenStack Administrator Study Guide is for Cloud and Linux engineers looking for a better understanding of how to work with the modern OpenStack IaaS Cloud and wants to prove their knowledge by passing a Certified OpenStack Administrator Exam

Openstack Certified Administrator Certification Prep Guide : 350 Questions & Answers CloudRoar Consulting Services,2025-08-15 Ace the OpenStack Certified Administrator exam with 350 questions and answers covering OpenStack architecture compute storage networking security troubleshooting and cloud operations Each question includes practical explanations and real world scenarios to ensure learning and exam readiness Ideal for cloud administrators and OpenStack professionals OpenStackCertification CloudAdministration Compute Storage Networking Security Troubleshooting ExamPreparation TechCertifications ITCertifications CareerGrowth CertificationGuide ProfessionalDevelopment CloudSkills

ITAdmin 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 **Learning OpenStack Networking** James Denton, 2018-08-31 Discover the basics of virtual networking in OpenStack to implement various cloud network architectures Key Features Learn the difference between Open vSwitch and Linux bridge switching technologies Connect virtual machine instances to virtual networks subnets and ports Implement virtual load balancers firewalls and routers in your network Book Description OpenStack Networking is a pluggable scalable and API driven system to manage physical and virtual networking resources in an OpenStack based cloud Like other core OpenStack components OpenStack Networking can be used by administrators and users to increase the value and maximize the use of existing datacenter resources This third edition of Learning OpenStack Networking walks you through the installation of OpenStack and provides you with a foundation that can be used to build a scalable and production ready OpenStack cloud In the initial chapters you will review the physical network requirements and architectures necessary

for an OpenStack environment that provide core cloud functionality Then you ll move through the installation of the new release of OpenStack using packages from the Ubuntu repository An overview of Neutron networking foundational concepts including networks subnets and ports will segue into advanced topics such as security groups distributed virtual routers virtual load balancers and VLAN tagging within instances By the end of this book you will have built a network infrastructure for your cloud using OpenStack Neutron What you will learn Get familiar with Neutron constructs including agents and plugins Build foundational Neutron resources to provide connectivity to instances Work with legacy Neutron routers and troubleshoot traffic through them Explore high availability routing capabilities utilizing Virtual Router Redundancy Protocol VRRP Create and manage load balancers and associated components Manage security groups as a method of securing traffic to and from instances Who this book is for If you are an OpenStack based cloud operator and administrator who is new to Neutron networking and wants to build your very own OpenStack cloud then this book is for you Prior networking experience and a physical server and network infrastructure is recommended to follow along with concepts demonstrated in the book

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

Mastering OpenStack Omar Khedher,Chandan Dutta Chowdhury,2017-04-26 Discover your complete guide to designing deploying and managing OpenStack based clouds in mid to large IT infrastructures with best practices expert understanding and more About This Book Design and deploy an OpenStack based cloud in your mid to large IT infrastructure using automation tools and best practices Keep yourself up to date with valuable insights into OpenStack components and new services in the latest OpenStack release Discover how the new features in the latest OpenStack release can help your enterprise and infrastructure Who This Book Is For This book is for system administrators cloud engineers and system architects who would like to deploy an OpenStack based cloud in a mid to large IT infrastructure This book requires a moderate level of system administration and familiarity with cloud concepts What You Will Learn Explore the main architecture design of OpenStack components and core by core services and how they work together Design different high availability scenarios and plan for a no single point of failure environment Set up a multinode environment in production using orchestration tools Boost OpenStack s performance with advanced configuration Delve into various hypervisors and container technology supported by OpenStack Get familiar with deployment methods and discover use cases in a real production environment Adopt the DevOps style of automation while deploying and operating in an OpenStack environment Monitor the cloud infrastructure and make decisions on maintenance and performance improvement In Detail In this second edition you will get to grips with the latest features of OpenStack Starting with an overview of the OpenStack architecture you ll see how to adopt the DevOps style of automation while deploying and operating in an OpenStack environment We ll show you how to create your own OpenStack

private cloud Then you ll learn about various hypervisors and container technology supported by OpenStack You ll get an understanding about the segregation of compute nodes based on reliability and availability needs We ll cover various storage types in OpenStack and advanced networking aspects such as SDN and NFV Next you ll understand the OpenStack infrastructure from a cloud user point of view Moving on you ll develop troubleshooting skills and get a comprehensive understanding of services such as high availability and failover in OpenStack Finally you will gain experience of running a centralized logging server and monitoring OpenStack services The book will show you how to carry out performance tuning based on OpenStack service logs You will be able to master OpenStack benchmarking and performance tuning By the end of the book you ll be ready to take steps to deploy and manage an OpenStack cloud with the latest open source technologies Style and approach This book will help you understand the flexibility of OpenStack by showcasing integration of several out of the box solutions in order to build a large scale cloud environment It will also cover detailed discussions on the various design and deployment strategies for implementing a fault tolerant and highly available cloud infrastructure Red Hat Certified Openstack Administrator Certification Prep Guide : 350 Questions & Answers CloudRoar Consulting Services,2025-08-15 Get ready for the Red Hat Certified OpenStack Administrator exam with 350 questions and answers covering OpenStack architecture deployment configuration security networking storage and troubleshooting Each question provides practical examples and explanations to ensure exam readiness Ideal for cloud administrators and IT professionals RedHatCertification OpenStack CloudAdministration Deployment Configuration Security Networking Storage Troubleshooting ExamPreparation TechCertifications ITCertifications CareerGrowth ProfessionalDevelopment CloudSkills

OpenStack Trove Amrith Kumar,Douglas Shelley,2015-08-03 OpenStack Trove is your step by step guide to set up and run a secure and scalable cloud Database as a Service DBaaS solution The book shows you how to set up and configure the Trove DBaaS framework use prepackaged or custom database implementations and provision and operate a variety of databases including MySQL PostgreSQL MongoDB Cassandra and Redis in development and production environments Authors Amrith Kumar and Douglas Shelley both active technical contributors to the Trove project describe common deployment scenarios such as single node database instances and walk you through the setup configuration and ongoing management of complex database topics like replication clustering and high availability The book provides detailed descriptions of how Trove works and gives you an in depth understanding of its architecture It also shows you how to avoid common errors and debug and troubleshoot Trove installations and perform common tasks such as 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

[OpenStack Trove Essentials](#) Alok Shrivastwa, Sunil Sarat, 2016-03-30

Build your own cloud based Database as a Service using OpenStack Trove

About This Book Familiarize yourself with the concept of Database as a Service and make your existing system scalable and efficient with OpenStack Trove Minimize the administrative tasks and complexities of managing your cloud infrastructure This is a fast paced guide to datastore management on the OpenStack platform using OpenStack Trove

Who This Book Is For If you are a DBA system administrator architect or a student who wants to build a Database as a Service based on OpenStack this book is for you You should have a basic knowledge of OpenStack components RDBMS NoSQL IaaS and cloud computing

What You Will Learn

- Get to grips with the basics of OpenStack and the prerequisites to install Trove
- Understand the expectations of DBaaS and how Trove can help you achieve them
- Set up a basic installation of DevStack Development Stack in a virtual box
- Install Trove and utilize its configuration groups to manage and tune databases
- Use Image builder to create guest images for Trove
- Utilize Trove to provision your first database instance
- Back up and restore your databases with the help of Trove

In Detail OpenStack has become an extremely popular solution to build public and private clouds with Database as a Service DBaaS enables the delivery of more agile

database services at lower costs Some other benefits of DBaaS are secure database deployments and compliance to standards and best practices Trove is a DBaaS built on OpenStack and is becoming more popular by the day Since Trove is one of the most recent projects of OpenStack DBAs and system administrators can find it difficult to set up and run a DBaaS using OpenStack Trove This book helps DBAs make that step We start by introducing you to the concepts of DBaaS and how it is implemented using OpenStack Trove Following this we look at implementing OpenStack and deploying Trove Moving on you will learn to create guest images to be used with Trove We then look at how to provision databases in self service mode and how to perform administration tasks such as backup and recovery and fine tuning databases At the end of the book we will examine some advanced features of Trove such as replication Style and approach This fast paced step by step guide introduces you to DBaaS OpenStack Trove and its components leading you through building your own Cloud based DBaaS Using the DevStack deployment method you will spend less time on installing OpenStack so you can devote more time to learning how to provision and manage databases in a DBaaS environment [Learning OpenStack Networking \(Neutron\)](#)

James Denton,2015-11-27 Wield the power of OpenStack Neutron networking to bring network infrastructure and capabilities to your cloud About This Book This completely up to date edition will show you how to deploy a cloud on OpenStack using community driven processes It includes rich examples that will help you understand complex networking topics with ease Understand every aspect of designing creating customizing and maintaining the core network foundation of an OpenStack cloud using OpenStack Neutron all in one book Written by best selling author James Denton who has more than 15 years of experience in system administration and networking James has experience of deploying operating and maintaining OpenStack clouds and has worked with top enterprises and organizations Who This Book Is For If you are an OpenStack based cloud operator and administrator who is new to Neutron networking and wants to build your very own OpenStack cloud then this book is for you Prior networking experience and a physical server and network infrastructure is recommended to follow along with concepts demonstrated in the book What You Will Learn Architect and install the latest release of OpenStack on Ubuntu Linux 14 04 LTS Review the components of OpenStack networking including plugins agents and services and learn how they work together to coordinate network operations Build a virtual switching infrastructure using reference architectures based on ML2 Open vSwitch or ML2 LinuxBridge Create networks subnets and routers that connect virtual machine instances to the network Deploy highly available routers using DVR or VRRP based methods Scale your application with haproxy and Load Balancing as a Service Implement port and router level security using Security Groups and Firewall as a Service Provide connectivity to tenant networks with Virtual Private Networking as a Service VPNaaS Find out how to manage OpenStack networking resources using CLI and GUI driven methods In Detail OpenStack Neutron is an OpenStack component that provides networking as a service for other OpenStack services to architect networks and create virtual machines through its API This API lets you define network connectivity in order to leverage

network capabilities to cloud deployments Through this practical book you will build a strong foundational knowledge of Neutron and will architect and build an OpenStack cloud using advanced networking features We start with an introduction to OpenStack Neutron and its various components including virtual switching routing FWaaS VPNaaS and LBaaS You ll also get hands on by installing OpenStack and Neutron and its components and use agents and plugins to orchestrate network connectivity and build a virtual switching infrastructure Moving on you ll get to grips with the HA routing capabilities utilizing VRRP and distributed virtual routers in Neutron You ll also discover load balancing fundamentals including the difference between nodes pools pool members and virtual IPs You ll discover the purpose of security groups and learn how to apply the security concept to your cloud tenant instance Finally you ll configure virtual private networks that will allow you to avoid the use of SNAT and floating IPs when connecting to remote networks Style and approach This easy to follow guide on networking in OpenStack follows a step by step process to installing OpenStack and configuring the base networking components Each major networking component has a dedicated chapter that will build on your experience gained from prior chapters

Ubuntu Server Cookbook Uday R. Sawant, 2016-06-30 Arm yourself to make the most of the versatile powerful Ubuntu Server with over 100 hands on recipes About This Book Master the skills to setup secure and scalable web services with popular tools like Apache Nginx MySQL and HAProxy Set up your own cloud with Open Stack and quickly deploy applications with Docker or LXD Packed with clear step by step recipes to let you protect you valuable data with your own chat servers code hosting and collaboration tools Who This Book Is For Ubuntu Server Cookbook is for system administrators or software developers with a basic understanding of the Linux operating system who want to set up their own servers You are not required to have in depth knowledge or hands on experience with Ubuntu but you should know the basics commands for directory navigation file management and the file editing tool An understanding of computer networks is advisable What You Will Learn Set up high performance scalable and fault tolerant back ends with web and database servers Facilitate team communication with a real time chat service and collaboration tools Quickly deploy your applications to their own containers and scale your infrastructure as and when needed Find out how to set up your own cloud infrastructure for your internal use or rent it to the public Ensure quick and easy access for your users while also securing your infrastructure from intruders Set up a high performance private network with a personal VPN server and centralized authentication system Swiftly start a content streaming service Set up network storage for private data and source code and say good bye to costly and unreliable cloud services In Detail Ubuntu is one of the most secure operating systems and defines the highest level of security as compared other operating system Ubuntu server is a popular Linux distribution and the first choice when deploying a Linux server It can be used with a 35 Raspberry Pi to top notch thousand dollar per month cloud hardware Built with lists that there are 4 million websites built using Ubuntu With its easy to use package management tools and availability of well known packages we can quickly set up our own services such as web servers and database servers using Ubuntu This book will help

you develop the skills required to set up high performance and secure services with open source tools Starting from user management and an in depth look at networking we then move on to cover the installation and management of web servers and database servers as well as load balancing various services You will quickly learn to set up your own cloud and minimize costs and efforts with application containers Next you will get to grips with setting up a secure real time communication system Finally we ll explore source code hosting and various collaboration tools By the end of this book you will be able to make the most of Ubuntu s advanced functionalities Style and approach This easy to follow guide contains a series of step by step recipes ranging from simple to complex Each topic will start with basic introduction to each technology followed by a detailed step by step installation guide and then a detailed explanation of the approach taken during installation and the various advanced options available

Extending OpenStack Omar Khedher, 2018-02-27 Discover new opportunities to empower your private cloud by making the most of the OpenStack universe Key Features This practical guide teaches you how to extend the core functionalities of OpenStack Discover OpenStack s flexibility by writing custom applications and network plugins Deploy a containerized environment in OpenStack through a hands on and example driven approach Book Description OpenStack is a very popular cloud computing platform that has enabled several organizations during the last few years to successfully implement their Infrastructure as a Service IaaS platforms This book will guide you through new features of the latest OpenStack releases and how to bring them into production straightaway in an agile way It starts by showing you how to expand your current OpenStack setup and how to approach your next OpenStack Data Center generation deployment You will discover how to extend your storage and network capacity and also take advantage of containerization technology such as Docker and Kubernetes in OpenStack Additionally you ll explore the power of big data as a Service terminology implemented in OpenStack by integrating the Sahara project This book will teach you how to build Hadoop clusters and launch jobs in a very simple way Then you ll automate and deploy applications on top of OpenStack You will discover how to write your own plugin in the Murano project The final part of the book will go through best practices for security such as identity access management and authentication exposed by Keystone in OpenStack By the end of this book you will be ready to extend and customize your private cloud based on your requirements What you will learn Explore new incubated projects in the OpenStack ecosystem and see how they work Architect your OpenStack private cloud with extended features of the latest versions Consolidate OpenStack authentication in your large infrastructure to avoid complexity Find out how to expand your computing power in OpenStack on a large scale Reduce your OpenStack storage cost management by taking advantage of external tools Provide easy on demand cloud ready applications to developers using OpenStack in no time Enter the big data world and find out how to launch elastic jobs easily in OpenStack Boost your extended OpenStack private cloud performance through real world scenarios Who this book is for This book is for system administrators cloud architects and developers who have experience working with OpenStack and are ready to step up and extend its

functionalities A good knowledge of basic OpenStack components is required In addition familiarity with Linux boxes and a good understanding of network and virtualization jargon is required

Using XIV in OpenStack Environments Bertrand Dufrasne, Roger Eriksson, Wenzel Kalabza, Lisa Martinez, IBM Redbooks, 2015-02-27 This IBM Redpaper™ publication provides a brief overview of OpenStack and IBM Cloud Manager with OpenStack It focuses on the use of OpenStack with the IBM XIV Storage System Gen3 The illustration scenario in the paper uses the OpenStack Icehouse release which is installed on RedHat Linux servers and the IBM Storage Driver for OpenStack This paper is intended for clients and cloud administrators who look forward to integrating IBM XIV Storage Systems in OpenStack and using IBM Cloud Manager with OpenStack environments The paper provides guidance in setting up an environment by using XIV as the back end storage in an OpenStack cloud environment This paper is not an official support document

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

Handbook of Research on End-to-End Cloud Computing Architecture Design Chen, Jianwen “Wendy”,Zhang, Yan,Gottschalk, Ron,2016-10-06 Cloud computing has become integrated into all sectors from business to quotidian life Since it has revolutionized modern computing there is a need for updated research related to the architecture and frameworks necessary to maintain its efficiency The Handbook of Research on End to End Cloud Computing Architecture Design provides architectural design and implementation studies on cloud computing from an end to end approach including the latest industrial works and extensive research studies of cloud computing This handbook enumerates deep dive and systemic studies of cloud computing from architecture to implementation This book is a comprehensive publication ideal for programmers IT professionals students researchers and engineers *Linux: Powerful Server Administration* Uday R. Sawant,Oliver Pelz,Jonathan Hobson,William Leemans,2017-04-27 Get hands on recipes to make the most of Ubuntu Server CentOS 7 Linux Server and RHEL 7 Server About This Book Get Linux servers up and running in seconds In depth guide to explore new features and solutions in server administration Maintain performance and security of your server solution by deploying expert configuration advice Who This Book Is For This Learning Path is intended for system administrators with a basic understanding of Linux operating systems and written with the novice to intermediate Linux user in mind To get the most of this Learning Path you should have a working knowledge of basic system administration and management tools What You Will Learn Set up high performance scalable and fault tolerant back ends with web and database servers Facilitate team communication with a real time chat service and collaboration tools Monitor manage and develop your server s file system to maintain a stable performance Gain best practice methods on sharing files and resources through a network Install and configure common standard services such as web mail FTP database and domain name server technologies Create kickstart scripts to automatically deploy RHEL 7 systems Use Orchestration and configuration management tools to manage your environment In Detail Linux servers are frequently selected over other server operating systems for their stability security and flexibility advantages This Learning Path will teach you how to get up and running with three of the most popular Linux server distros Ubuntu Server CentOS 7 Server and RHEL 7 Server We will begin with the Ubuntu Server and show you how to make the most of Ubuntu s advanced functionalities Moving on we will provide you with all the knowledge that will give you access to the inner workings of the latest CentOS version 7 Finally touching RHEL 7 we will provide you with solutions to common RHEL 7 Server challenges 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 1 Ubuntu Server Cookbook 2 CentOS 7 Linux Server Cookbook Second Edition 3 Red Hat Enterprise Linux Server Cookbook Style and approach This easy to follow practical

guide contains hands on examples and solutions to real word administration problems and problems faced when building your RHEL 7 system from scratch using orchestration tools

Harnessing the Internet of Everything (IoE) for Accelerated Innovation Opportunities Cardoso, Pedro J.S.,Monteiro, Jânio,Semião, Jorge,Rodrigues, João M.F.,2019-02-15

As innovators continue to explore and create new developments within the fields of artificial intelligence and computer science subfields such as machine learning and the internet of things IoT have emerged Now the internet of everything IoE foreseen as a cohesive and intelligent connection of people processes data and things is theorized to make internet connections more valuable by converting information into wise actions that create unprecedented capabilities richer experiences and economic opportunities to all players in the market Harnessing the Internet of Everything IoE for Accelerated Innovation Opportunities discusses the theoretical design evaluation implementation and use of innovative technologies within the fields of IoE machine learning and IoT Featuring research on topics such as low power electronics mobile technology and artificial intelligence this book is ideally designed for computer engineers software developers investigators advanced level students professors and professionals seeking coverage on the various contemporary theories technologies and tools in IoE engineering

[Proceedings of the International Conference on Applied CyberSecurity \(ACS\) 2021](#) Hani Ragab Hassen,Hadj Batatia,2022-02-01

Cybersecurity has gained in awareness and media coverage in the last decade Not a single week passes without a major security incident that affects a company sector or governmental agencies This proceedings of the International Conference on Applied CyberSecurity 2021 ACS21 held in Dubai on 13 and 14 November contains thirteen original contributions More than half of the contributions are about applications of machine learning to accomplish several cybersecurity tasks such as malware phishing email detection and Botnet detection This was consistent with the current research and market trends We divided this book into two parts the first is focused on machine learning applications to cybersecurity whereas the second groups the other approaches This book is suitable for cybersecurity researchers and practitioners as well as fresh graduates It is also suitable for artificial intelligence researchers interested in exploring applications in cybersecurity

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