

IaaS Mit Openstack

SpeichernetzeContinuous DeliveryTestbeds and Research Infrastructure: Development of Networks and CommunitiesThe GENI BookQuality ControlCyber InsecurityIaaS mit OpenStackIaaS mit OpenStackOpenStack for ArchitectsIaaS Cloud Computing With OpenStack MasterClass - Part 2OpenStack Operations GuideIaaS Cloud Computing With OpenStack MasterClass - Part 1IaaS Cloud Computing with OpenStack MasterclassOpenStackIntegrating Kerberos in OpenStack Cloud Infrastructure as a ServiceOpenStack Cloud Application DevelopmentOpenStack for ArchitectsLearning OpenStackOpenstack Operations GuideOpenStack: Building a Cloud Environment Ulf Troppens Eberhard Wolff Thanasis Korakis Rick McGeer Pengzhong Li Vlas Leonas Tilmann Beitter. Sebastian Zielenski Ben Silverman Harini 1 Tom Fifield Harini 1 Harini Srikanth Manuj Aggarwal Sanket Lawangare Scott Adkins Michael Solberg Alok Shrivastwa Alok Shrivastwa

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in der vergangenheit wurden daten vor allem auf festplatten und magnetbändern gespeichert die in den speichernetzen der eigenen rechenzentren betrieben wurden heute erstreckt sich die speicherlandschaft von unternehmen über die grenzen von rechenzentren hinaus in die cloud und auf mobile endgeräte dieses buch vermittelt einen umfassenden einblick in techniken und architekturen für die speicherung von daten und stellt anwendungen für das datenmanagement vor dieses wissen befähigt sie eigene lösungen für die effiziente speicherung und verwaltung von daten zu entwickeln und zu betreiben dazu erklärt das buch zunächst grundlegende techniken für die speicherung auf disk und flashsystemen magnetbändern dateisystemen sowie objektspeichern und erläutert wesentliche übertragungstechniken wie fibre channel iscsi infiniband und nvme außerdem lernen sie die neuen techniken zur verarbeitung von unstrukturierten daten im pervasive computing und in der cloud kennen die autoren leiten daraus die jeweiligen anforderungen an den speicher ab und zeigen wie beide welten miteinander kombiniert werden können der zweite teil des buchs beschreibt den einsatz dieser techniken und wie sie helfen ausfallsicherheit anpassbarkeit und erweiterbarkeit von speichernetzen und anwendungen zu gewährleisten weitere schwerpunkte bilden anwendungen für das datenmanagement wie die datensicherung die digitale archivierung und die verwaltung von speichernetzen die 3 auflage wurde komplett überarbeitet das buch wurde um einige kapitel erweitert und bestehende kapitel aktualisiert um den vielen neuen entwicklungen der speicherwelt rechnung zu tragen

continuous delivery ermöglicht es software viel schneller und mit wesentlich höherer zuverlässigkeit in produktion zu bringen als es bisher möglich war grundlage dafür ist eine continuous delivery pipeline die das ausrollen der software weitgehend automatisiert und so einen reproduzierbaren risikoarmen prozess für die bereitstellung neuer releases bietet dieses buch macht sie mit dem aufbau einer continuous delivery pipeline vertraut und erklärt welche technologien sie dazu einsetzen können dabei lernen sie u a folgende themen kennen infrastruktur automatisierung mit chef docker und vagrant

automatisierung von builds und continuous integration akzeptanztests kapazitätstests exploratives testen einföhrung von continuous delivery im unternehmen continuous delivery und devops auswirkungen auf die softwarearchitektur als praktisches beispiel wird ein konkreter technologie stack vorgestellt zahlreiche aufgaben und vorschläge für weitergehende experimente laden sie darüber hinaus zur praktischen vertiefung des themas ein nach der lektüre können sie abschätzen welche vorteile continuous delivery konkret bietet und sie verfügen über das nötige handwerkszeug um continuous delivery in ihrem eigenen arbeitsumfeld zu etablieren die neuauflage wurde in bezug auf werkzeuge wie docker jenkins graphite und den elk stack aktualisiert an neuen themen sind docker compose docker machine immutable server microservices und die einföhrung von continuous delivery ohne devops hinzugekommen

this book constitutes the proceedings of the 8th international icst conference tridentcom 2012 held in thessanoliki greece in june 2012 out of numerous submissions the program committee finally selected 51 full papers these papers cover topics such as future internet testbeds wireless testbeds federated and large scale testbeds network and resource virtualization overlay network testbeds management provisioning and tools for networking research and experimentally driven research and user experience evaluation

this book edited by four of the leaders of the national science foundation s global environment and network innovations geni project gives the reader a tour of the history architecture future and applications of geni built over the past decade by hundreds of leading computer scientists and engineers geni is a nationwide network used daily by thousands of computer scientists to explore the next cloud and internet and the applications and services they enable which will transform our communities and our lives since by design it runs on existing computing and networking equipment and over the standard commodity internet it is poised for explosive growth and transformational impact over the next five years over 70 of the builders of geni have contributed to present its development architecture and implementation both as a standalone us project and as a federated peer with similar projects worldwide forming the core of a worldwide network applications and services enabled by geni from smarter cities to intensive collaboration to immersive education are discussed the book also explores the concepts and technologies that transform the internet from a shared transport network to a collection of slices private on the fly application specific nationwide networks with guarantees of privacy and responsiveness the reader will learn the motivation for building geni and the experience of its precursor infrastructures the architecture and implementation of the geni infrastructure its deployment across the united states and worldwide the new network applications and services enabled by and running on the geni infrastructure and its international collaborations and extensions this book is useful for academics in the networking and distributed systems areas chief information officers in the academic private and government sectors and network and information architects

quality control is changing along with the manufacturing environment a series of revolutionary changes will occur in management contents methods capabilities and real time effectiveness and efficiency of management as an essential factor in intelligent manufacturing quality control systems require real and comprehensive innovation focused on new trends and developments in quality control from a worldwide perspective this book presents the latest information on novel approaches in quality control its thirteen chapters cover three topics intelligent manufacturing robust design and control charts

cyber insecurity examining the past defining the future deals with the multifaceted world of cybersecurity starting with the premise that while perfection in cybersecurity may be unattainable significant improvements can be made through understanding history and fostering innovation vladas leonas shares his journey from moscow to australia highlighting his academic and professional milestones this book covers the evolution of cybersecurity from the late 1960s to the present detailing significant events and technological advancements the author emphasises the importance of simplicity in

technology projects citing complexity as a major hindrance to success the book also discusses the impact of the digital revolution using the example of a global it outage caused by a faulty software update project management methodologies are explored tracing their origins from ancient civilisations to modern techniques such as cpm and pert the concept of cloud computing is examined highlighting its benefits and potential security issues the evolution and advantages of saas solutions are also discussed noting their increased adoption during the covid 19 pandemic the author then addresses supply chain challenges using real world examples to illustrate vulnerabilities he traces the history of communication methods leading up to tcp ip and discusses the development and importance of dns the differences between compliance and conformance in cybersecurity are clarified emphasising that compliance does not equate to security key cybersecurity standards such as the nist csf and iso iec 27000 series are examined the book also covers the essential 8 a set of cybersecurity controls developed by the australian signals directorate the convergence of ot and iot is discussed highlighting the cybersecurity risks associated with this integration emerging threats from ai and quantum computing are explored noting their potential to both advance and threaten cybersecurity the evolving legal landscape of cybersecurity is also covered emphasising the need for international cooperation and innovative legal solutions in conclusion the book stresses the importance of critical thinking and a holistic approach to cybersecurity advocating for simplicity and foundational practices to enhance security

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

understand openstack architecture install and configure your own private cloud cluster learn neutron cinder and nova about this video firstly you will be introduced to the openstack series and a few of its components or services next you will deep dive into each of the components you will learn their basic architecture you will learn how to install and configure these components with informative demonstrations they will be explained in simple easy language assessment quizzes tied to the end of each module will help you test your knowledge of the module in detail enhance your career with a course in masterclass openstack mitaka 2openstack began in 2010 as a joint project of rackspace hosting

and nasa more than 500 companies have joined the project since openstack is an open source software for building private and public clouds this is a cloud operating system that controls a large pool of compute storage and networking resources throughout a data centre openstack boosts business agility availability and efficiency by providing a platform with on demand resource pooling self service highly elastic and measured services capabilities openstack has certain capabilities like self service life cycle management for example the run reboot suspend resize and terminate instances we don t need manual introduction to perform all these tasks it will automatically do it using the different openstack services now why would you want to do that can t you just subscribe with amazon services aws microsoft azure ibm cloud salesforce google or some other cloud services provider you certainly can however if you are not comfortable entrusting sensitive data to a third party and you have tons of it then an on premise or private cloud infrastructure would be the better choice by building your own cloud in your own data center you will have more control of your data openstack enables you to do just that

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

understand openstack architecture install and configure your own private cloud cluster learn keystone glance and nova about this video first you will be introduced to the openstack series and a few of its components or services next you will deep dive into each of the components you will learn their basic architecture you will learn how to install and configure these components with informative demonstrations they will be explained in simple easy language assessment quizzes tied to the end of each module will help you test your knowledge of the module in detail enhance your career with this course in iaas cloud computing with openstack masterclass part 1 openstack began in 2010 as a joint project of rackspace hosting and nasa more than 500 companies have joined the project since openstack is an open source software for building private and public clouds this is a cloud operating system that controls a large pool of compute storage and networking resources throughout a data centre openstack boosts business agility availability and efficiency by providing a platform with on demand resource pooling self service highly elastic and measured services capabilities openstack has certain capabilities like a self service life cycle management for example the run reboot suspend resize and terminate instances we don t need a manual introduction to perform all these tasks it will automatically do it using the different openstack services now why would you want to do that can t you just subscribe with amazon services aws microsoft azure ibm cloud salesforce google or some other cloud services provider you certainly can however if you are not comfortable entrusting sensitive data to a third party and you have tons of it then an on premise or private cloud infrastructure would be the better choice by building your own cloud in your own data centre you will have more control of your data openstack enables you to do just that

openstack is an open source software for building private and public clouds this is a cloud operating system that controls a large pool of compute storage and networking resources throughout a data center openstack boosts business agility availability and efficiency by providing a platform with on demand resource pooling self service highly elastic and measured services capabilities openstack has

certain capabilities like self service life cycle management for example the run reboot suspend resize and terminate instances we don't need manual introduction to perform all these tasks it will automatically do it using the different openstack services now why would you want to do that can't you just subscribe with amazon services aws microsoft azure ibm cloud salesforce google or some other cloud services provider you certainly can however if you are not comfortable entrusting sensitive data to a third party and you have tons of it then an on premise or private cloud infrastructure would be the better choice by building your own cloud in your own data center you will have more control of your data openstack enables you to do just that resource description page

in this course we will learn about openstack and its various components and services we will get an in depth look at how we can use openstack to deploy and manage our own private cloud infrastructure knowledge and experience on cloud computing and openstack are highly sought after by startups and large enterprises alike the demand for these skills has been steadily increasing over the last few years we will also go through some evidence about just how valuable these skills are and how the demand for these skills is growing resource description page

infrastructure as a service iaaS is one of the three fundamental service models of cloud computing besides platform as a service paaS and software as a service saas iaaS provides access to the computing resources such as compute storage and networking services in a virtualized environment using a public connection like internet instead of having to purchase hardware outright users can purchase iaaS based on their consumption similar to electricity or other utility billing an iaaS consumer can usually access these resources through a web browser need not manage or control the underlying physical infrastructure but has control over operating systems storage deployed applications and possibly limited control of select networking components iaaS can be utilized by enterprise customers to create cost effective and easily scalable it solutions amazon services aws microsoft azure google compute engine gce rackspace are the leading iaaS providers openstack is one such open source iaaS platform openstack is an open source cloud computing operating system openstack operating system assimilates the underlying physical infrastructure into a pool of common resources such as compute storage and networks these resources can be provisioned into flexible units that are quickly allotted as per the user's demands users can configure their systems using these resources on a self service and pay as you use basis from a web based user interface openstack evolves to be a popular iaaS solution this research primarily focuses on openstack's central identity management service called as keystone keystone is organized as a group of internal services such as identity token catalog and policy services all the users in openstack are registered with keystone the identity service authenticates openstack users and services based on user credentials such as username and password upon validating these credentials keystone generates and issues an authentication token called as bearer token which the user uses subsequently to access openstack services the user forwards this token to access other openstack services in order to perform certain user related operations on receiving it the openstack service verifies the token validation time and authorizes the user to perform the requested operation in the recent times there has been a growing interest in the openstack user community to improve the user authentication in keystone the current authentication mechanism uses bearer tokens bearer token means that whoever possesses the token has all the rights associated with that person these tokens are forwarded by the users across all of the public services in an openstack deployment hence if a malicious entity steals the bearer token associated with a person it can impersonate as the original user as openstack grows and this token is presented to the ever increasing list of services the vulnerability of this mechanism increases which may compromise the security of openstack users and needs to be addressed to address the problem of token impersonation a secure user authentication protocol like kerberos can prove to be very effective kerberos mechanism allows users to authenticate using symmetric key encryption by the collaboration of a reliable third party called as a key distribution center kdc in addition to that kerberos allow users access to the services without the need of repeating the authentication process as long as the session stays alive this feature is known as single sign on in this thesis a systematic study of the

keystone architecture and the existing token based user authentication is conducted based on it a proof of concept model of kerberos is designed to verify the feasibility to integrate kerberos with the existing token based authentication this proposed model is further implemented at the keystone by leveraging the underlying token mechanism and by linking the kerberos credentials with the token which provides an added layer of security to the existing mechanism benchmark tests are performed to evaluate the cost incurred by the proposed implementation

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 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

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

set up and maintain your own cloud based infrastructure as a service iaas using openstack about this book build and manage a cloud environment using just four virtual machines get to grips with mandatory as well as optional openstack components and know how they work together leverage your cloud environment to provide infrastructure as a service iaas with this practical step by step guide who this book is for this book is targeted at all aspiring administrators architects or students who want to build cloud environments using openstack knowledge of iaas or cloud computing is recommended what you will learn get an introduction to openstack and its components authenticate and authorize the cloud environment using keystone store and retrieve data and images using storage components such as cinder swift and glance use nova to build a cloud computing fabric controller abstract technology agnostic networks using the neutron network component gain an understanding of optional components such as ceilometer trove ironic sahara barbican zaqar designate manila and many more see how all of the openstack components collaborate to provide iaas to users create a production grade openstack and automate your openstack cloud in detail openstack is a free and open source cloud computing platform that is rapidly gaining popularity in enterprise data centres it is a scalable operating system and is used to build private and public clouds it is imperative for all the aspiring cloud administrators to possess openstack skills if they want to succeed in the cloud led infrastructure space this book will help you gain a clearer understanding of openstack's components and their interaction with each other to build a cloud environment you will learn to deploy a self service based cloud using just four virtual machines and standard networking you begin with an introduction on the basics of cloud computing this is followed by 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 furthermore you will see how all of the openstack components come together in providing iaas to users finally you will take your openstack cloud to the next level by integrating it with other ecosystem elements before automation by the end of this book you will be proficient with the fundamentals and application of openstack style and approach this is a practical step by step guide comprising of installation prerequisites and basic troubleshooting instructions to help you build an error free openstack cloud easily

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

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