

Nginx Plus On Aws

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Nginx Troubleshooting - Alex Kapranoff 2016-04-22

Investigate and solve problems with Nginx-powered websites using a deep understanding of the underlying principles About This Book Solve problems with your Nginx-powered websites before your audience notices anything Peek into the Nginx architecture and gain knowledge that will help you be valuable to you in the long run Gain knowledge of different types of problems in a step-by-step way Who This Book Is For

The book is for technical specialists who already use Nginx to serve web pages for their users. Whether you are an experienced system administrator or a new professional, this book will help you do your job in the most efficient way. What You Will Learn Detect and investigate problems with your web servers Create correct and professional configuration files Get an in-depth understanding of the web server software Interpret Nginx log files easily

and with actionable insights
Make your websites respond as fast as possible Prevent problems by setting up proper monitoring and alerts In Detail Nginx is clearly winning the race to be the dominant software to power modern websites. It is fast and open source, maintained with passion by a brilliant team. This book will help you maintain your Nginx instances in a healthy and predictable state. It will lead you through all the types of problems you might encounter as a web administrator, with a special focus on performance and migration from older software. You will learn how to write good configuration files and will get good insights into Nginx logs. It will provide you solutions to problems such as missing or broken functionality and also show you how to tackle performance issues with the Nginx server. A special chapter is devoted to the art of prevention, that is, monitoring and alerting services you may use to detect problems before they manifest themselves on a

big scale. The book ends with a reference to error and warning messages Nginx could emit to help you during incident investigations. Style and approach This comprehensive tutorial on Nginx troubleshooting takes a practical approach to guiding you through common issues in Nginx server.

Engineer Your Software! -

Scott A. Whitmire 2022-06-01

Software development is hard, but creating good software is even harder, especially if your main job is something other than developing software.

Engineer Your Software! opens the world of software engineering, weaving engineering techniques and measurement into software development activities.

Focusing on architecture and design, Engineer Your

Software! claims that no matter how you write software, design and engineering matter and can be applied at any point in the process. Engineer Your Software! provides advice, patterns, design criteria, measures, and techniques that

will help you get it right the first time. Engineer Your Software! also provides solutions to many vexing issues that developers run into time and time again. Developed over 40 years of creating large software applications, these lessons are sprinkled with real-world examples from actual software projects. Along the way, the author describes common design principles and design patterns that can make life a lot easier for anyone tasked with writing anything from a simple script to the largest enterprise-scale systems.

NGINX en action - Derek Dejonghe 2021-08-12

Mastering Embedded Linux Programming - Frank Vasquez 2021-05-14

Harness the power of Linux to create versatile and robust embedded solutions
Key Features
Learn how to develop and configure robust embedded Linux devices
Explore the new features of Linux 5.4 and the Yocto Project 3.1

(Dunfell) Discover different ways to debug and profile your code in both user space and the Linux kernel
Book Description
If you're looking for a book that will demystify embedded Linux, then you've come to the right place.
Mastering Embedded Linux Programming is a fully comprehensive guide that can serve both as means to learn new things or as a handy reference. The first few chapters of this book will break down the fundamental elements that underpin all embedded Linux projects: the toolchain, the bootloader, the kernel, and the root filesystem. After that, you will learn how to create each of these elements from scratch and automate the process using Buildroot and the Yocto Project. As you progress, the book will show you how to implement an effective storage strategy for flash memory chips and install updates to a device remotely once it's deployed. You'll also learn about the key aspects of writing code for embedded Linux, such as how

to access hardware from apps, the implications of writing multi-threaded code, and techniques to manage memory in an efficient way. The final chapters demonstrate how to debug your code, whether it resides in apps or in the Linux kernel itself. You'll also cover the different tracers and profilers that are available for Linux so that you can quickly pinpoint any performance bottlenecks in your system. By the end of this Linux book, you'll be able to create efficient and secure embedded devices using Linux. What you will learn Use Buildroot and the Yocto Project to create embedded Linux systems Troubleshoot BitBake build failures and streamline your Yocto development workflow Update IoT devices securely in the field using Mender or balena Prototype peripheral additions by reading schematics, modifying device trees, soldering breakout boards, and probing pins with a logic analyzer Interact with hardware without having to write kernel device

drivers Divide your system up into services supervised by BusyBox runit Debug devices remotely using GDB and measure the performance of systems using tools such as perf, ftrace, eBPF, and Callgrind Who this book is for If you're a systems software engineer or system administrator who wants to learn how to implement Linux on embedded devices, then this book is for you. It's also aimed at embedded systems engineers accustomed to programming for low-power microcontrollers, who can use this book to help make the leap to high-speed systems on chips that can run Linux. Anyone who develops hardware that needs to run Linux will find something useful in this book - but before you get started, you'll need a solid grasp on POSIX standard, C programming, and shell scripting.

Cloud Native with Kubernetes - Alexander Raul
2021-01-04
Harness Kubernetes' extensibility to deploy modern

patterns and learn to effectively handle production issues. Key Features: Build and run efficient cloud-native applications on Kubernetes using industry best practices. Operate Kubernetes in a production environment, troubleshoot clusters, and address security concerns. Deploy cutting-edge Kubernetes patterns such as service mesh and serverless to your cluster. Book Description: Kubernetes is a modern cloud native container orchestration tool and one of the most popular open source projects worldwide. In addition to the technology being powerful and highly flexible, Kubernetes engineers are in high demand across the industry. This book is a comprehensive guide to deploying, securing, and operating modern cloud native applications on Kubernetes. From the fundamentals to Kubernetes best practices, the book covers essential aspects of configuring applications. You'll even explore real-world techniques for running clusters in production, tips for setting

up observability for cluster resources, and valuable troubleshooting techniques. Finally, you'll learn how to extend and customize Kubernetes, as well as gaining tips for deploying service meshes, serverless tooling, and more on your cluster. By the end of this Kubernetes book, you'll be equipped with the tools you need to confidently run and extend modern applications on Kubernetes. What you will learn: Set up Kubernetes and configure its authentication. Deploy your applications to Kubernetes. Configure and provide storage to Kubernetes applications. Expose Kubernetes applications outside the cluster. Control where and how applications are run on Kubernetes. Set up observability for Kubernetes. Build a continuous integration and continuous deployment (CI/CD) pipeline for Kubernetes. Extend Kubernetes with service meshes, serverless, and more. Who this book is for: This book is for developers, architects, DevOps engineers,

or anyone interested in developing and managing cloud-native applications. Those already running cloud applications and looking for a better way to manage their platform or others interested in a career change given the recent popularity of Kubernetes will also find this book helpful. Some familiarity with cloud computing, containers and DevOps is required, but no prior knowledge of building production applications using Kubernetes is needed to get started with this book.

Журнал Computerworld Россия No11-12/2015 -

Открытые системы
2022-05-07

Computerworld Россия - ведущий международный еженедельник, посвященный информационным технологиям. В журнале вы найдете обзор важнейших событий ИТ-индустрии в России и в мире, материалы о новых технологиях. В номере: Аудиовизуально вместе На пятом форуме «Бизнес-Видео 2015»,

организованном «Журналом сетевых решений/LAN», обсуждались ключевые аспекты использования современных аудиовизуальных решений, при помощи которых формируется среда, позволяющая любому работнику начать интерактивное общение с коллегами по видеосвязи в любом месте, в любое время, и с мобильных, и со стационарных устройств. Технологические новинки обеспечивают пользователям улучшенное качество изображения и большую производительность видеосистем, а это открывает новые возможности для их использования в деловой среде, повышает продуктивность совместной работы. Участники форума обсудили принципы организации интегрированных корпоративных систем управления видеоресурсами и ознакомились с успешными примерами внедрения решений на практике. ИТ

станут импортировать
этично Крупнейшие
российские дистрибьюторы,
западные вендоры и торговые
сети, присоединившиеся к
«Этической хартии», заявили
о готовности жить на
прозрачном рынке. ИТ-
аутсорсинг: быть или не
быть? Участники очередной
конференции itSMF в России
обсудили, какие факторы
необходимо учитывать при
выборе модели получения
ИТ-сервисов и какие риски
принимать во
внимание. «Ядро»
импортозамещения Национал
льная компьютерная
корпорация представила
образованную в прошлом
году компанию «КНС Групп»,
которая планирует
сформировать экосистему
создания ИТ-продуктов,
конкурентоспособных на
мировом рынке. Закону Мура
- 50 Вопросы о долговечности
закона Мура возникают
регулярно. И неизменно у
Intel находятся средства
продлить срок его действия -
используя новые материалы,
технологии, структуры

транзисторов. Квантовый
прорыв Исследователи из IBM
разработали технологию
коррекции ошибок,
призванную обеспечить
целостность вычислений с
использованием квантовых
битов. Это даст возможность
создать «универсальный»
квантовый компьютер. и
многое другое

Pipeline as Code - Mohamed
Labouardy 2021-11-23
Start thinking about your
development pipeline as a
mission-critical application.
Discover techniques for
implementing code-driven
infrastructure and CI/CD
workflows using Jenkins,
Docker, Terraform, and cloud-
native services. In Pipeline as
Code, you will master: Building
and deploying a Jenkins cluster
from scratch Writing pipeline
as code for cloud-native
applications Automating the
deployment of Dockerized and
Serverless applications
Containerizing applications
with Docker and Kubernetes
Deploying Jenkins on AWS,
GCP and Azure Managing,
securing and monitoring a

Jenkins cluster in production
Key principles for a successful
DevOps culture Pipeline as
Code is a practical guide to
automating your development
pipeline in a cloud-native,
service-driven world. You'll use
the latest infrastructure-as-
code tools like Packer and
Terraform to develop reliable
CI/CD pipelines for numerous
cloud-native applications.
Follow this book's insightful
best practices, and you'll soon
be delivering software that's
quicker to market, faster to
deploy, and with less last-
minute production bugs.
Purchase of the print book
includes a free eBook in PDF,
Kindle, and ePub formats from
Manning Publications. About
the technology Treat your
CI/CD pipeline like the real
application it is. With the
Pipeline as Code approach, you
create a collection of scripts
that replace the tedious web UI
wrapped around most CI/CD
systems. Code-driven pipelines
are easy to use, modify, and
maintain, and your entire CI
pipeline becomes more
efficient because you directly

interact with core components
like Jenkins, Terraform, and
Docker. About the book In
Pipeline as Code you'll learn to
build reliable CI/CD pipelines
for cloud-native applications.
With Jenkins as the backbone,
you'll programmatically control
all the pieces of your pipeline
via modern APIs. Hands-on
examples include building
CI/CD workflows for
distributed Kubernetes
applications, and serverless
functions. By the time you're
finished, you'll be able to swap
manual UI-based adjustments
with a fully automated
approach! What's inside Build
and deploy a Jenkins cluster on
scale Write pipeline as code for
cloud-native applications
Automate the deployment of
Dockerized and serverless
applications Deploy Jenkins on
AWS, GCP, and Azure Grasp
key principles of a successful
DevOps culture About the
reader For developers familiar
with Jenkins and Docker.
Examples in Go. About the
author Mohamed Labouardy is
the CTO and co-founder of
Crew.work, a Jenkins

contributor, and a DevSecOps evangelist. Table of Contents
PART 1 GETTING STARTED WITH JENKINS 1 What's CI/CD? 2 Pipeline as code with Jenkins PART 2 OPERATING A SELF-HEALING JENKINS CLUSTER 3 Defining Jenkins architecture 4 Baking machine images with Packer 5 Discovering Jenkins as code with Terraform 6 Deploying HA Jenkins on multiple cloud providers PART 3 HANDS-ON CI/CD PIPELINES 7 Defining a pipeline as code for microservices 8 Running automated tests with Jenkins 9 Building Docker images within a CI pipeline 10 Cloud-native applications on Docker Swarm 11 Dockerized microservices on K8s 12 Lambda-based serverless functions PART 4 MANAGING, SCALING, AND MONITORING JENKINS 13 Collecting continuous delivery metrics 14 Jenkins administration and best practices
Implementing DevOps on AWS
- Veselin Kantsev 2017-01-24
Bring the best out of DevOps and build, deploy, and maintain

applications on AWS About This Book Work through practical examples and gain DevOps best practices to successfully deploy applications on AWS Successfully provision and operate distributed application systems and your AWS infrastructure using DevOps Perform Continuous Integration and deployment and fine-tune the way you deliver on AWS Who This Book Is For This book is for system administrators and developers who manage AWS infrastructure and environments and are planning to implement DevOps in their organizations. Those aiming for the AWS Certified DevOps Engineer certification will also find this book useful. Prior experience of operating and managing AWS environments is expected. What You Will Learn Design and deploy infrastructure as code within your AWS Virtual Private Cloud Implement Continuous Integration using AWS Services Configure EC2 instances using SaltStack Implement

Continuous Deployment using Jenkins and the AWS CLI
Collect important metrics and log data to gain more insight into infrastructure and applications
Troubleshooting popular issues with some less known techniques using the AWS platform
In Detail
Knowing how to adopt DevOps in your organization is becoming an increasingly important skill for developers, whether you work for a start-up, an SMB, or an enterprise. This book will help you to drastically reduce the amount of time spent on development and increase the reliability of your software deployments on AWS using popular DevOps methods of automation. To start, you will get familiar with the concept of IaC and will learn to design, deploy, and maintain AWS infrastructure. Further on, you'll see how to design and deploy a Continuous Integration platform on AWS using either open source or AWS provided tools/services. Following on from the delivery part of the process, you will learn how to

deploy a newly created, tested, and verified artefact to the AWS infrastructure without manual intervention. You will then find out what to consider in order to make the implementation of Configuration Management easier and more effective. Toward the end of the book, you will learn some tricks and tips to optimize and secure your AWS environment. By the end of the book, you will have mastered the art of implementing DevOps practices onto AWS. Style and approach
This book is packed full of real-world examples demonstrating use cases that help you deploy DevOps best practices on AWS.
NGINX Cookbook - Derek Dejonghe 2022-07-19
NGINX is one of the most widely used web servers available today, in part because of its capabilities as a load balancer and reverse proxy server for HTTP and other network protocols. This cookbook provides easy-to-follow examples to real-world problems in application

delivery. The practical recipes will help you set up and use either the open source or commercial offering to solve problems in various use cases. For professionals who understand modern web architectures, such as n-tier or microservice designs, and common web protocols including TCP and HTTP, these recipes provide proven solutions for security, software load balancing, and monitoring and maintaining NGINX's application delivery platform. You'll also explore advanced features of both NGINX and NGINX Plus, the free and licensed versions of this server.

Application Delivery and Load Balancing in Microsoft

Azure - Derek DeJonghe
2020-12-04

With more and more companies moving on-premises applications to the cloud, software and cloud solution architects alike are busy investigating ways to improve load balancing, performance, security, and high availability for workloads. This practical book describes Microsoft

Azure's load balancing options and explains how NGINX can contribute to a comprehensive solution. Cloud architects Derek DeJonghe and Arlan Nugara take you through the steps necessary to design a practical solution for your network. Software developers and technical managers will learn how these technologies have a direct impact on application development and architecture. While the examples are specific to Azure, these load balancing concepts and implementations also apply to cloud providers such as AWS, Google Cloud, DigitalOcean, and IBM Cloud. Understand application delivery and load balancing-- and why they're important Explore Azure's managed load balancing options Learn how to run NGINX OSS and NGINX Plus on Azure Examine similarities and complementing features between Azure-managed solutions and NGINX Use Azure Front Door to define, manage, and monitor global routing for your web traffic Monitor application

performance using Azure and NGINX tools and plug-ins
Explore security choices using NGINX and Azure Firewall solutions

Infrastructure Automation with Terraform - Ankita Patil
2022-05-11

Use Terraform and Jenkins to implement Infrastructure as Code and Pipeline as Code across multi-cloud

environments **KEY FEATURES**

- Step-by-step guidelines for managing infrastructure across multiple cloud platforms.
- Expert-led coverage on managing Pipeline as Code using Jenkins.
- Includes images demonstrating how to manage AWS and Azure resources using Terraform Modules.

DESCRIPTION This book explains how to quickly learn and utilize Terraform to incorporate Infrastructure as Code into a continuous integration and continuous delivery pipeline. The book gives you the step-by-step instructions with screenshots and diagrams to make the learning more accessible and fun. This book discusses the

necessity of Infrastructure as a Code (IaC) and the many tools available for implementing IaC. You will gain the knowledge of resource creation, IAM roles, EC2 instances, elastic load balancers, and building terraform scripts, among other learnings. Next, you will explore projects and use-cases for implementing DevOps concepts like Continuous Integration, Infrastructure as Code, and Continuous Delivery. Finally, you learn about the Terraform Modules and how to establish networks and Kubernetes clusters on various cloud providers. Installing and configuring Jenkins and SonarQube in Cloud Environments will also be discussed. As a result of reading this book, you will be able to apply Infrastructure as Code and Pipeline as Code principles to major cloud providers such as AWS and Azure.

WHAT YOU WILL LEARN

- Create, manage, and maintain AWS and Microsoft Azure infrastructure.
- Using Packer, create AMIs and EC2 instances.
- Utilize Terraform

Apprenez à concevoir et à déployer des applications en utilisant les outils du cloud AWS. Le Cloud AWS est une plateforme de services développée par le Amazon. AWS, pour Amazon Web Services regroupe plus de 50 services répartis en diverses catégories telles que le stockage cloud, la puissance de calcul, l'analyse de données, l'intelligence artificielle ou même le développement de jeux vidéo. Ce livre va vous donner toutes les clés qui vous permettront la mise en oeuvre des différents services proposés afin de déployer vos applications à travers le cloud d'Amazon. Le cloud d'Amazon offre un niveau de sécurité et une souplesse inégalée dans le stockage et le traitement des données. Dans ce livre vous apprendrez entre autres à :

- Utiliser EC2 ou CloudFormation
- Déployer et gérer vos applications avec les outils AWS
- Automatiser la configuration et la gestion AWS avec Python et Puppet
- Gagner du temps en créant des composants réutilisables

Amazon Web Service Guide de l'administrateur - Les bonnes pratiques pour administrer le cloud d'Amazon - collection O'Reilly - Federico LUCIFREDI 2019-06-27

Apprenez à concevoir et à déployer des applications en utilisant les outils du cloud AWS. Le Cloud AWS est une plateforme de services développée par le Amazon. AWS, pour Amazon Web Services regroupe plus de 50 services répartis en diverses catégories telles que le stockage cloud, la puissance de calcul, l'analyse de données, l'intelligence artificielle ou même le développement de jeux vidéo. Ce livre va vous donner toutes les clés qui vous permettront la mise en oeuvre des différents services proposés afin de déployer vos applications à travers le cloud d'Amazon. Le cloud d'Amazon offre un niveau de sécurité et une souplesse inégalée dans le stockage et le traitement des données. Dans ce livre vous apprendrez entre autres à :

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- Gagner du temps en créant des composants réutilisables

Configurer un service DNS
avec Route 53 Collection
O'Reilly
Routledge - 2015
2015-01-13

Cloud Technologies - Roger
McHaney 2021-03-26
Contains a variety of cloud
computing technologies and
explores how the cloud can
enhance business operations
Cloud Technologies offers an
accessible guide to cloud-based
systems and clearly explains
how these technologies have
changed the way organizations
approach and implement their
computing infrastructure. The
author—a noted expert on the
topic—includes an overview of
cloud computing and addresses
business-related considerations
such as service level
agreements, elasticity,
security, audits, and practical
implementation issues. In
addition, the book covers
important topics such as
automation, infrastructure as
code, DevOps, orchestration,
and edge computing. Cloud
computing fundamentally
changes the way organizations

think about and implement IT
infrastructure. Any manager
without a firm grasp of basic
cloud concepts is at a huge
disadvantage in the modern
world. Written for all levels of
managers working in IT and
other areas, the book explores
cost savings and enhanced
capabilities, as well as
identifies different models for
implementing cloud
technologies and tackling cloud
business concerns. This
important book: Demonstrates
a variety of cloud computing
technologies and ways the
cloud can enhance business
operations Addresses data
security concerns in cloud
computing relevant to
corporate data owners Shows
ways the cloud can save money
for a business Offers a
companion website hosting
PowerPoint slides Written for
managers in the fields of
business, IT and cloud
computing, *Cloud Technologies*
describes cloud computing
concepts and related strategies
and operations in accessible
language.
[Learning Amazon Web Services](#)

(AWS) - Mark Wilkins

2019-07-02

The Practical, Foundational Technical Introduction to the World's #1 Cloud Platform Includes access to several hours of online training video: Mark Wilkins' expert training video library guides you through setting up core services and prepares you to deploy your own apps and resources. Learning Amazon Web Services (AWS) is the perfect foundational resource for all administrators, developers, project managers, and other IT professionals who want to plan and deploy AWS services and/or earn AWS certification. Top cloud trainer and evangelist Mark Wilkins teaches best practices that align with Amazon's Well-Architected Framework, introduces key concepts in the context of a running case study, carefully explains how core AWS services operate and integrate, and offers extensively tested tips for maximizing flexibility, security, and value. Companion online videos guide you step-by-step

through setting AWS compute, storage, networking, scale, security, automation, and more. Balance cost, compliance, and latency in your service designs Choose the right networking options for your virtual private cloud (VPC) Build, host, launch, manage, and budget for EC2 compute services Plan for scale and resiliency, and make informed decisions about AWS storage Enforce strict security, and automate to improve operational efficiency This book with companion training videos is a valuable learning tool for anyone seeking to demonstrate expertise through formal certification. WEB EDITION: All buyers of the book or ebook can register your book for access to a free online Web Edition of this title, which included videos embedded within the text, plus updates as they become available.

Application Delivery and Load Balancing in Microsoft

Azure - Derek DeJonghe

2020-12-04

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companies moving on-premises applications to the cloud, software and cloud solution architects alike are busy investigating ways to improve load balancing, performance, security, and high availability for workloads. This practical book describes Microsoft Azure's load balancing options and explains how NGINX can contribute to a comprehensive solution. Cloud architects Derek DeJonghe and Arlan Nugara take you through the steps necessary to design a practical solution for your network. Software developers and technical managers will learn how these technologies have a direct impact on application development and architecture. While the examples are specific to Azure, these load balancing concepts and implementations also apply to cloud providers such as AWS, Google Cloud, DigitalOcean, and IBM Cloud. Understand application delivery and load balancing-- and why they're important Explore Azure's managed load balancing options Learn how to

run NGINX OSS and NGINX Plus on Azure Examine similarities and complementing features between Azure-managed solutions and NGINX Use Azure Front Door to define, manage, and monitor global routing for your web traffic Monitor application performance using Azure and NGINX tools and plug-ins Explore security choices using NGINX and Azure Firewall solutions

Cloud Native Security Cookbook - Josh Armitage
2022-04-21

With the rise of the cloud, every aspect of IT has been shaken to its core. The fundamentals for building systems are changing, and although many of the principles that underpin security still ring true, their implementation has become unrecognizable. This practical book provides recipes for AWS, Azure, and GCP to help you enhance the security of your own cloud native systems. Based on his hard-earned experience working with some of the world's biggest enterprises and rapidly

has highlighted the power of both healthy and unhealthy information, so while healthcare and public health services have depended upon timely and accurate data and continually updated knowledge, social media has shown how unhealthy misinformation can be spread and amplified, reinforcing existing prejudices, conspiracy theories and political biases. This book presents the proceedings of MedInfo 2021, the 18th World Congress of Medical and Health Informatics, held as a virtual event from 2-4 October 2021, with pre-recorded presentations for all accepted submissions. The theme of the conference was One World, One Health - Global Partnership for Digital Innovation and submissions were requested under 5 themes: information and knowledge management; quality, safety and outcomes; health data science; human, organizational and social aspects; and global health informatics. The Programme

Committee received 352 submissions from 41 countries across all IMIA regions, and 147 full papers, 60 student papers and 79 posters were accepted for presentation after review and are included in these proceedings. Providing an overview of current work in the field over a wide range of disciplines, the book will be of interest to all those whose work involves some aspect of medical or health informatics.

Foundations of Scalable Systems - Ian Gorton

2022-06-30

In many systems, scalability becomes the primary driver as the user base grows. Attractive features and high utility breed success, which brings more requests to handle and more data to manage. But organizations reach a tipping point when design decisions that made sense under light loads suddenly become technical debt. This practical book covers design approaches and technologies that make it possible to scale an application quickly and cost-effectively.

Author Ian Gorton takes

software architects and developers through the principles of foundational distributed systems. You'll explore the essential ingredients of scalable solutions, including replication, state management, load balancing, and caching. Specific chapters focus on the implications of scalability for databases, microservices, and event-based streaming systems. You will focus on:

- Foundations of scalable systems: Learn basic design principles of scalability, its costs, and architectural tradeoffs
- Designing scalable services: Dive into service design, caching, asynchronous messaging, serverless processing, and microservices
- Designing scalable data systems: Learn data system fundamentals, NoSQL databases, and eventual consistency versus strong consistency
- Designing scalable streaming systems: Explore stream processing systems and scalable event-driven processing

DevOps Technical

Assessment - Lorelay Croce
2020-02-06

Nobel Captain is proud to support Employment Agencies, Head Hunters and IT Recruiters by publishing a series of Technical Assessment tools that will make the hiring process easier, more productive, and even faster.

Curso de PHP 8 y MySQL 8 - Luis Miguel Cabezas Granada
2021-04-15

Aprende uno de los lenguajes más utilizados en Internet y la base de datos más popular. PHP es uno de los lenguajes más utilizados en Internet presente en aplicaciones muy conocidas como WordPress, Joomla, Moodle o el propio Facebook. Desde sus inicios fue creado pensando en la sencillez de uso y en facilitar una curva de aprendizaje gradual al programador. Este libro cubre todos los aspectos necesarios para aprender PHP 8, una evolución del lenguaje original en la que se han invertido numerosos años en mejorar todos los aspectos tecnológicos del lenguaje, modernizándolo constantemente. El libro puede

dividirse en varios apartados lógicos: Una primera parte como introducción a lo que se puede hacer con PHP, una descripción de MySQL como motor principal de bases de datos, una tercera parte que añade capítulos donde se mezclan PHP y MySQL y una última sobre aspectos avanzados. Además cuenta con un capítulo introductorio a Laravel 8 para elevar tus conocimientos de PHP a la máxima potencia con este framework. Un recurso ideal para aprender de forma gradual a dominar las nuevas versiones de PHP y MySQL.

Amazon S3 Cookbook - Naoya Hashimoto 2015-08-27

Over 30 hands-on recipes that will get you up and running with Amazon Simple Storage Service (S3) efficiently About This Book Learn how to store, manage, and access your data with AWS SDKs Study the Amazon S3 pricing model and learn how to calculate costs by simulating practical scenarios Optimize your Amazon S3 bucket by following step-by-step instructions of how to

deliver your content with CloudFront, secure the S3 bucket with IAM, and lower costs with object life cycle management Who This Book Is For This book is for cloud developers who have experience of using Amazon S3 and are also familiar with Amazon S3. What You Will Learn Host a static website on Amazon S3 Calculate costs with AWS Simple Monthly Calculators Deploy a static website via CloudFormation Distribute your content via CloudFront Secure resources with bucket policies and IAM Protect objects using server-side and client-side encryption Enable Cross-Origin Resource Sharing Manage objects' life cycles to lower costs Optimize performance for uploading as well as downloading objects Enable S3 event notifications and create Lambda functions Manage common operations with AWS SDKs In Detail Amazon S3 is one of the most famous and trailblazing cloud object storage services, which is highly scalable, low-latency, and economical. Users only pay

for what they use and can store and retrieve any amount of data at any time over the Internet, which attracts Hadoop users who run clusters on EC2. The book starts by showing you how to install several AWS SDKs such as iOS, Java, Node.js, PHP, Python, and Ruby and shows you how to manage objects. Then, you'll be taught how to use the installed AWS SDKs to develop applications with Amazon S3. Furthermore, you will explore the Amazon S3 pricing model and will learn how to annotate S3 billing with cost allocation tagging. In addition to this, the book covers several practical recipes about how to distribute your content with CloudFront, secure your content with IAM, optimize Amazon S3 performance, and notify S3 events with Lambda. By the end of this book, you will be successfully implementing pro-level practices, techniques, and solutions in Amazon S3. Style and approach A step-by-step practical guide that will show you how to efficiently store, manage, and control your data

in Amazon S3.

NGINX Cookbook - Derek DeJonghe 2020

NGINX is one of the most widely used web servers available today, in part because of its capabilities as a load balancer and reverse proxy server for HTTP and other network protocols. This cookbook provides easy-to-follow examples to real-world problems in application delivery. The practical recipes will help you set up and use either the open source or commercial offering to solve problems in various use cases. For professionals who understand modern web architectures, such as n-tier or microservice designs, and common web protocols including TCP and HTTP, these recipes provide proven solutions for security, software load balancing, and monitoring and maintaining NGINX's application delivery platform. You'll also explore advanced features of both NGINX and NGINX Plus, the free and licensed versions of this server. You'll find recipes for: High-

performance load balancing
with HTTP, TCP, and UDP
Securing access through
encrypted traffic, secure links,
HTTP authentication
subrequests, and more
Deploying NGINX to Google
Cloud, AWS, and Azure cloud
computing services Setting up
and configuring NGINX
Controller Installing and
configuring the NGINX Plus
App Protect module Enabling
WAF through Controller App
Security.

TypeScript Microservices -

Parth Ghiya 2018-05-30

Build robust microservice-
based applications that are
distributed, fault tolerant, and
always available Key Features
Learn to build message-driven
services for effective
communication Design
microservices API using
Reactive programming design
patterns Deploy, scale and
monitor microservices for
consistent high performance
Book Description In the last
few years or so, microservices
have achieved the rock star
status and right now are one of
the most tangible solutions in

enterprises to make quick,
effective, and scalable
applications. The apparent rise
of Typescript and long
evolution from ES5 to ES6 has
seen lots of big companies
move to ES6 stack. If you want
to learn how to leverage the
power of microservices to build
robust architecture using
reactive programming and
Typescript in Node.js, then this
book is for you. Typescript
Microservices is an end-to-end
guide that shows you the
implementation of
microservices from scratch;
right from starting the project
to hardening and securing your
services. We will begin with a
brief introduction to
microservices before learning
to break your monolith
applications into microservices.
From here, you will learn
reactive programming patterns
and how to build APIs for
microservices. The next set of
topics will take you through the
microservice architecture with
TypeScript and communication
between services. Further, you
will learn to test and deploy
your TypeScript microservices

using the latest tools and implement continuous integration. Finally, you will learn to secure and harden your microservice. By the end of the book, you will be able to build production-ready, scalable, and maintainable microservices using Node.js and Typescript. What you will learn Get acquainted with the fundamentals behind microservices. Explore the behavioral changes needed for moving from monolithic to microservices. Dive into reactive programming, Typescript and Node.js to learn its fundamentals in microservices Understand and design a service gateway and service registry for your microservices. Maintain the state of microservice and handle dependencies. Perfect your microservice with unit testing and Integration testing Develop a microservice, secure it, deploy it, and then scale it Who this book is for This book is for JavaScript developers seeking to utilize their Node.js and Typescript skills to build microservices and move away

from the monolithic architecture. Prior knowledge of TypeScript and Node.js is assumed.

NGINX Cookbook - Derek DeJonghe 2022-05-16

NGINX is one of the most widely used web servers available today, in part because of its capabilities as a load balancer and reverse proxy server for HTTP and other network protocols. This revised cookbook provides easy-to-follow examples of real-world problems in application delivery. The practical recipes will help you set up and use either the open source or commercial offering to solve problems in various use cases. For professionals who understand modern web architectures, such as n-tier or microservice designs and common web protocols such as TCP and HTTP, these recipes provide proven solutions for security and software load balancing and for monitoring and maintaining NGINX's application delivery platform. You'll also explore advanced features of both NGINX and

NGINX Plus, the free and licensed versions of this server. You'll find recipes for: High-performance load balancing with HTTP, TCP, and UDP Securing access through encrypted traffic, secure links, HTTP authentication subrequests, and more Deploying NGINX to Google, AWS, and Azure cloud computing services Setting up and configuring NGINX Controller Installing and configuring the NGINX App Protect module Enabling WAF through Controller ADC NGINX Instance Manager (new chapter) New recipes for NGINX Service Mesh, HTTP3 and QUIC, and the njs module

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Instance Manager (new chapter) New recipes for NGINX Service Mesh, HTTP3 and QUIC, and the njs module
AWS Certified Solutions Architect - Associate - VB Dev
2021-01-08

AWS Certified Solutions Architect Associate (SAA-C02)
The AWS Certified Solutions Architect - Associate examination is intended for individuals who perform a solutions architect role and have one or more years of hands-on experience designing available, cost-efficient, fault-tolerant, and scalable distributed systems on AWS. Abilities Validated by the Certification Effectively demonstrate knowledge of how to architect and deploy secure and robust applications on AWS technologies Define a solution using architectural design principles based on customer requirements Provide implementation guidance based on best practices to the organization throughout the life cycle of the project Recommended Knowledge and Experience Hands-on

experience using compute, networking, storage, and database AWS services Hands-on experience with AWS deployment and management services Ability to identify and define technical requirements for an AWS-based application Ability to identify which AWS services meet a given technical requirement Knowledge of recommended best practices for building secure and reliable applications on the AWS platform An understanding of the basic architectural principles of building on the AWS Cloud An understanding of the AWS global infrastructure An understanding of network technologies as they relate to AWS An understanding of security features and tools that AWS provides and how they relate to traditional services 435+ most up-to-date and unique questionnaires verified by our extensive years of experienced experts to prepare for AWS Certified Solutions Architect - Associate (SAA-C02) exam. We proud to says that, many students have easily

cleared the exam with good score by practiced these questions and personal study guides. Don't hesitate!!! Please buy the book confidently because we always update the book with current level exam questions so that you can fully prepared for the actual exam.

Hands-On Microservices - Monitoring and Testing -

Dinesh Rajput 2018-10-30

Learn and implement various techniques related to testing, monitoring and optimization for microservices architecture.

Key Features Learn different approaches for testing microservices to design and implement, robust and secure applications Become more efficient while working with microservices Explore Testing and Monitoring tools such as JMeter, Ready API, and AppDynamics Book Description Microservices are the latest "right" way of developing web applications. Microservices architecture has been gaining momentum over the past few years, but once you've started down the microservices path, you need to test and optimize

the services. This book focuses on exploring various testing, monitoring, and optimization techniques for microservices. The book starts with the evolution of software architecture style, from monolithic to virtualized, to microservices architecture. Then you will explore methods to deploy microservices and various implementation patterns. With the help of a real-world example, you will understand how external APIs help product developers to focus on core competencies. After that, you will learn testing techniques, such as Unit Testing, Integration Testing, Functional Testing, and Load Testing. Next, you will explore performance testing tools, such as JMeter, and Gatling. Then, we deep dive into monitoring techniques and learn performance benchmarking of the various architectural components. For this, you will explore monitoring tools such as Appdynamics, Dynatrace, AWS CloudWatch, and Nagios. Finally, you will learn to

identify, address, and report various performance issues related to microservices. What you will learn Understand the architecture of microservices and how to build services Establish how external APIs help to accelerate the development process Understand testing techniques, such as unit testing, integration testing, end-to-end testing, and UI/functional testing Explore various tools

related to the performance testing, monitoring, and optimization of microservices Design strategies for performance testing Identify performance issues and fine-tune performance Who this book is for This book is for developers who are involved with microservices architecture to develop robust and secure applications. Basic knowledge of microservices is essential in order to get the most out of this book.