

ACI Apps

Brett Hargreaves, Sjoukje Zaal

Deploying ACI Frank Dagenhardt, Jose Moreno, Bill Dufresne, 2018-02-28 Use ACI fabrics to drive unprecedented value from your data center environment With the Cisco Application Centric Infrastructure (ACI) software-defined networking platform, you can achieve dramatic improvements in data center performance, redundancy, security, visibility, efficiency, and agility. In *Deploying ACI*, three leading Cisco experts introduce this breakthrough platform, and walk network professionals through all facets of design, deployment, and operation. The authors demonstrate how ACI changes data center networking, security, and management; and offer multiple field-proven configurations. *Deploying ACI* is organized to follow the key decision points associated with implementing data center network fabrics. After a practical introduction to ACI concepts and design, the authors show how to bring your fabric online, integrate virtualization and external connections, and efficiently manage your ACI network. You'll master new techniques for improving visibility, control, and availability; managing multitenancy; and seamlessly inserting service devices into application data flows. The authors conclude with expert advice for troubleshooting and automation, helping you deliver data center services with unprecedented efficiency. Understand the problems ACI solves, and how it solves them Design your ACI fabric, build it, and interface with devices to bring it to life Integrate virtualization technologies with your ACI fabric Perform networking within an ACI fabric (and understand how ACI changes data center networking) Connect external networks and devices at Layer 2/Layer 3 levels Coherently manage unified ACI networks with tenants and application policies Migrate to granular policies based on applications and their functions Establish multitenancy, and evolve networking, security, and services to support it Integrate L4-7 services: device types, design scenarios, and implementation Use multisite designs to meet rigorous requirements for redundancy and business continuity Troubleshoot and monitor ACI fabrics Improve operational efficiency through automation and programmability

A Developer's Guide to Cloud Apps Using Microsoft Azure Hamida Rebai Trabelsi, Marc-Andre Laniel, 2023-02-17 Build and deploy modern and secure applications on Microsoft Azure by implementing best practices, patterns, and new technologies with this easy-to-follow guide Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn various methods to migrate legacy applications to cloud using different Azure services Implement continuous integration and deployment as a best practice for DevOps and agile development Get started with building cloud-based applications using containers and orchestrators in different scenarios Book Description Companies face several challenges during cloud adoption, with developers and architects needing to migrate legacy applications and build cloud-oriented applications using Azure-based technologies in different environments. *A Developer's Guide to Cloud Apps Using Microsoft Azure* helps you learn how to migrate old apps to Azure using the Cloud Adoption Framework and presents use cases, as well as build market-ready secure and reliable applications. The book begins by introducing you to the benefits of moving legacy apps to the cloud and modernizing existing ones using a set of new technologies and approaches. You'll then learn how to use technologies and patterns to build cloud-oriented applications. This app development book takes you on a journey through three major services in Azure, namely Azure Container Registry, Azure Container Instances, and Azure Kubernetes Service, which will help you build and deploy an application based on microservices. Finally, you'll be able to implement continuous integration and deployment in Azure to fully automate the software delivery process, including the build and release processes. By the end of this book, you'll be able to perform application migration assessment and planning, select the right Azure services, and create and implement a new cloud-oriented application using Azure containers and orchestrators. What you will learn Get to grips with new patterns and technologies used for

cloud-native applicationsMigrate old applications and databases to Azure with easeWork with containers and orchestrators to automate app deploymentSelect the right Azure service for deployment as per the use casesSet up CI/CD pipelines to deploy apps and services on Azure DevOpsLeverage Azure App Service to deploy your first applicationBuild a containerized app using Docker and Azure Container RegistryWho this book is for This book is for cloud developers, software architects, system administrators, developers, and computer science students looking to understand the new role of the software architect or developer in the cloud world. Professionals looking to enhance their cloud and cloud-native programming concepts will also find this book useful. A sound background in C#, ASP.NET Core, and Visual Studio (any recent version) and basic knowledge of cloud computing will be helpful.

The Best iPhone, Android, and BlackBerry Apps ,

Migrating Applications to the Cloud with Azure Sjoukje Zaal,Amit Malik,Sander Rossel,Jason Marston,Mohamed Wali,Stefano Demiliani,2019-12-06 Modernize your apps with Microsoft Azure by moving web, desktop, and mobile apps to the cloud Key FeaturesDecide which migration strategy is most suitable for your organization and create a migration roadmapMove existing infrastructure to Azure and learn strategies to reduce cost, increase storage, and improve ROIDesign secure, scalable, and cost-effective solutions with the help of practical examplesBook Description Whether you are trying to re-architect a legacy app or build a cloud-ready app from scratch, using the Azure ecosystem with .NET and Java technologies helps you to strategize and plan your app modernization process effectively. With this book, you'll learn how to modernize your applications by using Azure for containerization, DevOps, microservices, and serverless solutions to reduce development time and costs, while also making your applications robust, secure, and scalable. You will delve into improving application efficiency by using container services such as Azure Container Service, Azure Kubernetes Service (AKS), and more. Next, you will learn to modernize your application by implementing DevOps throughout your application development life cycle. You will then focus on increasing the scalability and performance of your overall application with microservices, before learning how to add extra functionality to your application with Azure serverless solutions. Finally, you'll get up to speed with monitoring and troubleshooting techniques. By the end of this book, you will have learned how to use the Azure ecosystem to refactor, re-architect, and rebuild your web, mobile, and desktop applications. What you will learnUse DevOps and containerization technologies to modernize your applications and infrastructureBuild microservices using Azure Service FabricDevelop scalable applications using Azure FunctionsManage and deploy your application code and database connectivitySecure and monitor your applications in Azure effectivelyDesign for high availability and disaster recoveryWho this book is for This book is for .NET and Java developers who want to modernize their applications using Azure. Solution architects and experienced developers interested in modernizing legacy applications using Azure will also find this book useful. Some prior understanding of cloud computing concepts will be beneficial.

Implementing Microsoft Azure Architect Technologies: AZ-303 Exam Prep and Beyond Brett Hargreaves,Sjoukje Zaal,2020-12-18 Become a certified Azure Architect and learn how to design effective solutions that span compute, security, networking, and development Key FeaturesDiscover how you can design and architect powerful and cost-effective solutions on Microsoft AzurePrepare to achieve AZ-303 certification with the help of mock tests and practice questionsEnhance your computing, networking, storage, and security skills to design modern cloud-based solutionsBook Description From designing solutions on Azure to configuring and managing virtual networks, the AZ-303 certification validates your knowledge and skills for all this and much more. Whether you want to take the certification exam or gain hands-on experience in administering, developing, and

architecting Azure solutions, this study guide will help you get started. Divided into four modules, this book systematically takes you through the wide range of concepts and features covered in the AZ-303 exam. The first module demonstrates how to implement and monitor infrastructure. You'll develop the skills required to deploy and manage core Azure components such as virtual machines, networking, storage, and Active Directory (AD). As you progress, you'll build on that knowledge and learn how to create resilient and secure applications before moving on to working with web apps, functions, and containers. The final module will get you up to speed with data platforms such as SQL and Cosmos DB, including how to configure the different high availability options. Finally, you'll solve mock tests and assess yourself with the answers provided to get ready to take the exam with confidence. By the end of this book, you'll have learned the concepts and techniques you need to know to prepare for the AZ-303 exam and design effective solutions on Microsoft Azure. What you will learn

- Manage Azure subscriptions and resources
- Ensure governance and compliance with policies, roles, and blueprints
- Build, migrate, and protect servers in Azure
- Configure, monitor, and troubleshoot virtual networks
- Manage Azure AD and implement multi-factor authentication
- Configure hybrid integration with Azure AD Connect
- Find out how you can monitor costs, performance, and security
- Develop solutions that use Cosmos DB and Azure SQL Database

Who this book is for This book is for solution architects and experienced developers who advise stakeholders and translate business requirements into secure, scalable, and reliable solutions. Technical architects interested in learning more about designing cloud solutions will also find this book useful. Prior experience and knowledge of various aspects of IT operations, including networking, security, business continuity, disaster recovery, budgeting, and governance, will assist with understanding the concepts covered in the book.

Azure Integration Guide for Business Joshua Garverick, Jack Lee, Mélony Qin, Trevor Williams, 2023-09-28

Leverage the cloud to optimize costs, improve security, and seamlessly scale your business operations

Key Features

- Achieve your operational goals with Azure infrastructure
- Optimize costs with serverless event-driven solutions through Azure cloud patterns
- Boost productivity with Azure architecture's flexibility and scalability

Purchase of the print or Kindle book includes a free PDF eBook

Book Description

Azure Integration Guide for Business is essential for decision makers planning to transform their business with Microsoft Azure. The Microsoft Azure cloud platform can improve the availability, scalability, and cost-efficiency of any business. The guidance in this book will help decision makers gain valuable insights into proactively managing their applications and infrastructure. You'll learn to apply best practices in Azure Virtual Network and Azure Storage design, ensuring an efficient and secure cloud infrastructure. You'll also discover how to automate Azure through Infrastructure as Code (IaC) and leverage various Azure services to support OLTP applications. Next, you'll explore how to implement Azure offerings for event-driven architectural solutions and serverless applications. Additionally, you'll gain in-depth knowledge on how to develop an automated, secure, and scalable solutions. Core elements of the Azure ecosystem will be discussed in the final chapters of the book, such as big data solutions, cost governance, and best practices to help you optimize your business. By the end of this book, you'll understand what a well-architected Azure solution looks like and how to lead your organization toward a tailored Azure solution that meets your business needs.

What you will learn

- Optimize the performance and costs with Azure Select
- an effective, scalable, and flexible solution that aligns with your needs
- Harness the power of containers to drive your application development and deployment
- Create big data solutions with the best Azure tools, platforms, and resources
- Explore the benefits of automation for enhanced productivity
- Improve the availability and effectiveness of monitoring with Azure

Who this book is for

This book is for business decision makers looking to benefit from the flexibility, scalability, and optimized costs offered by Microsoft

Azure to scale their businesses. Basic knowledge of Azure is recommended to get the most out of this book.

Microsoft Azure Architect Technologies: Exam Guide AZ-300 Sjoukje Zaal, 2020-01-16
Become a certified Azure Architect and learn to design effective solutions that span compute, security, networking, and development
Key Features
Learn to successfully design and architect powerful and cost-effective solutions on Microsoft Azure
Prepare to gain AZ-300 certification with the help of mock tests and practice questions
Enhance your computing, networking, storage, and security skills to design modern cloud-based solutions
Book Description
From designing solutions on Azure to configuring and managing virtual networks, AZ-300 certification can help you achieve all this and more. Whether you want to get certified or gain hands-on experience in administering, developing, and architecting Azure solutions, this study guide will help you get started. The book features not only the different exam objectives, but also guides you through configuring, managing, securing, and architecting Azure resources. Divided into five modules, this book will systematically take you through the different concepts and features as you advance through the sections. The first module demonstrates how to deploy and configure infrastructure. You will cover techniques related to implementing workloads and security, before learning how to create and deploy apps in the next module. To build on your knowledge, the final two modules will get you up to speed with implementing authentication, data security, and application and platform monitoring, along with covering Azure storage, alerting, and automation strategies. Finally, you'll work through exam-based mock tests with answers to boost your confidence in passing the exam. By the end of this book, you'll have learned the concepts and techniques you need to know in order to prepare for the AZ-300 exam, along with the skills to design effective solutions on Microsoft Azure. What you will learn
Manage Azure subscriptions and resources
Understand how to migrate servers to Azure
Configure and manage virtual networks
Monitor and troubleshoot virtual network connectivity
Manage Azure Active Directory (Azure AD)
Connect and implement multi-factor authentication
Implement and manage hybrid identities
Develop solutions that use Cosmos DB and the Azure SQL Database
Get to grips with implementing secure data solutions
Who this book is for
This book is for solution architects and experienced developers who advise stakeholders and translate business requirements into secure, scalable, and reliable solutions. Technical architects interested in learning more about designing cloud solutions will also find this book useful. Some experience and knowledge of various aspects of IT operations, including networking, security, business continuity, disaster recovery, budgeting, and governance are required to grasp the concepts covered in the book effectively.

Getting Started with Containers in Azure Shimon Ifrah, 2020-02-28
Deploy and execute Microsoft Azure container and containerized applications on Azure. This second book in author Shimon Ifrah's series on containers will help you manage and scale containers along with their applications, tools and services. You'll start by setting up the Azure environment and quickly work through techniques and methods of managing container images with Azure Container Registry (ACR). As you move forward, deploying containerized applications with Azure container instances and Azure Kubernetes Service is discussed in detail, and in the process, you'll see how to install Docker container host on Azure Virtual Machine. This is followed by a discussion on security in Azure containers where you'll learn how to monitor containers and containerized applications backed by illustrative examples. Next, you will review how to scale containers along with methods for backing up and restoring containers and containerized applications on Azure. Towards the end, the book demonstrates troubleshooting applications and Docker container host issues in Azure. *Getting Started with Containers in Azure* will equip you to deploy, manage and secure containerized applications using Azure tools and services for containers. What You'll Learn
Explore

containers on Microsoft Azure. Store Docker images on Azure Container Registry Automate deployment of container services using Azure CLI and Azure Cloud Shell Use Azure Container Instances (ACI) for smaller deployment Who This Book Is For Azure administrators, developers, and architects who want to get started and learn more about containers and containerized applications on Microsoft Azure.

Microsoft Certified Azure Fundamentals Study Guide James Boyce, 2021-04-13 Quickly preps technical and non-technical readers to pass the Microsoft AZ-900 certification exam Microsoft Certified Azure Fundamentals Study Guide: Exam AZ-900 is your complete resource for preparing for the AZ-900 exam. Microsoft Azure is a major component of Microsoft's cloud computing model, enabling organizations to host their applications and related services in Microsoft's data centers, eliminating the need for those organizations to purchase and manage their own computer hardware. In addition, serverless computing enables organizations to quickly and easily deploy data services without the need for servers, operating systems, and supporting systems. This book is targeted at anyone who is seeking AZ-900 certification or simply wants to understand the fundamentals of Microsoft Azure. Whatever your role in business or education, you will benefit from an understanding of Microsoft Azure fundamentals. Readers will also get one year of FREE access to Sybex's superior online interactive learning environment and test bank, including hundreds of questions, a practice exam, electronic flashcards, and a glossary of key terms. This book will help you master the following topics covered in the AZ-900 certification exam: Cloud concepts Cloud types (Public, Private, Hybrid) Azure service types (IaaS, SaaS, PaaS) Core Azure services Security, compliance, privacy, and trust Azure pricing levels Legacy and modern lifecycles Growth in the cloud market continues to be very strong, and Microsoft is poised to see rapid and sustained growth in its cloud share. Written by a long-time Microsoft insider who helps customers move their workloads to and manage them in Azure on a daily basis, this book will help you break into the growing Azure space to take advantage of cloud technologies.

Data Pipelines with Apache Airflow Bas P. Harenslak, Julian de Ruiter, 2021-04-27 This book teaches you how to build and maintain effective data pipelines. You'll explore the most common usage patterns, including aggregating multiple data sources, connecting to and from data lakes, and cloud deployment. --

Cisco Cloud Infrastructure Avinash Shukla, Jalpa Patel, Komal Panzade, Himanshu Sardana, 2023-02-10 Manage, operate, and integrate existing infrastructure in hybrid and multicloud environments Hybrid cloud adoption is accelerating, as companies discover that hybrid cloud architectures can reduce hosting costs, improve agility, promote scalability, accelerate deployment, and enhance security. Cisco Cloud Infrastructure is the definitive reference for every IT professional, IT manager, and CIO who needs to understand, implement, or manage Cisco hybrid cloud solutions for networking, compute, storage, applications, or security. Bringing together crucial information, a team of leading Cisco architects present end-to-end insights for seamlessly integrating management and operation of public cloud resources and on-premises deployments. The authors describe each Cisco solution and offering in detail, from both technical and business viewpoints. They review each leading deployment option, reviewing key concepts, best practices, guidelines, tradeoffs, design do's and don'ts, case studies, and more. Cisco Cloud Infrastructure contains many configuration examples--including topologies, configuration, and verification--each based on actual Cisco Cloud deployments, and specifically designed to help you drive value faster. Use Cisco data center orchestration software to automate tasks and operations, and enable an agile DevOps approach to continual improvement Gain big-picture insights and actionable drill-down data from the Cisco API-driven monitoring and assurance solutions Optimize workloads across clouds, on-premises data centers, labs, and co-location facilities for scale, performance, agility, and value Use AppDynamics enterprise-

grade performance cloud monitoring and analytics tools to identify issues and overcome growth challenges Efficiently manage modern workloads with Intersight Workload Optimization Manager, Cisco Container Platform, and Intersight Kubernetes Service (IKS) Manage interdependencies between networks, compute, storage, application, and security in hybrid cloud environments Take advantage of Cisco Cloud Webex to improve collaboration in hybrid/multicloud environments Integrate operational hardware with the Internet of Things (IoT) to gain deeper insight for greater efficiency Protect users, data, and applications everywhere with Cloudlock, Umbrella, Cloud Analytics, Duo, and API-based integrations

Deep Learning with Azure Mathew Salvaris,Danielle Dean,Wee Hyong Tok,2018-08-24

Get up-to-speed with Microsoft's AI Platform. Learn to innovate and accelerate with open and powerful tools and services that bring artificial intelligence to every data scientist and developer. Artificial Intelligence (AI) is the new normal. Innovations in deep learning algorithms and hardware are happening at a rapid pace. It is no longer a question of should I build AI into my business, but more about where do I begin and how do I get started with AI? Written by expert data scientists at Microsoft, Deep Learning with the Microsoft AI Platform helps you with the how-to of doing deep learning on Azure and leveraging deep learning to create innovative and intelligent solutions. Benefit from guidance on where to begin your AI adventure, and learn how the cloud provides you with all the tools, infrastructure, and services you need to do AI. What You'll Learn Become familiar with the tools, infrastructure, and services available for deep learning on Microsoft Azure such as Azure Machine Learning services and Batch AI Use pre-built AI capabilities (Computer Vision, OCR, gender, emotion, landmark detection, and more) Understand the common deep learning models, including convolutional neural networks (CNNs), recurrent neural networks (RNNs), generative adversarial networks (GANs) with sample code and understand how the field is evolving Discover the options for training and operationalizing deep learning models on Azure Who This Book Is For Professional data scientists who are interested in learning more about deep learning and how to use the Microsoft AI platform. Some experience with Python is helpful.

Microsoft Azure Fundamentals Certification and Beyond Steve Miles,2024-01-25

Advance your career by learning how to apply Azure Fundamentals effectively with this comprehensive guide, accompanied by web-based tools such as mock exams, flashcards, and hands-on activities Key Features Master the fundamentals of Azure through a comprehensive exploration of compute, network, and storage services Learn essential tools and strategies for securing, governing, and administering Azure effectively Use the mobile-friendly bonus website that comes with the book to gain ample practice on the go Book DescriptionMicrosoft Azure Fundamentals Certification and Beyond, Second Edition, combines the comprehensive cloud fundamentals book with Packt's powerful exam training platform, offering a holistic learning experience designed to help you not just ace the AZ-900 exam but also apply that knowledge to excel in your career. Guiding you in building robust foundational knowledge of the Microsoft Azure cloud platform, this book helps you prepare for the AZ-900 exam confidently. The online content, included with every purchase, will help you memorize key concepts and assess your exam readiness. Starting with an introduction to cloud computing and its advantages, the book systematically guides you through Azure architecture and services before progressing to management and governance within Azure. The online platform unlocks unlimited access to mock exams with exam-like timers, detailed solutions for each question, interactive flashcards, exam tips, and interactive activities—all accessible from your computer, tablet, and smartphone. By the end of this book, you'll be well prepared to pass the AZ-900 exam and have the foundational knowledge to delve into advanced cloud concepts.What you will learn Become proficient in foundational cloud concepts Develop a solid understanding of core components

of the Microsoft Azure cloud platform Get to grips with Azure's core services, deployment, and management tools Implement security concepts, operations, and posture management Explore identity, governance, and compliance features Gain insights into resource deployment, management, and monitoring Who this book is for This Azure fundamentals book is for individuals with technical or non-technical backgrounds who want to learn and explore the field of cloud computing with Microsoft Azure. There are no prerequisites to get started, only a willingness to learn and explore cloud concepts and Microsoft Azure.

Exam Ref AZ-304 Microsoft Azure Architect Design Certification and Beyond

Brett Hargreaves, 2021-07-23 Master the Microsoft Azure platform and prepare for the AZ-304 certification exam by learning the key concepts needed to identify key stakeholder requirements and translate these into robust solutions Key Features Build secure and scalable solutions on the Microsoft Azure platform Learn how to design solutions that are compliant with customer requirements Work with real-world scenarios to become a successful Azure architect, and prepare for the AZ-304 exam Book Description The AZ-304 exam tests an architect's ability to design scalable, reliable, and secure solutions in Azure based on customer requirements. Exam Ref AZ-304 Microsoft Azure Architect Design Certification and Beyond offers complete, up-to-date coverage of the AZ-304 exam content to help you prepare for it confidently, pass the exam first time, and get ready for real-world challenges. This book will help you to investigate the need for good architectural practices and discover how they address common concerns for cloud-based solutions. You will work through the CloudStack, from identity and access through to infrastructure (IaaS), data, applications, and serverless (PaaS). As you make progress, you will delve into operations including monitoring, resilience, scalability, and disaster recovery. Finally, you'll gain a clear understanding of how these operations fit into the real world with the help of full scenario-based examples throughout the book. By the end of this Azure book, you'll have covered everything you need to pass the AZ-304 certification exam and have a handy desktop reference guide. What you will learn Understand the role of architecture in the cloud Ensure security through identity, authorization, and governance Find out how to use infrastructure components such as compute, containerization, networking, and storage accounts Design scalable applications and databases using web apps, functions, messaging, SQL, and Cosmos DB Maintain operational health through monitoring, alerting, and backups Discover how to create repeatable and reliable automated deployments Understand customer requirements and respond to their changing needs Who this book is for This book is for Azure Solution Architects who advise stakeholders and help translate business requirements into secure, scalable, and reliable solutions. Junior architects looking to advance their skills in the Cloud will also benefit from this book. Experience with the Azure platform is expected, and a general understanding of development patterns will be advantageous.

Azure Architecture Explained David Rendón, Brett Hargreaves, 2023-09-22 Enhance your career as an Azure architect with cutting-edge tools, expert guidance, and resources from industry leaders Key Features Develop your business case for the cloud with technical guidance from industry experts Address critical business challenges effectively by leveraging proven combinations of Azure services Tackle real-world scenarios by applying practical knowledge of reference architectures Purchase of the print or Kindle book includes a free PDF eBook Book Description Azure is a sophisticated technology that requires a detailed understanding to reap its full potential and employ its advanced features. This book provides you with a clear path to designing optimal cloud-based solutions in Azure, by delving into the platform's intricacies. You'll begin by understanding the effective and efficient security management and operation techniques in Azure to implement the appropriate configurations in Microsoft Entra ID. Next, you'll explore how to modernize your applications for the cloud, examining the different computation and storage options, as well

as using Azure data solutions to help migrate and monitor workloads. You'll also find out how to build your solutions, including containers, networking components, security principles, governance, and advanced observability. With practical examples and step-by-step instructions, you'll be empowered to work on infrastructure-as-code to effectively deploy and manage resources in your environment. By the end of this book, you'll be well-equipped to navigate the world of cloud computing confidently.

What you will learn

- Implement and monitor cloud ecosystem including, computing, storage, networking, and security
- Recommend optimal services for performance and scale
- Provide, monitor, and adjust capacity for optimal results
- Craft custom Azure solution architectures
- Design computation, networking, storage, and security aspects in Azure
- Implement and maintain Azure resources effectively

Who this book is for This book is an indispensable resource for Azure architects looking to develop cloud-based services along with deploying and managing applications within the Microsoft Azure ecosystem. It caters to professionals responsible for crucial IT operations, encompassing budgeting, business continuity, governance, identity management, networking, security, and automation. If you have prior experience in operating systems, virtualization, infrastructure, storage structures, or networking, and aspire to master the implementation of best practices in the Azure cloud, then this book will become your go-to guide.

Security for Cloud Native Applications Eyal Estrin, 2024-03-26 Your practical handbook for securing cloud-native applications

KEY FEATURES

- An overview of security in cloud-native applications, such as modern architectures, containers, CI/CD pipeline, and so on.
- Using automation, such as infrastructure as code and policy as code, to achieve security at scale.
- Implementing security, from encryption and secrets management to threat management.

DESCRIPTION Security for cloud-native applications is an overview of cloud-native application's characteristics from a security point of view, filled with best practices for securing services based on AWS, Azure, and GCP infrastructure. This book is a practical guide for securing cloud-native applications throughout their lifecycle. It establishes foundational knowledge of cloud services and cloud-native characteristics. It focuses on securing design approaches like APIs, microservices, and event-driven architectures. Specific technologies like containers, Kubernetes, and serverless functions are covered with security best practices. The book emphasizes integrating security throughout development using CI/CD pipelines and IaC tools. It explores policy as code for enforcing security policies and immutable infrastructure for enhanced security posture. Key management and threat detection strategies are also covered. Finally, the book offers a practical example and resources for further learning. By the end of the book, the reader will be able to design and secure modern applications using the public cloud scale, managed services, automation, and built-in security controls.

WHAT YOU WILL LEARN

- How to secure modern design architectures from APIs, event-driven architectures, and microservices.
- How to secure applications using containers and the Kubernetes platform.
- How to secure applications using serverless/function-as-a-service.
- How to implement key and secrets management as part of cloud-native applications.
- How to implement the 12-factor application methodology and immutable infrastructure in cloud-native applications.

WHO THIS BOOK IS FOR This book is for security professionals, software development teams, DevOps and cloud architects, and all those who are designing, maintaining, and securing cloud-native applications.

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Mastering Kubernetes Gigi Sayfan, 2020-06-30 Go beyond simply learning Kubernetes fundamentals and its deployment, and explore more advanced concepts, including serverless computing and service meshes with the latest updates Key Features Master Kubernetes architecture and design to build and deploy secure distributed applications Learn advanced concepts like autoscaling, cluster federation, serverless computing, and service mesh integration for observability Explore Kubernetes 1.18 features and its rich ecosystem of tools like Kubectl, Knative, and Helm Book Description The third edition of *Mastering Kubernetes* is updated with the latest tools and code enabling you to learn Kubernetes 1.18's latest features. This book primarily concentrates on diving deeply into complex concepts and Kubernetes best practices to help you master the skills of designing and deploying large clusters on various cloud platforms. The book trains you to run complex stateful microservices on Kubernetes including advanced features such as horizontal pod autoscaling, rolling updates, resource quotas, and persistent storage backend. With the two new chapters, you will gain expertise in serverless computing and utilizing service meshes. As you proceed through the chapters, you will explore different options for network configuration and learn to set up, operate, and troubleshoot Kubernetes networking plugins through real-world use cases. Furthermore, you will understand the mechanisms of custom resource development and its utilization in automation and maintenance workflows. By the end of this Kubernetes book, you will graduate from an intermediate to advanced Kubernetes professional. What you will learn Master the fundamentals of Kubernetes architecture and design Build and run stateful applications and complex microservices on Kubernetes Use tools like Kubectl, secrets, and Helm to manage resources and storage Master Kubernetes Networking with load balancing options like Ingress Achieve high-availability Kubernetes clusters Improve Kubernetes observability with tools like Prometheus, Grafana, and Jaeger Extend Kubernetes working with Kubernetes API, plugins, and webhooks Who this book is for If you are a system administrator or a cloud developer with working knowledge of Kubernetes and are keen to master its advanced features, along with learning everything from building microservices to utilizing service meshes, *Mastering Kubernetes* is for you. Basic familiarity with networking concepts will be helpful.

CCNP Data Center Application Centric Infrastructure 300-620 DCACI Official Cert Guide Ammar Ahmadi, 2021-01-21 Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. * Master CCNP Data Center Application Centric Infrastructure DCACI 300-620 exam topics * Assess your knowledge with chapter-opening quizzes * Review key concepts with exam preparation tasks This is the eBook edition of the CCNP Data Center Application Centric Infrastructure DCACI 300-620 Official Cert Guide. This eBook does not include access to the companion website with practice exam that comes with the print edition. CCNP Data Center Application Centric Infrastructure DCACI 300-620 Official Cert Guide presents you with an organized test-preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCNP Data Center Application Centric Infrastructure DCACI 300-620 Official Cert Guide focuses specifically on the objectives for the CCNP Data Center DCACI exam. Leading Cisco data center technology expert Ammar Ahmadi shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. Well regarded for its level of detail, assessment features, comprehensive

design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. This official study guide helps you master all the topics on the CCNP Data Center Application Centric Infrastructure DCACI 300-620 exam. It tests your knowledge of Cisco switches in ACI mode, including • ACI fabric infrastructure • ACI packet forwarding • External network connectivity • Integrations • ACI management • ACI Anywhere CCNP Data Center Application Centric Infrastructure DCACI 300-620 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit <http://www.cisco.com/web/learning/index.html>

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