

Hands On Cloud Administration In Azure Implement

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Hands-On Machine Learning with Azure - Thomas K Abraham 2018-10-31

Implement machine learning, cognitive services, and artificial intelligence solutions by leveraging Azure cloud technologies Key Features Learn advanced concepts in Azure ML and the Cortana Intelligence Suite architecture Explore ML Server using SQL Server and HDInsight capabilities Implement various tools in Azure to build and deploy machine learning models Book Description Implementing Machine learning (ML) and Artificial Intelligence (AI) in the cloud had not been possible earlier due to the lack of processing power and storage. However, Azure has created ML and AI services that are easy to implement in the cloud. Hands-On Machine Learning with Azure teaches you how to perform advanced ML projects in the cloud in a cost-effective way. The book begins by covering the benefits of ML and AI in the cloud. You will then explore Microsoft's Team Data Science Process to establish a repeatable process for successful AI development and implementation. You will also gain an understanding of AI technologies available in Azure and the Cognitive Services APIs to integrate them into bot applications. This book lets you explore prebuilt templates with Azure Machine Learning Studio and build a model using canned algorithms that can be deployed as web services. The book then takes you through a preconfigured series of virtual machines in Azure targeted at AI development scenarios. You will get to grips with the ML Server and its capabilities in SQL and

HDInsight. In the concluding chapters, you'll integrate patterns with other non-AI services in Azure. By the end of this book, you will be fully equipped to implement smart cognitive actions in your models. What you will learn Discover the benefits of leveraging the cloud for ML and AI Use Cognitive Services APIs to build intelligent bots Build a model using canned algorithms from Microsoft and deploy it as a web service Deploy virtual machines in AI development scenarios Apply R, Python, SQL Server, and Spark in Azure Build and deploy deep learning solutions with CNTK, MMLSpark, and TensorFlow Implement model retraining in IoT, Streaming, and Blockchain solutions Explore best practices for integrating ML and AI functions with ADLA and logic apps Who this book is for If you are a data scientist or developer familiar with Azure ML and cognitive services and want to create smart models and make sense of data in the cloud, this book is for you. You'll also find this book useful if you want to bring powerful machine learning services into your cloud applications. Some experience with data manipulation and processing, using languages like SQL, Python, and R, will aid in understanding the concepts covered in this book *MCA Microsoft Certified Associate Azure Administrator Study Guide* - Rithin Skaria 2022-04-13

Learn what it takes to be an Azure Administrator and efficiently prepare for Exam AZ-104 with this authoritative resource *MCA Microsoft 365 Azure Administrator Study Guide: Exam AZ-104*

prepares readers to take the AZ-104 Exam and to fully understand the role of a Microsoft 365 Azure Administrator. The book takes a practical and straightforward approach to Microsoft Azure, ensuring that you understand both the realities of working as an Administrator and the techniques and skills necessary to succeed on the AZ-104 Exam. In addition to providing you with access to the online Sybex test bank that includes hundreds of practice questions, flashcards, and a glossary of terms, the study guide comprehensively explains all the following topics: How to manage Azure subscriptions and resources Implementing and managing storage Deploying and managing virtual machines Managing and configuring virtual networks How to Manage identities Perfect for anyone considering a career as a Microsoft Azure Administrator or preparing for the AZ-104 Exam, MCA Microsoft 365 Azure Administrator Study Guide: Exam AZ-104 also belongs on the bookshelves of practicing administrators who wish to brush up on the fundamentals of their profession.

Linux Administration Cookbook - Adam K. Dean 2018-12-31

Over 100 recipes to get up and running with the modern Linux administration ecosystem Key Features Understand and implement the core system administration tasks in Linux Discover tools and techniques to troubleshoot your Linux system Maintain a healthy system with good security and backup practices Book Description Linux is one of the most widely used operating systems among system administrators, and even modern application and server development is heavily reliant on the Linux platform. The Linux Administration Cookbook is your go-to guide to get started on your Linux journey. It will help you understand what that strange little server is doing in the corner of your office, what the mysterious virtual machine languishing in Azure is crunching through, what that circuit-board-like thing is doing under your office TV, and why the LEDs on it are blinking rapidly. This book will get you started with administering Linux, giving you the knowledge and tools you need to troubleshoot day-to-day problems, ranging from a Raspberry Pi to a server in Azure, while giving you a good understanding of the fundamentals of how GNU/Linux works. Through the course of

the book, you'll install and configure a system, while the author regales you with errors and anecdotes from his vast experience as a data center hardware engineer, systems administrator, and DevOps consultant. By the end of the book, you will have gained practical knowledge of Linux, which will serve as a bedrock for learning Linux administration and aid you in your Linux journey. What you will learn Install and manage a Linux server, both locally and in the cloud Understand how to perform administration across all Linux distros Work through evolving concepts such as IaaS versus PaaS, containers, and automation Explore security and configuration best practices Troubleshoot your system if something goes wrong Discover and mitigate hardware issues, such as faulty memory and failing drives Who this book is for If you are a system engineer or system administrator with basic experience of working with Linux, this book is for you.

DevOps für Dummies - Emily Freeman 2019-12-09

Arbeiten auch Sie nach DevOps-Prinzipien? Sollen oder wollen Sie umstellen? Was ist wichtig? Worauf kommt es an? Das Ziel von DevOps ist, dass Softwareentwicklung und IT-Auslieferung Hand in Hand arbeiten. Das ermöglicht schnellere Release-Zyklen und schont die Ressourcen. Wie das im Einzelnen geht, zeigt dieses Buch. Es stellt eine Roadmap für die Umstellung zur Verfügung, nennt notwendige Management- und Technologie-Entscheidungen und -Tools und scheut auch nicht davor zurück, notwendige Unternehmenskulturänderungen zu benennen, damit der Sprung ins DevOps-Gewässer gelingt.

Administering Windows Server Hybrid Core Infrastructure AZ-800 Exam Guide - Steve Miles 2022-12-16

Breeze through the AZ-800 certification with this up-to-date practical guide and gain valuable skills that will help you in your day-to-day administration Key Features Develop a solid base of all the essentials necessary to pass AZ-800 certification exam on your first attempt Go beyond exam prep by working on practical examples that will prepare you for the work ahead Simplify and automate your workflows with Windows Admin Center, PowerShell, Azure

Arc, and IaaS VM Book Description Written by an Azure MVP and Microsoft Certified Trainer with 20 years of experience in data center infrastructure, this AZ-800 study guide is an essential preparation tool for administrators who want to take the exam and acquire key skills that will help them thrive in their careers. This book will guide you through all the ways Windows Server can be used to manage hybrid solutions on-premises and in the cloud, starting with deploying and managing Active Directory Domain Services (AD DS) in on-premises and cloud environments. You'll then dive into managing virtual machines and containers and progress to implementing and managing an on-premises and hybrid networking infrastructure. The later parts of the book focus on managing storage and file services, concluding with a detailed overview of all the knowledge needed to pass the AZ-800 exam with practical examples throughout the chapters. In the final chapter, you'll be able to test your understanding of the topics covered with the help of practice exams to make sure that you're completely prepared for the contents and structure of the exam. By the end of the book, you'll have gained the knowledge, both practical and conceptual, that's required to administer Windows Server hybrid core infrastructure confidently. What you will learn Deploy and manage AD DS on-premises and in cloud environments Implement and manage hybrid core infrastructure solutions for compute, storage, networking, identity, and management Discover expert tips and tricks to achieve your certification in the first go Master the hybrid implementation of Windows Server running as virtual machines and containers Manage storage and file services with ease Work through hands-on exercises to prepare for the real world Who this book is for This book is for Windows Server administrators who want to pass the AZ-800 and implement hybrid infrastructure on premises and in the cloud. Azure administrators, enterprise architects, Microsoft 365 administrators, and network engineers will also get plenty of useful insights from this book. You'll need a solid understanding of the Windows Server to get started with this book, especially if you're preparing for the exam.

Migrating Linux to Microsoft Azure - Rithin Skaria 2021-07-28

Discover expert guidance for moving on-premises virtual machines running on Linux servers to Azure by implementing best practices and optimizing costs Key FeaturesWork with real-life migrations to understand the dos and don'ts of the processDeploy a new Linux virtual machine and perform automation and configuration managementGet to grips with debugging your system and collecting error logs with the help of hands-on examplesBook Description With cloud adoption at the core of digital transformation for organizations, there has been a significant demand for deploying and hosting enterprise business workloads in the cloud. Migrating Linux to Microsoft Azure offers a wealth of actionable insights into deploying Linux workload to Azure. You'll begin by learning about the history of IT, operating systems, Unix, Linux, and Windows before moving on to look at the cloud and what things were like before virtualization. This will help anyone new to Linux become familiar with the terms used throughout the book. You'll then explore popular Linux distributions, including RHEL 7, RHEL 8, SLES, Ubuntu Pro, CentOS 7, and more. As you progress, you'll cover the technical details of Linux workloads such as LAMP, Java, and SAP, and understand how to assess your current environment and prepare for your migration to Azure through cloud governance and operations planning. Finally, you'll go through the execution of a real-world migration project and learn how to analyze and debug some common problems that Linux on Azure users may encounter. By the end of this Linux book, you'll be proficient at performing an effective migration of Linux workloads to Azure for your organization. What you will learnGrasp the terminology and technology of various Linux distributionsUnderstand the technical support co-operation between Microsoft and commercial Linux vendorsAssess current workloads by using Azure MigratePlan cloud governance and operationsExecute a real-world migration projectManage project, staffing, and customer engagementWho this book is for This book is for cloud architects, cloud solution providers, and any stakeholders dealing with migration of Linux workload to Azure. Basic familiarity with Microsoft Azure would be a plus.

Hands-On Microsoft Windows Server 2019 -

Jason Eckert 2020-06-26

The perfect resource for learning from the ground up, Eckert's *HANDS-ON MICROSOFT WINDOWS SERVER 2019* is designed to build a foundation in basic server administration -- no prior server experience required. It covers all of the core Windows Server 2019 features using a logical topic flow and step-by-step exercises that can be performed within a home or college lab environment, making it an ideal choice for a Windows Server 2019 administration course. It teaches you how to deploy Windows Server 2019 in a variety of settings, including data center and cloud environments that rely on virtualization and containers. It also covers configuring and managing server storage, troubleshooting performance issues as well as working with common Windows Server technologies and network services, including Active Directory, DNS, DHCP, IPAM, file sharing, printing and remote access. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

[Hands On Google Cloud SQL and Cloud Spanner](#)

- Navin Sabharwal 2019-12-16

Discover the methodologies and best practices for getting started with Google Cloud Platform relational services - CloudSQL and CloudSpanner. The book begins with the basics of working with the Google Cloud Platform along with an introduction to the database technologies available for developers from Google Cloud. You'll then take an in-depth hands on journey into Google CloudSQL and CloudSpanner, including choosing the right platform for your application needs, planning, provisioning, designing and developing your application. Sample applications are given that use Python to connect to CloudSQL and CloudSpanner, along with helpful features provided by the engines. You'll also implement practical best practices in the last chapter. *Hands On Google Cloud SQL and Cloud Spanner* is a great starting point to apply GCP data offerings in your technology stack and the code used allows you to try out the examples and extend them in interesting ways. What You'll Learn Get started with Big Data technologies on the Google Cloud Platform Review CloudSQL and Cloud Spanner from basics to

administration Apply best practices and use Google's CloudSQL and CloudSpanner offering Work with code in Python notebooks and scripts Who This Book Is For Application architects, database architects, software developers, data engineers, cloud architects.

Microsoft Azure IaaS Essentials - Gethyn Ellis 2015-05-28

This book is intended for system administrators and other IT professionals who need to both design and implement an Azure-based cloud solution. With the help of this book, you will soon master the basic tasks needed to build a cloud-based solution.

Hands-On Azure for Developers - Kamil Mrzygłód 2018-11-30

Gain practical skills with Azure and understand how to start developing scalable and easy-to-maintain cloud applications Key Features Get up and running with the development aspects of Azure cloud Build fault-tolerant and scalable applications on Azure A practical, developer-centric guide for Azure developers Book Description Microsoft Azure is one of the fastest growing public cloud service providers in the market currently, and also holds the second highest market share after AWS. Azure has a sophisticated set of services that will help you build fault-tolerant and scalable cloud-based applications. *Hands-On Azure for Developers* will take you on a journey through multiple PaaS services available in Azure, including App Services, Functions, and Service Fabric, and explain in detail how to build a complete and reliable system with ease. You will learn about how to maximize your skills when building cloud-based solutions leveraging different SQL/NoSQL databases, serverless and messaging components, and even search engines such as Azure Search. In the concluding chapters, this book covers more advanced scenarios such as scalability best practices, serving static content with Azure CDN, and distributing loads with Azure Traffic Manager. By the end of the book, you will be able to build modern applications on the Azure cloud using the most popular and promising technologies, which will help make your solutions reliable, stable, and efficient. What you will learn Implement serverless components such as Azure functions and logic apps Integrate applications with available

storages and containers Understand messaging components, including Azure Event Hubs and Azure Queue Storage Gain an understanding of Application Insights and other proper monitoring solutions Store your data with services such as Azure SQL and Azure Data Lake Storage Develop fast and scalable cloud applications Who this book is for Hands-On Azure for Developers is for developers who want to build highly scalable cloud-based applications on Azure. Prior knowledge of Azure services will be an added advantage.

Praxishandbuch Veeam Backup & Replication 10
- Ralph Göpel 2020-10-28

Must-have für Administratoren Veeam Backup & Replication ist die Backup- und Replikationslösung für virtuelle und physische Maschinen mit Windows und Linux als Betriebssystem und VMware oder Hyper-V als Basis. Dieses Backup-Programm wurde nicht umsonst schon mehrfach ausgezeichnet. Es nimmt dem Benutzer die schwierigen Aufgaben ab und arbeitet im Hintergrund stabil und zuverlässig. Das Buch beginnt mit der Installation der Software und optionalen Komponenten sowie deren Voraussetzungen und behandelt alle wichtigen Einstellungs- und Konfigurationsmöglichkeiten der Software. Es gibt Hinweise und Tipps aus der Praxis, bietet Lösungsmöglichkeiten bei Problemen und erklärt Funktionen wie 3-2-1, GFS, synthetische Backups, Wiederherstellungsmöglichkeiten von AD, SQL, Oracle, Exchange sowie SharePoint, Einrichten von SureBackup-Jobs und vieles mehr. Ralph Göpel ermöglicht allen Admin-Profis den raschen Einstieg in Veeam und vermittelt alles, was Sie zu einem erfolgreichen Einsatz benötigen.

Microsoft Azure Administrator Exam Prep (AZ-104): Make Your Career with Microsoft Azure Platform Using Azure Administered Exam Prep (English Edition) - Lalit Rawat 2021-03-02

Running SAP on Microsoft Azure - Bert Vanstechelman 2019-12-06

In this book, you'll be introduced to operating SAP in the Cloud and learn the specifics of deploying and maintaining SAP on Azure. Explore cloud concepts and clarify the differences between on-premise, IaaS, PaaS, and SaaS. Discover Microsoft Azure Cloud key

concepts and evaluate Azure for businesses on SAP ERP and for those moving to SAP S/4HANA. Learn how to translate an existing SAP landscape to Azure and walk through the size of virtual machines, selection and configuration of storage, and network configuration. Learn about high availability and disaster recovery concepts in Microsoft Azure and explore your options. Dive into installation and configuration specifics for Windows, Linux, and all databases supported by SAP ERP, with a special focus on SAP S/4HANA. Examine the three main areas of activity for a platform migration preparation, migration, and go-live and post-migration support. Obtain guidelines for planning and executing your migration to the Cloud. Walk through a detailed customer example including a close look at how the infrastructure was mapped to the Cloud. - Evaluate Azure for businesses on SAP ERP and those moving to S/4HANA - Design your SAP landscape for SAP on Azure - Implementation guidelines for every database and operating system supported by SAP and Azure - Plan and execute migration to the Cloud Hands-On Cloud Administration in Azure - Mustafa Toroman 2018-10-23

Explore Azure services such as networking, virtual machines, web apps, databases, cloud migration, and security Key Features Understand Azure services to build, deploy, and manage workloads on cloud Learn in-depth core Azure services and work through real-world scenarios and case studies A concise and practical guide for learning cloud administration on Azure Book Description Azure continues to dominate the public cloud market and grow rapidly thanks to a number of recent innovations. Azure's wide range of services and support has led to a large number of customers switching to Azure cloud. Hands-On Cloud Administration in Azure starts with the basics of Azure cloud fundamentals and key concepts of the cloud computing ecosystem and services. Then, you will gradually get acquainted with core services provided by Azure, including Azure VNet, types and assignments of IP addresses, and network security groups. You will also work on creating and administering Azure Virtual Machines, types of virtual machines (VMs), and design VM solutions based on computing workloads. As you make your way through the chapters, you will

explore Azure App Service, discover how to host your web apps in Azure, and monitor and troubleshoot them. In the concluding chapters, you will learn more complex and abstract services, such as Azure Storage, Azure Backup, and Azure Site Recovery. You will also get to grips with Azure SQL Databases and the SQL on Azure VM concept. By the end of this book, you will have obtained practical experience of working with Azure services and Azure administration, along with maintaining, monitoring, and securing your Azure resources. What you will learn

Understand the concepts of IaaS and PaaS Learn design patterns for Azure solutions Design data solutions in Azure Explore concepts of hybrid clouds with Azure Implement Azure Security in cloud Create and manage Azure resources with script-based tools Who this book is for Hands-On Cloud Administration in Azure is for system administrators, cloud admins, cloud engineers, and DevOps engineers who are interested in understanding administration-related services in Azure. Prior experience of working with Azure is an added advantage.

Hands-On Cloud Administration in Azure -

Mustafa Toroman 2018-10-23

Explore Azure services such as networking, virtual machines, web apps, databases, cloud migration, and security Key Features Understand Azure services to build, deploy, and manage workloads on cloud Learn in-depth core Azure services and work through real-world scenarios and case studies A concise and practical guide for learning cloud administration on Azure Book Description Azure continues to dominate the public cloud market and grow rapidly thanks to a number of recent innovations. Azure's wide range of services and support has led to a large number of customers switching to Azure cloud. Hands-On Cloud Administration in Azure starts with the basics of Azure cloud fundamentals and key concepts of the cloud computing ecosystem and services. Then, you will gradually get acquainted with core services provided by Azure, including Azure VNet, types and assignments of IP addresses, and network security groups. You will also work on creating and administering Azure Virtual Machines, types of virtual machines (VMs), and design VM solutions based on computing

workloads. As you make your way through the chapters, you will explore Azure App Service, discover how to host your web apps in Azure, and monitor and troubleshoot them. In the concluding chapters, you will learn more complex and abstract services, such as Azure Storage, Azure Backup, and Azure Site Recovery. You will also get to grips with Azure SQL Databases and the SQL on Azure VM concept. By the end of this book, you will have obtained practical experience of working with Azure services and Azure administration, along with maintaining, monitoring, and securing your Azure resources. What you will learn

Understand the concepts of IaaS and PaaS Learn design patterns for Azure solutions Design data solutions in Azure Explore concepts of hybrid clouds with Azure Implement Azure Security in cloud Create and manage Azure resources with script-based tools Who this book is for Hands-On Cloud Administration in Azure is for system administrators, cloud admins, cloud engineers, and DevOps engineers who are interested in understanding administration-related services in Azure. Prior experience of working with Azure is an added advantage.

Hands-On System Programming with Linux -

Kaiwan N Billimoria 2018-10-31

Get up and running with system programming concepts in Linux Key Features Acquire insight on Linux system architecture and its programming interfaces Get to grips with core concepts such as process management, signalling and pthreads Packed with industry best practices and dozens of code examples Book Description The Linux OS and its embedded and server applications are critical components of today's software infrastructure in a decentralized, networked universe. The industry's demand for proficient Linux developers is only rising with time. Hands-On System Programming with Linux gives you a solid theoretical base and practical industry-relevant descriptions, and covers the Linux system programming domain. It delves into the art and science of Linux application programming— system architecture, process memory and management, signaling, timers, pthreads, and file IO. This book goes beyond the use API X to do Y approach; it explains the concepts and theories required to understand

programming interfaces and design decisions, the tradeoffs made by experienced developers when using them, and the rationale behind them. Troubleshooting tips and techniques are included in the concluding chapter. By the end of this book, you will have gained essential conceptual design knowledge and hands-on experience working with Linux system programming interfaces. What you will learn

Explore the theoretical underpinnings of Linux system architecture
Understand why modern OSes use virtual memory and dynamic memory APIs
Get to grips with dynamic memory issues and effectively debug them
Learn key concepts and powerful system APIs related to process management
Effectively perform file IO and use signaling and timers
Deeply understand multithreading concepts, pthreads APIs, synchronization and scheduling

Who this book is for
Hands-On System Programming with Linux is for Linux system engineers, programmers, or anyone who wants to go beyond using an API set to understanding the theoretical underpinnings and concepts behind powerful Linux system programming APIs. To get the most out of this book, you should be familiar with Linux at the user-level logging in, using shell via the command line interface, the ability to use tools such as find, grep, and sort. Working knowledge of the C programming language is required. No prior experience with Linux systems programming is assumed.

[Learn Azure Administration](#) - Kamil Mrzyglod
2020-09-21

Enhance your Azure administration and Azure DevOps skills and get up and running with networking, security, automation, and effective cost management

Key Features

- Explore a variety of administration patterns used for different cloud architectures
- Discover best practices for administering various IT systems hosted in Azure
- Administer, automate, and manage your Azure cloud environment effectively

Book Description

Microsoft Azure is one of the upcoming cloud platforms that provide cost-effective solutions and services to help businesses overcome complex infrastructure-related challenges. This book will help you scale your cloud administration skills with Microsoft Azure. Learn Azure Administration starts with an introduction to the management of Azure

subscriptions, and then takes you through Azure resource management. Next, you'll configure and manage virtual networks and find out how to integrate them with a set of Azure services. You'll then handle the identity and security for users with the help of Azure Active Directory, and manage access from a single place using policies and defined roles. As you advance, you'll get to grips with receipts to manage a virtual machine. The next set of chapters will teach you how to solve advanced problems such as DDoS protection, load balancing, and networking for containers. You'll also learn how to set up file servers, along with managing and storing backups. Later, you'll review monitoring solutions and backup plans for a host of services. The last set of chapters will help you to integrate different services with Azure Event Grid, Azure Automation, and Azure Logic Apps, and teach you how to manage Azure DevOps. By the end of this Azure book, you'll be proficient enough to easily administer your Azure-based cloud environment. What you will learn

- Explore different Azure services and understand the correlation between them
- Secure and integrate different Azure components
- Work with a variety of identity and access management (IAM) models
- Find out how to set up monitoring and logging solutions
- Build a complete skill set of Azure administration activities with Azure DevOps
- Discover efficient scaling patterns for small and large workloads

Who this book is for
This book is for cloud administrators, system administrators, and IT professionals who want to scale up their skillset and enter the world of cloud computing. IT professionals and engineers who are already familiar with the basics of the Azure services and are looking for a step-by-step guide to solving the most common Azure problems will also find this book useful. Basic understanding of cloud concepts such as IaaS, PaaS, virtualization, networking, and common Azure services is required.

Hands-On Linux Administration on Azure - Frederik Vos 2018-08-31

Learn to efficiently run Linux-based workloads in Azure

Key Features

- Manage and deploy virtual machines in your Azure environment
- Explore various open source tools to integrate automation and orchestration
- Leverage Linux features to create, run, and manage containers

Book Description Azure's market share has increased massively and enterprises are adopting it rapidly. Linux is a widely-used operating system and has proven to be one of the most popular workloads on Azure. It has become crucial for Linux administrators and Microsoft professionals to be well versed with the concepts of managing Linux workloads in an Azure environment. Hands-On Linux Administration on Azure starts by introducing you to the fundamentals of Linux and Azure, after which you will explore advanced Linux features and see how they are managed in an Azure environment. Next, with the help of real-world scenarios, you will learn how to deploy virtual machines (VMs) in Azure, along with extending Azure VMs capabilities and managing them efficiently. You will then understand continuous configuration automation and use Ansible, SaltStack and Powershell DSC for orchestration. As you make your way through the chapters, you will understand containers and how they work, along with managing containers and the various tasks you can perform with them. In the concluding chapters, you will cover some Linux troubleshooting techniques on Azure, and you will also be able to monitor Linux in Azure using different open source tools. By the end of this book, you will be able to administer Linux on Azure and make the most of the important tools required for deployment. What you will learn Understand why Azure is the ideal solution for your open source workloads Master essential Linux skills and learn to find your way around the Linux environment Deploy Linux in an Azure environment Use configuration management to manage Linux in Azure Manage containers in an Azure environment Enhance Linux security and use Azure's identity management systems Automate deployment with Azure Resource Manager (ARM) and Powershell Employ Ansible to manage Linux instances in an Azure cloud environment Who this book is for Hands-On Linux Administration on Azure is for Linux administrators and Microsoft professionals that need to deploy and manage their workloads in Azure. Prior knowledge of Linux and Azure isn't necessary.

Hands-On Microsoft Windows Server 2016 - Michael Palmer 2017-03-31

HANDS-ON MICROSOFT WINDOWS SERVER 2016 is the perfect resource for learning Windows Server 2016 from the ground up. Designed to build a foundation in basic server administration, this book requires no previous server experience. It covers all of the critical Windows Server 2016 features, including the advantages unique to this new server operating system. Readers learn how to choose the right server edition for their needs. They also learn to install, configure, customize, manage, and troubleshoot today's servers most effectively. If the reader is new to server administration, this book provides the background and knowledge needed to manage servers on small to large networks. If the reader is an experienced server administrator, this book provides a fast way to get up to speed on new Windows Server 2016 administration. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Implementing Azure Cloud Design Patterns - Oliver Michalski 2018-01-29

A hands-on guide to mastering Azure cloud design patterns and best practices. Key Features Master architectural design patterns in Azure. Get hands-on with implementing design patterns. Implement best practices for improving efficiency and security Book Description A well designed cloud infrastructure covers factors such as consistency, maintenance, simplified administration and development, and reusability. Hence it is important to choose the right architectural pattern as it has a huge impact on the quality of cloud-hosted services. This book covers all Azure design patterns and functionalities to help you build your cloud infrastructure so it fits your system requirements. This book initially covers design patterns that are focused on factors such as availability and data management/monitoring. Then the focus shifts to complex design patterns such as multitasking, improving scalability, valet keys, and so on, with practical use cases. The book also supplies best practices to improve the security and performance of your cloud. By the end of this book, you will thoroughly be familiar with the different design and architectural patterns available with Windows Azure and capable of choosing the best pattern for your

system. What you will learn Learn to organize Azure access Design the core areas of the Azure Execution Model Work with storage and data management Create a health endpoint monitoring pattern Automate early detection of anomalies Identify and secure Azure features Who this book is for This book is targeted at cloud architects and cloud solution providers who are looking for an extensive guide to implementing different patterns for the deployment and maintenance of services in Microsoft Azure. Prior experience with Azure is required as the book is completely focused on design patterns.

Hands-On Linux Administration on Azure - Second Edition - Kamesh Ganesan 2020-01-31

SQL Server on Azure Virtual Machines - Joey D'Antoni 2020-06-04

Learn how to combine SQL Server's analytics with Azure's flexibility and hybrid connectivity to achieve industry-leading performance and manageability for your cloud database. Key Features Understand platform availability for SQL Server in Azure Explore the benefits and deployment choices offered by SQL IaaS Get to grips with deploying SQL Server on the Linux development ecosystem Book Description Deploying SQL Server on Azure virtual machines allows you to work on full versions of SQL Server in the cloud without having to maintain on-premises hardware. The book begins by introducing you to the SQL portfolio in Azure and takes you through SQL Server IaaS scenarios, before explaining the factors that you need to consider while choosing an OS for SQL Server in Azure VMs. As you progress through the book, you'll explore different VM options and deployment choices for IaaS and understand platform availability, migration tools, and best practices in Azure. In later chapters, you'll learn how to configure storage to achieve optimized performance. Finally, you'll get to grips with the concept of Azure Hybrid Benefit and find out how you can use it to maximize the value of your existing on-premises SQL Server. By the end of this book, you'll be proficient in administering SQL Server on Microsoft Azure and leveraging the tools required for its deployment. What you will learn Choose an operating system for SQL Server in Azure VMs Use the Azure Management

Portal to facilitate the deployment process Verify connectivity and network latency in cloud Configure storage for optimal performance and connectivity Explore various disaster recovery options for SQL Server in Azure Optimize SQL Server on Linux Discover how to back up databases to a URL Who this book is for SQL Server on Azure VMs is for you if you are a developer, data enthusiast, or anyone who wants to migrate SQL Server databases to Azure virtual machines. Basic familiarity with SQL Server and managed identities for Azure resources will be a plus.

Azure for Architects - Ritesh Modi 2019-01-31 Create advanced data and integrated solutions using Azure Event Grid, functions, and containers Key Features Get familiar with the different design patterns available in Microsoft Azure Develop Azure cloud architecture and a pipeline management system Get to know the security best practices for your Azure deployment Book Description Over the years, Azure cloud services have grown quickly, and the number of organizations adopting Azure for their cloud services is also gradually increasing. Leading industry giants are finding that Azure fulfills their extensive cloud requirements. Azure for Architects - Second Edition starts with an extensive introduction to major designing and architectural aspects available with Azure. These design patterns focus on different aspects of the cloud, such as high availability, security, and scalability. Gradually, we move on to other aspects, such as ARM template modular design and deployments. This is the age of microservices and serverless is the preferred implementation mechanism for them. This book covers the entire serverless stack available in Azure including Azure Event Grid, Azure Functions, and Azure Logic Apps. New and advance features like durable functions are discussed at length. A complete integration solution using these serverless technologies is also part of the book. A complete chapter discusses all possible options related to containers in Azure including Azure Kubernetes services, Azure Container Instances and Registry, and Web App for Containers. Data management and integration is an integral part of this book that discusses options for implementing OLTP solutions using Azure SQL,

Big Data solutions using Azure Data factory and Data Lake Storage, eventing solutions using stream analytics, and Event Hubs. This book will provide insights into Azure governance features such as tagging, RBAC, cost management, and policies. By the end of this book, you will be able to develop a full-fledged Azure cloud solution that is Enterprise class and future-ready. What you will learn

Create an end-to-end integration solution using Azure Serverless Stack

Learn Big Data solutions and OLTP-based applications on Azure

Understand DevOps implementations using Azure DevOps

Architect solutions comprised of multiple resources in Azure

Develop modular ARM templates

Develop Governance on Azure using locks, RBAC, policies, tags and cost

Learn ways to build data solutions on Azure

Understand the various options related to containers including Azure Kubernetes Services

Who this book is for If you are Cloud Architects, DevOps Engineers, or developers who want to learn key architectural aspects of the Azure Cloud platform, then this book is for you. Prior basic knowledge of the Azure Cloud platform is good to have.

Microsoft Azure Administrator - Exam Guide

AZ-103 - Sjoukje Zaal 2019-05-31

Manage Microsoft Azure cloud services that span storage, security, networking, and compute cloud capabilities and ace the AZ-103 Exam

Key Features

Master features and concepts pertaining to Azure's Administration services

Gain a deep understanding of various Azure services related to infrastructure, applications, and environments

Gauge yourself by giving mock tests with up-to-date exam questions

Book Description

Microsoft Azure Administrator - Exam Guide AZ-103 will cover all the exam objectives that will help you earn Microsoft Azure Administrator certification. Whether you want to clear AZ-103 exam or want hands-on experience in administering Azure, this study guide will help you achieve your objective. It covers the latest features and capabilities around configuring, managing, and securing Azure resources. Following Microsoft's AZ-103 exam syllabus, this guide is divided into five modules. The first module talks about how to manage Azure subscriptions and resources. You will be able to configure Azure subscription policies at Azure subscription level and learn

how to use Azure policies for resource groups. Later, the book covers techniques related to implementing and managing storage in Azure. You will be able to create and configure backup policies and perform restore operations. The next module will guide you to create, configure, and deploy virtual machines for Windows and Linux. In the last two modules, you will learn about configuring and managing virtual networks and managing identities. The book concludes with effective mock tests along with answers so that you can confidently crack this exam. By the end of this book, you will acquire the skills needed to pass Exam AZ-103. What you will learn

Configure Azure subscription policies and manage resource groups

Monitor activity log by using Log Analytics

Modify and deploy Azure Resource Manager (ARM) templates

Protect your data with Azure Site Recovery

Learn how to manage identities in Azure

Monitor and troubleshoot virtual network connectivity

Manage Azure Active Directory Connect, password sync, and password writeback

Who this book is for This book is for Azure administrators, systems administrators or anyone preparing for AZ 103 exam and wants to master Azure's various administration features. Readers should have proficiency in working with PowerShell, CLI and other day-to-day Azure administration tasks.

Hands-On Enterprise Automation on Linux -

James Freeman 2020-01-24

Achieve enterprise automation in your Linux environment with this comprehensive guide

Key Features

Automate your Linux infrastructure with the help of practical use cases and real-world scenarios

Learn to plan, build, manage, and customize OS releases in your environment

Enhance the scalability and efficiency of your infrastructure with advanced Linux system administration concepts

Book Description

Automation is paramount if you want to run Linux in your enterprise effectively. It helps you minimize costs by reducing manual operations, ensuring compliance across data centers, and accelerating deployments for your cloud infrastructures. Complete with detailed explanations, practical examples, and self-assessment questions, this book will teach you how to manage your Linux estate and leverage Ansible to achieve effective levels of automation.

You'll learn important concepts on standard operating environments that lend themselves to automation, and then build on this knowledge by applying Ansible to achieve standardization throughout your Linux environments. By the end of this Linux automation book, you'll be able to build, deploy, and manage an entire estate of Linux servers with higher reliability and lower overheads than ever before. What you will learn

- Perform large-scale automation of Linux environments in an enterprise
- Overcome the common challenges and pitfalls of extensive automation
- Define the business processes needed to support a large-scale Linux environment
- Get well-versed with the most effective and reliable patch management strategies
- Automate a range of tasks from simple user account changes to complex security policy enforcement
- Learn best practices and procedures to make your Linux environment automatable

Who this book is for
This book is for anyone who has a Linux environment to design, implement, and maintain. Open source professionals including infrastructure architects and system administrators will find this book useful. You're expected to have experience in implementing and maintaining Linux servers along with knowledge of building, patching, and maintaining server infrastructure. Although not necessary, knowledge of Ansible or other automation technologies will be beneficial.

Hands-On Linux Administration on Azure - Kamesh Ganesan 2020-02-20

Develop a solid understanding of cloud computing, Linux virtual machine, container virtualization, and other fundamental concepts to create and manage your Linux workload in Azure Key Features

- Deploy and manage virtual machines in the Azure environment
- Explore open source tools to integrate automation and orchestration
- Implement Linux features to create and manage containers

Book Description
Thanks to its flexibility in delivering scalable cloud solutions, Microsoft Azure is a suitable platform for managing all your workloads. You can use it to implement Linux virtual machines and containers, and to create applications in open source languages with open APIs. This Linux administration book first takes you through the fundamentals of Linux and Azure to prepare you for the more advanced Linux features in later

chapters. With the help of real-world examples, you'll learn how to deploy virtual machines (VMs) in Azure, expand their capabilities, and manage them efficiently. You will manage containers and use them to run applications reliably, and in the concluding chapter, you'll explore troubleshooting techniques using a variety of open source tools. By the end of this book, you'll be proficient in administering Linux on Azure and leveraging the tools required for deployment. What you will learn

- Grasp the fundamentals of virtualization and cloud computing
- Understand file hierarchy and mount new filesystems
- Maintain the life cycle of your application in Azure
- Kubernetes Service
- Manage resources with the Azure CLI and PowerShell
- Manage users, groups, and filesystem permissions
- Use Azure Resource Manager to redeploy virtual machines
- Implement configuration management to configure a VM correctly
- Build a container using Docker

Who this book is for
If you are a Linux administrator or a Microsoft professional looking to deploy and manage your workload in Azure, this book is for you. Although not necessary, knowledge of Linux and Azure will assist with understanding core concepts.

[Hands-On Linux Administration on Azure](#) - Frederik Vos 2018-08-31

Learn to efficiently run Linux-based workloads in Azure Key Features

- Manage and deploy virtual machines in your Azure environment
- Explore various open source tools to integrate automation and orchestration
- Leverage Linux features to create, run, and manage containers

Book Description
Azure's market share has increased massively and enterprises are adopting it rapidly. Linux is a widely-used operating system and has proven to be one of the most popular workloads on Azure. It has become crucial for Linux administrators and Microsoft professionals to be well versed with the concepts of managing Linux workloads in an Azure environment. *Hands-On Linux Administration on Azure* starts by introducing you to the fundamentals of Linux and Azure, after which you will explore advanced Linux features and see how they are managed in an Azure environment. Next, with the help of real-world scenarios, you will learn how to deploy virtual machines (VMs) in Azure, along with

extending Azure VMs capabilities and managing them efficiently. You will then understand continuous configuration automation and use Ansible, SaltStack and Powershell DSC for orchestration. As you make your way through the chapters, you will understand containers and how they work, along with managing containers and the various tasks you can perform with them. In the concluding chapters, you will cover some Linux troubleshooting techniques on Azure, and you will also be able to monitor Linux in Azure using different open source tools. By the end of this book, you will be able to administer Linux on Azure and make the most of the important tools required for deployment. What you will learn Understand why Azure is the ideal solution for your open source workloads Master essential Linux skills and learn to find your way around the Linux environment Deploy Linux in an Azure environment Use configuration management to manage Linux in Azure Manage containers in an Azure environment Enhance Linux security and use Azure's identity management systems Automate deployment with Azure Resource Manager (ARM) and Powershell Employ Ansible to manage Linux instances in an Azure cloud environment Who this book is for Hands-On Linux Administration on Azure is for Linux administrators and Microsoft professionals that need to deploy and manage their workloads in Azure. Prior knowledge of Linux and Azure isn't necessary.

Mastering Linux Administration - Alexandru Calcatinge 2021-06-18

Develop advanced skills for working with Linux systems on-premises and in the cloud Key Features Become proficient in everyday Linux administration tasks by mastering the Linux command line and using automation Work with the Linux filesystem, packages, users, processes, and daemons Deploy Linux to the cloud with AWS, Azure, and Kubernetes Book Description Linux plays a significant role in modern data center management and provides great versatility in deploying and managing your workloads on-premises and in the cloud. This book covers the important topics you need to know about for your everyday Linux administration tasks. The book starts by helping you understand the Linux command line and

how to work with files, packages, and filesystems. You'll then begin administering network services and hardening security, and learn about cloud computing, containers, and orchestration. Once you've learned how to work with the command line, you'll explore the essential Linux commands for managing users, processes, and daemons and discover how to secure your Linux environment using application security frameworks and firewall managers. As you advance through the chapters, you'll work with containers, hypervisors, virtual machines, Ansible, and Kubernetes. You'll also learn how to deploy Linux to the cloud using AWS and Azure. By the end of this Linux book, you'll be well-versed with Linux and have mastered everyday administrative tasks using workflows spanning from on-premises to the cloud. If you also find yourself adopting DevOps practices in the process, we'll consider our mission accomplished. What you will learn Understand how Linux works and learn basic to advanced Linux administration skills Explore the most widely used commands for managing the Linux filesystem, network, security, and more Get to grips with different networking and messaging protocols Find out how Linux security works and how to configure SELinux, AppArmor, and Linux iptables Work with virtual machines and containers and understand container orchestration with Kubernetes Work with containerized workflows using Docker and Kubernetes Automate your configuration management workloads with Ansible Who this book is for If you are a Linux administrator who wants to understand the fundamentals and as well as modern concepts of Linux system administration, this book is for you. Windows System Administrators looking to extend their knowledge to the Linux OS will also benefit from this book.

Hands-On Cloud Solutions with Azure - Greg Leonardo 2018-10-31

Design effective Azure architecture and transform your IT business solutions Key Features Develop a resilient and robust cloud environment Deploy and manage cost-effective and highly available solutions on your public cloud Design and implement enterprise-level cloud solutions Book Description Azure provides cloud-based solutions to support your business

demands. Building and running solutions on Azure will help your business maximize the return on investment and minimize the total cost of ownership. Hands-On Cloud Solutions with Azure focuses on addressing the architectural decisions that usually arise when you design or migrate a solution to Microsoft Azure. You will start by designing the building blocks of infrastructure solution on Azure, such as Azure compute, storage, and networking, followed by exploring the database options it offers. You will get to grips with designing scalable web and mobile solutions and understand where to host your Active Directory and Identity Solution. Moving on, you'll learn how to extend DevOps to Azure. You will also benefit from some exciting services that enable extremely smooth operations and streamlined DevOps between on-premises and cloud. The book will help you to design a secure environment for your solution, on both the Cloud and hybrid. Toward the end, you'll see how to manage and monitor cloud and hybrid solutions. By the end of this book, you will be armed with all the tools and knowledge you need to properly plan and design your solutions on Azure, whether it's for a brand new project or migration project. What you will learn

Get started with Azure by understanding tenants, subs, and resource groups
Decide whether to "lift and shift" or migrate apps
Plan and architect solutions in Azure
Build ARM templates for Azure resources
Develop and deploy solutions in Azure
Understand how to monitor and support your application with Azure
Make your life easier with Azure best practices and tips
Who this book is for
If you're an IT consultant, developer, or solutions architect looking to design effective solutions for your organization, this book is for you. Some knowledge of cloud computing will assist with understanding the key concepts covered in this book.

[Azure Networking Cookbook](#) - Mustafa Toroman
2020-12-17

Find out how you can leverage virtual machines and load balancers to facilitate secure and efficient networking
Key Features
Discover the latest networking features and additions in Microsoft Azure with this updated guide
Upgrade your cloud networking skills by learning how to plan, implement, configure, and secure your

infrastructure network
Provide a fault-tolerant environment for your apps using Azure networking services
Book Description
Azure's networking services enable organizations to manage their networks effectively. With the Azure Networking Cookbook, you'll see how Azure paves the way for an enterprise to achieve reliable performance and secure connectivity. This updated second edition will take you through the latest networking features in Azure. The book starts with an introduction to Azure networking, covering basics such as creating Azure virtual networks, designing address spaces, and creating subnets. You'll create and manage network security groups, application security groups, and IP addresses in Azure using easy-to-follow recipes. As you progress through the book, you'll explore various aspects such as DNS and routing, load balancers, Traffic Manager, and site-to-site, point-to-site, and VNet-to-VNet connections. This cookbook covers all the functions crucial to understanding cloud networking practices and being able to plan, implement, and secure your network infrastructure with Azure. You'll not only upscale your current environment but also get well-versed with monitoring, diagnosing, and ensuring secure connectivity. The book will help you grasp best practices as you learn how to create a robust environment. By the end of this Azure cookbook, you'll have gained hands-on experience developing cost-effective solutions that can facilitate efficient connectivity in your organization. What you will learn

Get to grips with building Azure networking services
Understand how to create and work on hybrid connections
Configure and manage Azure networking services
Explore ways to design high availability network solutions in Azure
Discover how to monitor and troubleshoot Azure network resources
Work with different methods to connect local networks to Azure virtual networks
Who this book is for
This cookbook is for cloud architects, cloud solution providers, and anyone who deals with networking on Azure. A basic understanding of Azure will help you to make the most of this book.

Administering Relational Databases on Microsoft Azure - Ahmad Yaseen
2021-03-07

This book is ideal for IT professionals who have some experience with SQL Server or Database

but are looking for a rich hands-on resource with guidance to explore each of the Azure SQL administrator concepts and the solutions the cloud provider offers. "Azure SQL Database named among the top 3 databases of 2020 according to DB-Engines.." Azure SQL Database is primarily for SQL DBAs who are dipping their feet into the cloud world since Cloud services are becoming the de-facto platform for agile development and implementation. Numerous companies worldwide are now drifting to cloud solutions, and Microsoft Azure is one of the prominent ones. The book is primarily designed for Cloud DBAs (with ample knowledge of SQL server) who are new to Azure and want to have a solid start and get an in-depth glimpse on advanced topics that will help them to solve day to day issues plus effectively support the Azure databases. Administering Relational Databases on Microsoft Azure takes readers through a complete tour of understanding of fundamental Azure concepts, Azure SQL administration, Azure Management tools and techniques. This book will give an edge over to clear DP 300 exam. Increasingly, we continue to flood with information about the importance of the cloud. Cloud computing is everywhere, but not everyone knows exactly what it is and where to get started. We try to focus more on Azure SQL and give you the foundational understanding of what the cloud really is and tell you how some of these cloud technologies can work for you, and direct you to improve your knowledge and get certified with hassle-free learning. If you find it is for you, you will pick up useful tricks and tips for making a move to the cloud as seamless as possible. It is never too late to turn the corner from "On-premise DBA" to "Cloud DBA specialist". In most technical discussions, we see a vast gap in cloud adoption and the reality of absorption. There is always a need to learn the Next-Gen technology. In this book, you explore the importance of understanding and managing cloud database and the skills you must build around the Cloud to face the cloud DBA certification. In addition, along the way, you will pick up great interesting insights, real-time scenario and fundamentals, concepts of Cloud, cloud management tools, test cases, and several practice solutions. This book provides the platform for learning the advanced Azure SQL

database management concepts, delivering a solid understanding of cloud infrastructure and available tools, and explaining how to implement cloud database solutions. Upon completion of the book, readers will be able to:

1. Understand Azure fundamentals and concepts
2. Design cloud infrastructure solutions with a focus on databases in mind
3. Design your environment with the right services models-DTU, VCore, Serverless Computing, SQL on Azure VM, etc...
4. Learn to administrate and manage Azure SQL with the best practices in mind
5. Implement Azure PowerShell and Azure CLI solutions to manage large infrastructures through Azure Automation, ARM templates, and more...
6. Efficient and seamless handling of Azure components
7. Design High availability and disaster recovery methodologies
8. Handle advanced diagnostics to perform troubleshooting performance issues
9. Learn analytics integration using Log Analytics and SQL Analytics
10. Perform database-related integration using Azure Logic Apps
11. Deep dive into administering relational database on Azure Cloud
12. Explore the key concepts that you should consider when making a move to Azure SQL
13. Learn advanced data security

Microsoft Azure Administrator - Exam Guide AZ-103 - Sjoukje Zaal 2019-05-31

Manage Microsoft Azure cloud services that span storage, security, networking, and compute cloud capabilities and ace the AZ-103 Exam Key Features Master features and concepts pertaining to Azure's Administration services Gain a deep understanding of various Azure services related to infrastructure, applications, and environments Gauge yourself by giving mock tests with up-to-date exam questions

Book Description Microsoft Azure Administrator - Exam Guide AZ-103 will cover all the exam objectives that will help you earn Microsoft Azure Administrator certification. Whether you want to clear AZ-103 exam or want hands-on experience in administering Azure, this study guide will help you achieve your objective. It covers the latest features and capabilities around configuring, managing, and securing Azure resources. Following Microsoft's AZ-103 exam syllabus, this guide is divided into five modules. The first module talks about how to manage Azure subscriptions and resources. You

will be able to configure Azure subscription policies at Azure subscription level and learn how to use Azure policies for resource groups. Later, the book covers techniques related to implementing and managing storage in Azure. You will be able to create and configure backup policies and perform restore operations. The next module will guide you to create, configure, and deploy virtual machines for Windows and Linux. In the last two modules, you will learn about configuring and managing virtual networks and managing identities. The book concludes with effective mock tests along with answers so that you can confidently crack this exam. By the end of this book, you will acquire the skills needed to pass Exam AZ-103. What you will learn

- Configure Azure subscription policies and manage resource groups
- Monitor activity log by using Log Analytics
- Modify and deploy Azure Resource Manager (ARM) templates
- Protect your data with Azure Site Recovery
- Learn how to manage identities in Azure
- Monitor and troubleshoot virtual network connectivity
- Manage Azure Active Directory Connect, password sync, and password writeback

Who this book is for This book is for Azure administrators, systems administrators or anyone preparing for AZ 103 exam and wants to master Azure's various administration features. Readers should have proficiency in working with PowerShell, CLI and other day-to-day Azure administration tasks.

[Installation, Storage, and Compute with Windows Server 2016: Microsoft 70-740 MCSA Exam Guide](#) - Sasha Kranjac 2019-02-28

A comprehensive guide for MCSA Exam 70-740, that will help you prepare from day one to earn the valuable Microsoft Certificate Key Features

- Leverage practice questions and mock tests to pass this certification with confidence
- Learn to Install Windows Servers, implement high availability, and monitor server environments
- Gain necessary skills to implement and configure storage and compute features

Book Description MCSA: Windows Server 2016 certification is one of the most sought-after certifications for IT professionals, which includes working with Windows Server and performing administrative tasks around it. This book is aimed at the 70-740 certification and is part of Packt's three-book series on MCSA

Windows Server 2016 certification, which covers Exam 70-740, Exam 70-741, and Exam 70-742. This book will cover exam objectives for the 70-740 exam, and starting from installing and configuring Windows Server 2016, Windows Server imaging and deployment to configuring and managing disks and volumes, implementing and configuring server storage and implementing Hyper-V. At the end of each chapter you will be provided test questions to revise your learnings which will boost your confidence in preparing for the actual certifications. By the end of this book, you will learn everything needed to pass the, MCSA Exam 70-740: Installation, Storage, and Compute with Windows Server 2016, certification. What you will learn

- Install Windows Server 2016
- Upgrade and Migrate servers and workloads
- Implement and configure server storage
- Install and configure Hyper-V
- Configure the virtual machine (VM) settings
- Configure Hyper-V storage
- Configure Hyper-V networking

Who this book is for This book is ideal for system administrators interested in installing and configuring storage and compute features with Windows Sever 2016 and aiming to pass the 70-740 certification. Some experience with Windows Server in an enterprise environment is assumed.

Hands-On Linux for Architects - Denis Salamanca 2019-04-30

Explore practical use cases to learn everything from Linux components, and functionalities, through to hardware and software support

- Key Features
- Gain a clear understanding of how to design a Linux environment
- Learn more about the architecture of the modern Linux operating system(OS)
- Understand infrastructure needs and design a high-performing computing environment

Book Description It is very important to understand the flexibility of an infrastructure when designing an efficient environment. In this book, you will cover everything from Linux components and functionalities through to hardware and software support, which will help you to implement and tune effective Linux-based solutions. This book gets started with an overview of Linux design methodology. Next, you will focus on the core concepts of designing a solution. As you progress, you will gain

insights into the kinds of decisions you need to make when deploying a high-performance solution using Gluster File System (GlusterFS). In the next set of chapters, the book will guide you through the technique of using Kubernetes as an orchestrator for deploying and managing containerized applications. In addition to this, you will learn how to apply and configure Kubernetes for your NGINX application. You'll then learn how to implement an ELK stack, which is composed of Elasticsearch, Logstash, and Kibana. In the concluding chapters, you will focus on installing and configuring a Saltstack solution to manage different Linux distributions, and explore a variety of design best practices. By the end of this book, you will be well-versed with designing a high-performing computing environment for complex applications to run on. By the end of the book, you will have delved inside the most detailed technical conditions of designing a solution, and you will have also dissected every aspect in detail in order to implement and tune open source Linux-based solutions

What you will learn

- Study the basics of infrastructure design and the steps involved
- Expand your current design portfolio with Linux-based solutions
- Discover open source software-based solutions to optimize your architecture
- Understand the role of high availability and fault tolerance in a resilient design
- Identify the role of containers and how they improve your continuous integration and continuous deployment pipelines
- Gain insights into optimizing and making resilient and highly available designs by applying industry best practices

Who this book is for

This intermediate-level book is for Linux system administrators, Linux support engineers, DevOps engineers, Linux consultants or any open source technology professional looking to learn or expand their knowledge in architecting, designing and implementing solutions based on Linux and open source software. Prior experience in Linux is required.

Cloud Computing Networking - Lee Chao
2015-09-22

Cloud computing is the most significant technology transformation since the introduction of the Internet in the early 1990s. As more and more companies and educational institutions plan to adopt a cloud-based IT infrastructure,

today's job market requires IT professionals who understand cloud computing and have hands-on experience developing cloud-based networks. *Cloud Computing Networking: Theory, Practice, and Development* covers the key networking and system administration concepts as well as the vital hands-on skills you need to master cloud technology. This book is designed to help you quickly get started in deploying cloud services for a real-world business. It provides detailed step-by-step instructions for creating a fully functioning cloud-based IT infrastructure using the Microsoft Azure cloud platform. In this environment, you can develop cloud services collaboratively or individually. The book enhances your hands-on skills through numerous lab activities. In these lab activities, you will learn to Implement the following services in a cloud environment: Active Directory, DHCP, DNS, and Certificate Services

- Configure Windows Server so it can route IP traffic
- Implement IP Security Policy and Windows Firewall with Advanced Security tools
- Create a point-to-site connection between Microsoft Azure and a local computer
- Create a site-to-site connection between Microsoft Azure and an on-premises network
- Develop a hybrid cloud that integrates Microsoft Azure with a private cloud created on a local network

Cloud Computing Networking: Theory, Practice, and Development includes numerous examples, figures, and screen shots to help you understand the information. Each chapter concludes with a summary of the major topics and a set of review questions. With this book, you will soon have the critical knowledge and skills to develop and manage cloud-based networks.

Mastering Azure Security - Mustafa Toroman
2020-05-06

Mastering Azure Security enables you to implement top-level security in your Azure tenant. With a focus on cloud security, this book will look at the architectural approach on how to design your Azure solutions to keep and enforce resources secure.

Microsoft Azure Administrator Exam Prep (AZ-104) - Lalit Rawat 2022-11-18

Step by step exam guide to learn Microsoft Azure Administration with hands-on labs

KEY FEATURES ● Includes subject matter expertise in implementing, managing, and monitoring your

organization's Microsoft Azure environment. ● Covers all exam topics, including virtual networks, storage, computing, identity, security, and governance. ● Includes exam tips, practice exam questions, and in-depth explanations to get certified on the first attempt. DESCRIPTION In cloud computing, getting certified as an Azure Administrator is one of the most highly sought-after sets of abilities. Author Lalit Rawat brings the lab's experience to this updated and extended second edition to help you launch your test preparation with the practical practice of how a certified Azure administrator handles enterprise cloud architecture. This book will help you understand the fundamental and more advanced aspects of Azure administration. In-depth coverage is provided for various topics, including how to sync your existing on-premises active directory with the Azure directory and how to use the user management features of Azure Active Directory. The book also provides an exam-based scenario explanation for the Azure Virtual Machine, the Azure Storage Account, and the Azure Networking service. The book also includes topics such as Azure Monitor, Azure networking, on-premises to Azure connectivity, site-to-site connections, express route, and disaster and backup recovery solutions. In addition, you will enjoy chapters specifically devoted to Exam Preparation Guidelines and Mock Exams, which will assist you in the exam assessments that test your knowledge. WHAT YOU WILL LEARN ● Train to work as an Azure administrator using the Microsoft Azure lab environment. ● Excellent familiarity with Microsoft Azure and all other essentials of cloud administration. ● Set up a corporate cloud system based on Azure. ● Build and expand your organization's virtual infrastructure. ● Implement web apps and containers. ● Implement storage solutions and manage the network traffic. ● Set up, size, monitor, and change your resources to meet the needs of your business. WHO THIS BOOK IS FOR This book is intended for Azure Administrators, Cloud Engineers, Windows/Linux Administrators, Technical Specialists, and Consultants who wish to get certified in Azure and expand their expertise to expert-level skills on the platform. Knowing Powershell and CLI should be enough to read

through this book. TABLE OF CONTENTS 1. Managing Azure AD Objects 2. Implementing and Managing Hybrid Identities 3. Managing Role Assignments Through the RBAC Policy 4. Managing Azure Subscription and Resource Management 5. Managing and Configuring of Azure Storage Accounts 6. Manage Data in Azure Storage 7. The Azure File Share 8. Creating and Configuring of Azure VMs 9. Automating Deployment of VMs 10. Creating and Configuring Container 11. Creating and Configuring Web Apps 12. Virtual Network Configuration and Integration On-Prem to Azure 13. Configuring Load Balancing 14. Securing Access to Virtual Networks 15. Monitoring and Troubleshooting of Virtual Networking 16. Analyzing Resource Utilization and Consumption 17. Implementation of Azure Backup and Disaster Recovery 18. Exam Preparation Guidelines and Assessment Based on Live Questions

Hands-On Big Data Modeling - James Lee
2018-11-30

Solve all big data problems by learning how to create efficient data models Key Features Create effective models that get the most out of big data Apply your knowledge to datasets from Twitter and weather data to learn big data Tackle different data modeling challenges with expert techniques presented in this book Book Description Modeling and managing data is a central focus of all big data projects. In fact, a database is considered to be effective only if you have a logical and sophisticated data model. This book will help you develop practical skills in modeling your own big data projects and improve the performance of analytical queries for your specific business requirements. To start with, you'll get a quick introduction to big data and understand the different data modeling and data management platforms for big data. Then you'll work with structured and semi-structured data with the help of real-life examples. Once you've got to grips with the basics, you'll use the SQL Developer Data Modeler to create your own data models containing different file types such as CSV, XML, and JSON. You'll also learn to create graph data models and explore data modeling with streaming data using real-world datasets. By the end of this book, you'll be able to design and develop efficient data models for

varying data sizes easily and efficiently. What you will learn Get insights into big data and discover various data models Explore conceptual, logical, and big data models Understand how to model data containing different file types Run through data modeling with examples of Twitter, Bitcoin, IMDB and weather data modeling Create data models such as Graph Data and Vector Space Model structured and unstructured data using Python and R Who this book is for This book is great for programmers, geologists, biologists, and every professional who deals with spatial data. If you want to learn how to handle GIS, GPS, and remote sensing data, then this book is for you. Basic knowledge of R and QGIS would be helpful.

Exam Ref AZ-104 Microsoft Azure Administrator Certification and Beyond -

Riaan Lowe 2022-07-22

Navigate Microsoft Azure cloud services like storage, security, networking, and compute cloud capabilities with ease and pass the AZ-104 exam while developing skills for daily use Key Features Get to grips with AZ-104 exam topics like infrastructure and applications to help with Azure administration Experience Azure through practical labs based on real-world administrative tasks Learn practical management tips from experienced professionals Book Description Exam Ref AZ-104 Microsoft Azure Administrator Certification and Beyond covers all the exam objectives and will help you to earn the Microsoft Azure Administrator certification with ease. Whether you're studying to pass the AZ-104 exam or just want hands-on experience in administering Azure, this AZ-104 study guide will help you to achieve your objectives. This book covers the latest Azure features and capabilities around configuring, managing, and securing Azure resources. Adhering to Microsoft's AZ-104 exam syllabus, this guide is divided into five modules. The first module will show you how to manage Azure identities and governance. You'll find out how to configure Azure subscription policies at the Azure subscription level and use Azure policies for resource groups. After that, the book covers techniques related to implementing and managing storage in Azure, enabling you to create and manage Azure Storage, including File and Blob storage. In the second module, you'll

learn how to deploy and manage Azure compute resources. The third and fourth modules will teach you about configuring and managing virtual networks and monitoring and backing up Azure resources. Finally, you'll work through mock tests, with answers provided, to prepare for this exam. By the end of this book, you'll have the skills needed to pass the AZ-104 exam and be able to expertly manage Azure. What you will learn Manage Azure Active Directory users and groups along with role-based access control (RBAC) Discover how to handle subscriptions and implement governance Implement and manage storage solutions Modify and deploy Azure Resource Manager templates Create and configure containers and Microsoft Azure app services Implement, manage, and secure virtual networks Find out how to monitor resources via Azure Monitor Implement backup and recovery solutions Who this book is for This book is for cloud administrators, engineers, and architects looking to understand Azure better and gain a firm grasp on administrative functions or anyone preparing to take the Microsoft Azure Administrator (AZ-104) exam. A basic understanding of the Azure platform is needed, but astute readers can comfortably learn all the concepts without having worked on the platform before by following all examples in the book.

Hands-On Azure Data Platform - Sagar Lad 2022-02-10

Plan, build, deploy, and monitor data solutions on Azure KEY FEATURES ● Work with PostgreSQL, MySQL, and CosmosDB databases on Microsoft Azure. ● Work with whole data architecture, leverage Azure Storage, Azure Synapse, and Azure Data Lake. ● Data integration strategies with Azure Data Factory and Data Bricks. DESCRIPTION 'Hands-On Azure Data Platform' helps readers get a fundamental understanding of the Database, Data Warehouse, and Data Lake and their management on the Azure Data Platform. The book describes how to work efficiently with Relational and Non-Relational Databases, Azure Synapse Analytics, and Azure Data Lake. The readers will use Azure Databricks and Azure Data Factory to experience data processing and transformation. The book delves deeply into topics like continuous integration, continuous delivery, and the use of Azure DevOps. The book

focuses on the integration of Azure DevOps with CI/CD pipelines for data ops solutions. The book teaches readers how to migrate data from an on-premises system or another cloud service provider to Azure. After reading the book, readers will develop end-to-end data solutions using the Azure data platform. Additionally, data engineers and ETL developers can streamline their ETL operations using various efficient Azure services. WHAT YOU WILL LEARN ● In-depth knowledge of the principles of the data warehouse and the data lake. ● Acquaint yourself with Azure Storage Files, Blobs, and Queues. ● Create relational databases on the Azure platform using SQL, PostgreSQL, and MySQL. ● With Cosmos DB, you can create extremely scalable databases and data warehouses. ● Utilize Azure Databricks and

Data Factory to develop data integration solutions. WHO THIS BOOK IS FOR This book is designed for big data engineers, data architects, and cloud engineers who want to understand how to use the Azure Data Platform to build enterprise-grade solutions. Learning about databases and the Azure Data Platform would be helpful but not necessary. TABLE OF CONTENTS 1. Getting Started with the Azure Data Platform 2. Working with Relational Databases on Azure 3. Working with Azure Synapse Analytics 4. Working with Azure Data Lake 5. Working with Azure Cosmos DB 6. Working with Azure Databricks 7. Working with Azure Data Factory 8. DevOps with the Azure Data Platform 9. Planning and Migrating On-Premises Azure Workloads to the Azure Data platform 10. Design and Implement Data Solutions on Azure