

Powershell 101 A Quick Start Guide To

This book gets you started and gives you knowledge about AWS Fargate in order to successfully incorporate it in your ECS container application. Key Features Gives you a quick wa the Amazon Elastic Container Services (ECS) Provides an in depth knowledge of the components that Amazon Fargate has to offer. Learn the practical aspects of Docker application with a managed service Book Description Amazon Fargate is new launch type for the Amazon Elastic Container Service (ECS). ECS is an AWS service for Docker container orchestration the de facto containerization framework and has revolutionized packaging and deployment of software. The introduction of Fargate has made the ECS platform serverless. The book through how Amazon Fargate runs ECS services composed of tasks and Docker containers and exposes the containers to the user. Fargate has simplified the ECS platform. We will Fargate creates an Elastic Network Interface (ENI) for each task and how auto scaling can be enabled for ECS tasks. You will also learn about using an IAM policy to download Doc send logs to CloudWatch. Finally, by the end of this book, you will have learned about how to use ECS CLI to create an ECS cluster and deploy tasks with Docker Compose. What you Running Docker containers with a managed service Use Amazon ECS in Fargate launch mode Configure CloudWatch Logging with Fargate Use an IAM Role with Fargate Understand CLI is used with Fargate Learn how to use an Application Load Balancer with Fargate Learn about Auto Scaling with Fargate Who this book is for This book is for Docker users and want to learn about the Fargate platform. Typical job roles for which the book is suitable are DevOps Architect, Docker Engineer, and AWS Cloud Engineer. Prior knowledge of AWS helpful but not mandatory.

In this fast-paced 100-page guide, you'll learn to load, display and interact with dynamic, data-powered Visio diagrams in SharePoint 2013 or Office 365. Visio Services Quick Guide tools to build anything from a simple project workflow to an organizational infrastructure diagram, powered by real data from SharePoint or SQL Server. Colleagues can load your d entirely in the browser, meaning that a single Visio client installation is enough to get started. Readers with JavaScript experience will also find out how to get additional control o using the JavaScript mashup API, and how to build a custom data provider. The final chapter covers some useful information on administering Visio Services. Get started bringing yo diagrams to life with the Visio Services Quick Guide.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Modernize your IT world of cloud computing! Whether you are an IT administrator, developer, or architect, cloud technologies are transforming your role. This guide brings together the knowledge you transition smoothly to Microsoft Office 365 cloud-only and hybrid environments. Microsoft MVP Ben Curry and leading cloud architect Brian Laws present specific, up-to-date guid administering key cloud technologies, including Microsoft Office 365, SharePoint Online, Azure AD, and OneDrive for Business. Microsoft cloud technology experts Ben Curry and Bri you how to: Anticipate and respond to the ways cloud technologies change your responsibilities, such as scripting key management tasks via Windows PowerShell Understand toda essential "Cloud Pro" skills related to infrastructure, scripting, security, and networking Master modern cloud administration for Office 365 cloud and hybrid environments to deliver services, any time, on any device, from anywhere, and across organizational boundaries Administer and configure SharePoint Online, including services, site collections, and hybrid fe secure client devices via Mobile Device Management for Office 365 Centrally manage user profiles, groups, apps, and social features Bridge Office 365 and on-premises environmen identities and data Enforce governance, security, and compliance

If you are looking for a comprehensive, soup-to-nuts resource on SSL/TLS, look no further. This book, geared towards bridging the gap between the absolute beginner and the veter Professional, combines the theoretical and the practical in equal measure. The first half of our book focuses on foundational theory, covering topics such as: Symmetric vs Asymme One-Way functions Digital Signatures Key Generation History and Context The second half encourages fledgling administrators to jump in with both feet, outlining the quirks of con as: Generating a signing request for a certificate (CSR) Generating a self-signed certificate (and when it is safe to do or not do so) Converting certificates between different forma keystores Configuring servers to meet best practices, not in a vacuum, but for the security and compatibility needs of your business vertical. Are you a systems administrator just developer looking to not just implement, but to understand? Or perhaps SSL/TLS has been a topic you've avoided over the years because it is very dense and implementation can be fidgety pitfalls. You can read this book cover to cover, crosswalk to the copiously linked RFCs, or use it as a desk reference. This is SSL/TLS for everyone.

An administrator's guide to deploying, configuring, securing, managing, and monitoring devices and client applications in an enterprise environment and passing Exam MD-100: Wind Key FeaturesEquip yourself to earn the Microsoft 365 Certified: Modern Desktop Administrator Associate certificationDevelop the skills needed to pass the Exam MD-100 and adva organizationLearn to install Windows 10 operating systems and deploy and manage modern desktops and devicesBook Description Microsoft Exam MD-100 Windows 10 Certification complete, up-to-date coverage of the MD-100 exam, helping you take the exam with confidence, fully equipped to pass on the first attempt. Complete with a clear, succinct explan concepts, self-assessment questions, tips, and mock exams with detailed answers, this MD-100 study guide covers different facets of upgrading and deploying Windows 10. You'll manage devices and data, configure connectivity, troubleshoot OS and app problems, and secure and maintain Windows 10 with updates and recovery. You'll also explore different V editions and learn how to choose the best fit for your organization. This book will guide you in installing and configuring Windows 10 using different approaches. As you advance, y with managing local users and groups in Windows 10 and learn how to establish connections via different networks, such as a LAN and WLAN/Wi-Fi. By the end of this book, you'll everything you need to pass the MD-100 certification exam and become a Microsoft 365 Certified: Modern Desktop Administrator Associate. What you will learnDeploy Windows 1 waysManage local users, groups, and devicesConfigure networking and remote connectivityGain insights into Windows 10 maintenanceCustomize different Windows 10 featuresBe troubleshooting and recoveryGet to grips with managing log filesMonitor and manage Windows securityWho this book is for This book is for both experienced and novice IT adminis work with deploying, configuring, securing, and monitoring devices. Anyone with a working knowledge of managing identity, access, policies, updates, and apps can take this exam.

necessary, experience with Microsoft 365 workloads, Windows 10 devices, and non-Windows devices will be helpful.

Learn Windows PowerShell 3 in a Month of Lunches

Building hybrid cloud, IaaS, and PaaS solutions

MCSA 70-741 Cert Guide

Exam Ref 70-532 Developing Microsoft Azure Solutions

Getting Started with PowerShell

The ultimate guide to becoming MCSA certified

Your hands-on, step-by-step guide to automating Windows administration with Windows PowerShell 3.0 Teach yourself the fundamentals of Windows PowerShell 3.0 command line interface and scripting language—one step at a time. Written by a leading scripting expert, this practical tutorial delivers learn-by-doing exercises, timesaving tips, and hands-on sample scripts for performing administrative tasks on both local and remote Windows systems. Discover how to: Use built-in cmdlets to execute commands Write scripts to handle recurring tasks Use providers to access information beyond the shell environment Configure network components with Windows Management Instrumentation Manage users, groups, and computers with Active Directory services Execute scripts to administer and troubleshoot Microsoft Exchange Server 2010

Dive in—and discover how to really put Windows Server 2012 to work! This supremely organized reference packs the details you need to plan and manage a Windows Server 2012 implementation—including hundreds of timesaving solutions, troubleshooting tips, and workarounds. Learn how the experts tackle Windows Server 2012—and challenge yourself to new levels of mastery. Topics include: Managing Windows Server 2012 systems Storage and file systems TCP/IP networking DHCP and DNS Active Directory Group Policy Security and access Troubleshooting hardware Performance monitoring and tuning Backup and recovery

A step-by-step guide to get you up and running with Azure Storage services and helps you build solutions that leverage effective design patterns About This Book Discover best practices for designing and implementing Azure Storage for Azure VMs, and highly available apps Effectively plan, design, and implement SQL databases with Azure Protect your data with Azure Backup and Azure Site Recovery Who This Book Is For This book is targeted at Developers, IT Professionals, and even Database Admins who have experience of working on Microsoft Azure and want to make the most of Azure Storage services. Some knowledge of SQL Server will be beneficial. What You Will Learn Understand Azure Storage types and determine the appropriate one for your needs Design Azure Storage for Azure VMs according to best practices Design and implement your SQL Database on Azure according to best practices Learn how to work with Azure Backup Learn how to work with Azure Site Recovery Extend Azure Storage to StorSimple Monitor storage metrics and logs and customize the Azure monitoring dashboard Monitor and troubleshoot Azure Storage In Detail Microsoft Azure Storage is the bedrock of Microsoft's core storage solution offering in Azure. No matter what solution you are building for the cloud, you'll find a compelling use for Azure Storage. This book will help you get up-to-speed quickly on Microsoft Azure Storage by teaching you how to use the different storage services. You will be able to leverage secure design patterns based on real-world scenarios and develop a strong storage foundation for Azure virtual machines. You will start this book with an introduction to Microsoft Azure storage and how it can be used to build large-scale, real-world applications using Azure storage services such as blob, table, queue, and file. This book will also teach you about the different types of Azure Storage. You will then find out the best practices for designing your Azure VM storage, whether it is Windows based or Linux based and how to migrate your storage in different scenarios. You will learn also how to plan and implement your SQL database solution on Azure, and how to build your SQL database in different service models (IaaS/PaaS). Moreover, you will also learn best practices for dealing with Azure Backup, the role of Azure Site Recovery, and the solutions they offer in different scenarios. Finally, you will use StorSimple to unlock the maximum value from all of your data, and some tools that will help you manage your storage on-and off-premise (Azure), such as AzCopy and Storage Explorer. Monitoring your storage is no laughing matter, so you will learn to monitor, diagnose and troubleshoot it. Style and approach This book will provide an in-depth insight into properly designing your environment and saving money on your running workloads. Using cutting-edge examples, you will be able to efficiently monitor, diagnose, and troubleshoot Azure Storage.

Build a seamless, flexible, full-service datacenter solution Microsoft Windows Server 2016 Hyper-V is the IT administrator's guide to this rising datacenter solution. Hyper-V has already surpassed VMWare in datacenter management, identity service for multiple devices, and more; this book shows you how to harness the power of this hypervisor to simplify the infrastructure, reduce costs, improve productivity, and better manage system resources. From a tour of the technology through architecture, deployment, and integration of System Center, Microsoft Azure, and Microsoft Azure Stack, the discussion illustrates the skills you need to create a complete solution for optimum enterprise management. Coverage includes Windows Azure capabilities for virtual machines, managing a hybrid cloud, IaaS, storage capabilities, PowerShell, and more, with practical real-world guidance from a leading authority in the field. Hyper-V has recently undergone improvements in scalability and features that have positioned it as an ideal solution in the Small/Medium Business and Enterprise markets. This book shows you how to exploit these new capabilities to build a robust data solution for your organization. Discover the capabilities of Microsoft Hyper-V Architect a Hyper-V datacenter solution Plan and manage a deployment or migration Integrate complementary technologies for full scalability Data is everywhere—on desktops, laptops, phones, and multiple operating systems, accessed through email, text messages, web searches, online services, and more. All of this data must be stored, accessible, updated, backed up, secured, managed, sorted, and

analyzed—sometimes instantly. Hyper-V is the rising star in the virtualization space, and Microsoft Windows Server 2016 Hyper-V shows you how to turn greater capabilities into better datacenter solutions.

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for MCSA 70-741 exam success with this Cert Guide from Pearson IT Certification, a leader in IT certification. Master MCSA 70-741 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks MCSA 70-741 Cert Guide is a best-of-breed exam study guide. Leading technology trainer and consultant Michael S. Schulz 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. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The study guide helps you master all the topics on the MCSA 70-741 exam for Windows Server 2016, including DNS implementation, including server configuration, zones, records, policies, DNSSEC, and DANE DHCP, including server installation, configuration, and scopes IPAM, including installation/configuration, DNS/DHCP management, and auditing Network connectivity and remote access solutions, including VPN, DirectAccess, NPS Radius, and wired clients Core and distributed network solutions, including IPv4 and IPv6 addressing, DFS, and branch office solutions Advanced network infrastructure

Microsoft Windows Server 2012 Inside Out

From IT Pro to Cloud Pro Microsoft Office 365 and SharePoint Online

Learn Azure in a Month of Lunches, Second Edition

Learn the skills required to become a Microsoft Certified Modern Desktop Administrator Associate

Windows PowerShell 3.0 Step by Step

Windows PowerShell Cookbook

This book is great for administrators who are new to automating Hyper-V administration tasks using PowerShell. If you are familiar with the PowerShell command with the Windows Server, this book is perfect for you.

Presents a guide on how to use Windows PowerShell to script Windows administrative tasks and control Windows from the command line.

Prepare for Microsoft Exam AZ-103—and help demonstrate your real-world mastery of deploying and managing infrastructure in Microsoft Azure cloud environment. cloud professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Cert the expertise measured by these objectives: Manage Azure subscriptions and resources Implement and manage storage Deploy and manage virtual machines (VMs) networks Manage identities This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you administrator who understands and manages diverse storage, security, networking and/or compute cloud services About the Exam Exam AZ-103 focuses on skills a manage Azure subscriptions; analyze resource utilization and consumption; manage resource groups; establish storage accounts; import/export data; configure Azure create, configure, and automate VM deployment; manage VMs and VM backups; implement, manage, and connect virtual networks; configure name resolution; create Security Groups; manage Azure AD and its objects; and implement and manage hybrid identities. About Microsoft Certification Passing exam AZ-103 earns your Mic Administrator Associate certification, demonstrating your skills in implementing, monitoring, and maintaining Microsoft Azure solutions, including major services rela network, and security.

This book is designed to be like a conference in a book where each chapter is written by a different author who is a subject matter expert on the topic covered independent of the others so you can read one chapter, ten chapters, or all of them. You can start with the first chapter, the last one, or somewhere in-between to that particular topic. This book is written for the intermediate to advanced audience. Prior experience with PowerShell is highly recommended. 100% of the royalties go to the PowerShell + DevOps Global Summit's OnRamp Scholarship Program. Learn more at PowerShellSummit.org.

If your organization plans to move to a cloud infrastructure from a LAN or WAN, this book shows you how to do it efficiently with Windows Server 2012. Experience learn how to deploy, configure, and manage the server's expanded capabilities and features step-by-step, using clear examples and numerous screen shots. You'll a employees' private mobile devices into your corporate network. Whether you intend to take your infrastructure to a public, private, or hybrid cloud environment, W the virtualization technology to get you there. This book helps you put it to work. Control your entire Windows infrastructure from the Server Manager console Le Domain Services provide more centralized network administration Use Dynamic Access Control to manage data and user permissions Provide data integrity and fault Spaces and ReFS Gain robust management of virtual environments with Hyper V R3 Master networking tools such as IPAM to help you move to the cloud Connect through Unified Remote Access

PowerShell Deep Dives

MCSA Windows Server 2016 Certification Guide: Exam 70-741

Windows Azure Mobile Services

Volume 1

Upgrading, Installing, and Optimizing Windows Server 2012

This book is mainly useful for security researchers and ethical hackers. Everyone knows about search engine and no one knows about the process behind it. This book explains about all the process behind search engine. So this book can be used by all kind of people. This book also explains to decrypt the Google user input and how to modify this decrypted input. It can be used as an advanced foot printing tool. The accurate output needed by the search engine user can be obtained after learning this book. The working method of Google in all over countries are also explained. Hacking live camera in bank, schools, colleges are also listed. All the working methods are explained with neat screen shots and so it is easy to understand. If anyone has an interest with search engine you can surely buy this book and make use of it.

Get up and running with Windows Azure Mobile Services Windows Azure Mobile Services (WAMS) is a turn-key backend solution for applications, mobile or otherwise, to utilize structured storage in the cloud. It includes basic data access functionality and built-in authentication with Microsoft Account, Facebook, Twitter and Google, as well as push notification to the client app. This compact, to the point book gives you just what you need to get up and running with these tools. Demonstrates how to add, update, delete and retrieve data using standard .NET classes or REST-based requests Describes how Windows Azure Mobile Services supports authentication of the user and looks at the mechanism used to authenticate the user Features a number of examples that show how the WAMS scripting capability can be used to meet real-world business needs Examines the limits of Windows Azure Mobile Services, including scalability, database integration, and redundancy options This book shows you exactly how to take advantage of the functionality offered by Windows Azure Mobile Services.

Windows PowerShell is a shell that Microsoft initially developed for task automation and configuration management purposes. PowerShell is now an open source project and can be installed on platforms running Windows, MacOS, and Linux. This shell is based on the .NET framework and includes a scripting language and a command-line shell. It brings many benefits to power-users and IT professionals. However, casual users can benefit from using it too. The knowledge and skills that you gain from this book can allow you to grasp the basics of windows Powershell scripting. THIS GUIDE contains chapters on... HISTORY OF POWERSHELL LEARNING POWERSHELL FROM THE START WHAT IS POWERSHELL ISE THE DIFFERENCE BETWEEN POWERSHELL AND CMD POWERSHELL PROVIDERS AND MODULES WHAT MAKES A POWERSHELL OBJECT? OTHER POWERSHELL COMMANDS UNDERSTANDING OF POWERSHELL FOREACH LOOP AND FOREACH-OBJECT WINDOWS POWERSHELL PROVIDERS. For the benefits of this book, buy it right now Provides information on planning and managing Windows Server 2012, including tips on troubleshooting, workarounds, and handling system administration tasks.

Untold Secret of Google HacksANTO

Exam Ref 70-533 Implementing Microsoft Azure Infrastructure Solutions

Mastering Windows Server 2016 Hyper-V

Automating SharePoint 2010 with Windows PowerShell 2.0

Amazon Fargate Quick Start Guide

The essential handbook to cloud transformation with Azure, 4th Edition

Deploy and manage Azure virtual machines with ease

Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. Summary You can be incredibly productive with Azure without mastering every feature, function, and service. Learn Azure in a Month of Lunches, Second Edition gets you up and running quickly, teaching you the most important concepts and tasks in 21 practical bite-sized lessons. As you explore the examples, exercises, and labs, you'll pick up valuable skills immediately and take your first steps to Azure mastery! This fully revised new edition covers core changes to the Azure UI, new Azure features, Azure containers, and the upgraded Azure Kubernetes Service. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microsoft Azure is vast and powerful, offering virtual servers, application templates, and prebuilt services for everything from data storage to AI. To navigate it all, you need a trustworthy guide. In this book, Microsoft engineer and Azure trainer Iain Foulds focuses on core skills for creating cloud-based applications. About the book Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. What's inside Understanding Azure beyond point-and-click Securing applications and data Automating your environment Azure services for machine learning, containers, and more About the reader This

book is for readers who can write and deploy simple web or client/server applications. About the author Iain Foulds is an engineer and senior content developer with Microsoft. Table of Contents PART 1 - AZURE CORE SERVICES 1 Before you begin 2 Creating a virtual machine 3 Azure Web Apps 4 Introduction to Azure Storage 5 Azure Networking basics PART 2 - HIGH AVAILABILITY AND SCALE 6 Azure Resource Manager 7 High availability and redundancy 8 Load-balancing applications 9 Applications that scale 10 Global databases with Cosmos DB 11 Managing network traffic and routing 12 Monitoring and troubleshooting PART 3 - SECURE BY DEFAULT 13 Backup, recovery, and replication 14 Data encryption 15 Securing information with Azure Key Vault 16 Azure Security Center and updates PART 4 - THE COOL STUFF 17 Machine learning and artificial intelligence 18 Azure Automation 19 Azure containers 20 Azure and the Internet of Things 21 Serverless computing

Get started with this powerful Windows administration tool Automate Windows administration tasks with ease by learning the fundamentals of Windows PowerShell 3.0. Led by a Windows PowerShell expert, you'll learn must-know concepts and techniques through easy-to-follow explanations, examples, and exercises. Once you complete this practical introduction, you can go deeper into the Windows PowerShell command line interface and scripting language with Windows PowerShell 3.0 Step by Step. Discover how to: Create effective Windows PowerShell commands with one line of code Apply Windows PowerShell commands across several Windows platforms Identify missing hotfixes and service packs with a single command Sort, group, and filter data using the Windows PowerShell pipeline Create users, groups, and organizational units in Active Directory Add computers to a domain or workgroup with a single line of code Run Windows PowerShell commands on multiple remote computers Unleash the power of scripting with Windows Management Instrumentation (WMI)

Leverage PowerShell to perform many day-to-day tasks in Microsoft Azure Key Features Deploy and manage Azure virtual machines with PowerShell commands. Get to grips with core concept of Azure PowerShell such as working with images and disks, custom script extension, high availability and more. Leverage hands-on projects to successfully apply what you learned through the course of this book. Book Description As an IT professional, it is important to keep up with cloud technologies and learn to manage those technologies. PowerShell is a critical tool that must be learned in order to effectively and more easily manage many Azure resources. This book is designed to teach you to leverage PowerShell to enable you to perform many day-to-day tasks in Microsoft Azure. Taking you through the basic tasks of installing Azure PowerShell and connecting to Azure, you will learn to properly connect to an Azure tenant with PowerShell. Next, you will dive into tasks such as deploying virtual machines with PowerShell, resizing them, and managing their power states with PowerShell. Then, you will learn how to complete more complex Azure tasks with PowerShell, such as deploying virtual machines from custom images, creating images from existing virtual machines, and creating and managing of data disks. Later, you will learn how to snapshot virtual machines, how to encrypt virtual machines, and how to leverage load balancers to ensure high availability with PowerShell. By the end of this book, you will have developed dozens of PowerShell skills that are invaluable in the deployment and management of Azure virtual machines. What you will learn Manage virtual machines with PowerShell Resize a virtual machine with PowerShell Create OS disk snapshots via PowerShell Deploy new virtual machines from snapshots via PowerShell Provision and attach data disks to a virtual machine via PowerShell Load balance virtual machines with PowerShell Manage virtual machines with custom script extensions Who this book is for This book is intended for IT professionals who are responsible for managing Azure virtual machines. No prior PowerShell or Azure experience is needed.

Prepare for Microsoft Exam 70-532—and help demonstrate your real-world mastery of the skills needed to develop Microsoft Azure solutions. Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for job success. Focus on the expertise measured by these objectives: Create and manage Azure Resource Manager Virtual Machines Design and implement a storage and data strategy Manage identity, application, and network services Design and implement Azure PaaS compute, web, and mobile services This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you have experience designing, programming, implementing, automating, and monitoring Microsoft Azure solutions, and are proficient with tools, techniques, and approaches for building scalable, resilient solutions About the Exam Exam 70-532 focuses on skills and knowledge for building highly available solutions in the Microsoft Azure cloud. About Microsoft Certification This exam is for candidates who are experienced in designing, programming, implementing, automating, and monitoring Microsoft Azure solutions. Candidates are also proficient with development tools, techniques, and approaches used to build scalable and resilient solutions. See full details at: microsoft.com/learning

Microsoft Hybrid Cloud Unleashed brings together comprehensive and practical insights into hybrid cloud technologies, complete CloudOps and DevOps implementation strategies, and detailed guidance for deploying Microsoft Azure Stack in your environment. Written by five Microsoft Cloud and Datacenter Management MVPs, this book is built on real-world scenarios and the authors' extraordinary hands-on experiences as early adopters. Step by step, the authors help you integrate your optimal mix of private and public cloud, with a unified management experience that lets you move workloads at will, achieving unprecedented flexibility. The authors also guide you through all aspects of building your own secure, high-performance hybrid cloud infrastructure. You'll discover how Azure Stack enables you to run data centers with the same scalability, redundancy, and reliability as Microsoft's Azure data centers; how to integrate Azure infrastructure and platform services with internal operations; and how to manage crucial external dependencies. The book concludes with a deep dive into automating and customizing Azure Stack for maximum reliability, productivity, and cost savings. Detailed information on how to Run a private/hybrid cloud on your hardware in your data center, using APIs and code identical to public Azure Apply ITIL and DevOps lifecycles to your hybrid cloud implementation Gain a deep understanding of Azure Stack architecture, components, and internals Install and configure Azure Stack and master the Azure Stack Portal Integrate and utilize infrastructure, core, and custom resource providers Effectively provision, secure, and manage tenants Manage, monitor, troubleshoot, and back up Azure Stack with CloudOps Automate resource provisioning with PowerShell, the Azure CLI, templates, and Azure Stack's API Write your own Azure Resource Manager templates Centrally automate cloud management and complex tasks connected to external systems Develop customized, production-ready Azure Stack marketplace items

Windows PowerShell 3.0 First Steps

Learn Docker like a boss, and finally own your applications

A Guide to Understanding SSL/TLS Cryptography

Visio Services Quick Guide

SSL/TLS Under Lock and Key

Build large-scale, real-world apps by effectively planning, deploying, and implementing Azure storage solutions

Build, operate, and orchestrate scalable microservices applications in the cloud This book combines a comprehensive guide to success with Microsoft Azure Service Fabric and a practical catalog of design patterns and best practices for microservices design, implementation, and operation. Haishi Bai brings together all the information you'll need to deliver scalable and reliable distributed microservices applications on Service Fabric. He thoroughly covers the crucial DevOps aspects of utilizing Service Fabric, reviews its interactions with key cloud-based services, and introduces essential service integration mechanisms such as messaging systems and reactive systems. Leading Microsoft Azure expert Haishi Bai shows how to: Set up your Service Fabric development environment Program and deploy Service Fabric applications to a local or a cloud-based cluster Compare and use stateful services, stateless services, and the actor model Design Service Fabric applications

to maximize availability, reliability, and scalability Improve management efficiency via scripting Configure network security and other advanced cluster settings Collect diagnostic data, and use Azure Operational Management Suite to interpret it Integrate microservices components developed in parallel Use containers to mobilize applications for failover, replication, scaling, and load balancing Streamline containerization with Docker in Linux and Windows environments Orchestrate containers to schedule workloads and maintain services at desired states Implement proven design patterns for common cloud application workloads Balance throughput, latency, scalability, and cost

Your hands-on guide to Windows PowerShell scripting fundamentals Expand your expertise--and teach yourself the fundamentals of Windows PowerShell scripting, including features available in Windows PowerShell 5. If you are an IT professional, power user, or consultant, you'll get the guidance, exercises, and code you need to master core techniques for automating Windows setup, deployment, and management. Discover how to: Run cmdlets and command-line utilities Administer Windows-based servers and desktops with built-in cmdlets Use providers to access external information Write and run scripts from the Windows ISE Create functions that are easy to maintain Build standardized environments with profiles Automate Windows systems with WMI, CIM cmdlets, and remoting Automate Active Directory Domain Services (AD DS) Debug scripts and handle errors Run commands that survive interruptions Use Desired State Configuration (DSC) to manage software services and their environments Get powerful new modules from PowerShell Gallery About You This book is for: IT professionals and power users who want to get productive with Windows PowerShell, including new features in Windows PowerShell 5 Windows system administrators who want to be more efficient and productive Anyone pursuing Windows PowerShell certifications No experience with Windows PowerShell or other scripting technologies necessary

Summary Here's your chance to learn from the best in the business. PowerShell Deep Dives is a trove of essential techniques, practical guidance, and the expert insights you earn only through years of experience. Editors Jeffery Hicks, Richard Siddaway, Oisin Grehan, and Aleksandar Nikolic hand-picked the 28 chapters in the book's four parts: Administration, Scripting, Development, and Platforms. About the Technology PowerShell has permanently changed Windows administration. This powerful scripting and automation tool allows you to control virtually every aspect of Windows and most Microsoft servers like IIS and SQL Server. Here's your chance to learn from the best in the business. About this Book PowerShell Deep Dives is a trove of essential techniques and practical guidance. It is rich with insights from experts who won them through years of experience. The book's 28 chapters, grouped in four parts (Administration, Scripting, Development, and Platforms), were hand-picked by four section editors: Jeffery Hicks, Richard Siddaway, Oisin Grehan, and Aleksandar Nikolic. Whether you're just getting started with PowerShell or you already use it daily, you'll find yourself returning to this book over and over. What's Inside Managing systems through a keyhole The Ten Commandments of PowerShell scripting Scalable scripting for large datasets Adding automatic remoting Provisioning web servers and websites automatically to IIS 8 And 23 more fantastic chapters Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Authors Editors Jeffery Hicks, Richard Siddaway, Oisin Grehan, and Aleksandar Nikolic are joined by PowerShell experts Chris Bellee, Bartek Bielawski, Robert C. Cain, Jim Christopher, Adam Driscoll, Josh Gavant, Jason Helmick, Don Jones, Ashley McGlone, Jonathan Medd, Ben Miller, James O'Neill, Arnaud Petitjean, Vadims Podans, Karl Prosser, Boe Prox, Matthew Reynolds, Mike Robbins, Donabel Santos, Will Steele, Trevor Sullivan, and Jeff Wouters. Table of Contents PART 1 POWERSHELL ADMINISTRATION Diagnosing and troubleshooting PowerShell remoting CIM sessions 22 Collecting and analyzing performance counter data TCP port communications with PowerShell Managing systems through a keyhole Using PowerShell to audit user logon events Managing and administering a certification authority database with PowerShell Using PowerShell to reduce Active Directory token bloat PART 2 POWERSHELL SCRIPTING The 10 PowerShell scripting commandments Avoiding the pipeline A template for handling and reporting errors Tips and tricks for creating complex or advanced HTML reports with PowerShell Using and "abusing" dynamic parameters PowerShell type formatting Scalable scripting for large data sets: pipeline and database techniques Building your own WMI-based cmdlets Turning command-line tools into PowerShell tools PART 3 POWERSHELL FOR DEVELOPERS Using Source Control Software with PowerShell Inline .NET code PowerShell and XML: better together Adding automatic remoting to advanced functions and cmdlets Taming software builds (and other complicated processes) with psake PART 4 POWERSHELL PLATFORMS PowerShell and the SQL Server provider Creating flexible subscriptions in SSRS Inventory database table statistics using PowerShell SQL Server Management Objects WSUS and PowerShell Provisioning IIS web servers and sites with PowerShell Active Directory Group Management application

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: Azure Websites and Azure Cloud Services Azure Virtual Machines Azure Storage Azure Virtual Networks Databases Azure Active Directory Management tools Business scenarios Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the "Microsoft Azure Essentials" series.

With more than 250 ready-to-use recipes, this solutions-oriented introduction to the Windows PowerShell scripting environment and language provides administrators with the tools to be productive immediately.

Microsoft Azure Essentials - Fundamentals of Azure
Azure Stack Hub Demystified
Windows Server 2012 Inside Out

Azure Strategy and Implementation Guide

Docker Quick Start Guide

Exam Ref AZ-103 Microsoft Azure Administrator

Packed with hands-on activities, MCSA GUIDE TO INSTALLATION, STORAGE, AND COMPUTE WITH MICROSOFT WINDOWS SERVER 2016, EXAM 70-740 equips readers to pass the MCSE/MCSA certification exam while preparing users to become a successful Microsoft networking professional. A clear presentation emphasizes the skills to manage a Windows Server 2016 system and focuses on installation, management, and configuration. Extensive coverage of all exam objectives introduces Windows Server 2016 and covers server installation, server configuration and management, storage and file systems, Hyper-V virtualization, high availability, and server maintenance and monitoring. A full chapter highlights new technologies, including Nano Server and Windows Containers. Unlike many certification-focused books, this edition goes beyond the certification objectives to provide an understanding of the core technologies built into Windows Server. Numerous hands-on activities focus on virtualization. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Microsoft Exchange Server 2007 marks the biggest advancement in the history of the Exchange Product group. The completely re-engineered server system will change the face of how IT administrators approach Exchange. Tony Redmond, one of the world's most acclaimed Exchange experts, offers insider insight from the very basics of the newly transformed architecture to understanding the nuances of the new and improved Microsoft Management Console (MMC) 3.0 and the two new administrative interfaces—the Exchange Management Console (EMC) and the Exchange Management Shell (EMS). How Exchange works with Active Directory How the new management model works How to use the Exchange Management Shell to automate administrative operations How Outlook, Outlook Web Access, and Windows Mobile clients work with Exchange How Exchange 2007 message routing differs from previous versions How to help your users to use Exchange intelligently How to select hardware for Exchange 2007

Authoritative coverage of the latest version of Microsoft's fastest-selling product Imagine being able to perform a task that requires dozens of clicks with just a single command, or automate a series of identical tasks rather than repeat them. This book shows you how to do just that—and more—by using Windows PowerShell cmdlets with SharePoint 2010. Focused on everyday and frequently performed tasks, this invaluable guide provides PowerShell solutions for maintaining a SharePoint environment and explains how more than 500 cmdlets that come with SharePoint 2010 allows you to automate just about anything. Step-by-step instructions walk you through the necessary concepts and real-world examples enhance your learning process. Highlights the ways in which PowerShell cmdlets take the tedium out of executing frequently performed commands in SharePoint 2010 by automating everyday tasks Explains how to install and configure a SharePoint environment Details the steps for deploying and managing Web applications, site collections, authentication, and solution packages Shows you how to manage operational settings and back up and restore data Automating SharePoint 2010 with Windows PowerShell 2.0 helps you save time and effort performing common tasks so that you can be more productive.

Learn the fundamentals of PowerShell to build reusable scripts and functions to automate administrative tasks with Windows About This Book Harness the capabilities of the PowerShell system to get started quickly with server automation Learn to package commands into a reusable script and add control structures and parameters to make them flexible Get to grips with cmdlets that allow you to perform administration tasks efficiently Who This Book Is For This book is intended for Windows administrators or DevOps users who need to use PowerShell to automate tasks. Whether you know nothing about PowerShell or know just enough to get by, this guide will give you what you need to go to take your scripting to the next level. What You Will Learn Learn to verify your installed version of PowerShell, upgrade it, and start a PowerShell session using the ISE Discover PowerShell commands and cmdlets and understand PowerShell formatting Use the PowerShell help system to understand what particular cmdlets do Utilise the pipeline to perform typical data manipulation Package your code in scripts, functions, and modules Solve common problems using basic file input/output functions Find system information with WMI and CIM Automate IIS functionality and manage it using the WebAdministration module In Detail Windows PowerShell is a task-based command-line shell and scripting language designed specifically for system administration. Built on the .NET Framework, Windows PowerShell helps IT professionals and power users control and automate the administration of the Windows operating system and applications that run on Windows. PowerShell is great for batch importing or deleting large sets of user accounts and will let you collect a massive amount of detailed system information in bulk via WMI (Windows Management Instrumentation). Getting Started with PowerShell is designed to help you get up and running with PowerShell, taking you from the basics of installation, to writing scripts and web server automation. This book, as an introduction to the central topics of PowerShell, covers finding and understanding PowerShell commands and packaging code for reusability, right through to a practical example of automating IIS. It also includes topics such as installation and setup, creating scripts, automating tasks, and using Powershell to access data stores, registry, and file systems. You will explore the PowerShell environment and discover how to use cmdlets, functions, and scripts to automate Windows systems. Along the way, you will learn to perform data manipulation and solve common problems using basic file input/output functions. By the end of this book, you will be familiar with PowerShell and be able to utilize the lessons learned from the book to automate your servers. Style and approach A practical learning guide, complete with plenty of activities, examples and screenshots.

A comprehensive certification guide that will help you prepare for the exam from day one of your preparation journey Key FeaturesGet well-versed with the nitty-gritty of Windows server 2016A practical guide towards installing, upgrading, and migrating to Windows Server 2016Enhance your skills with practice questions and mock

testsBook Description MCSA: Windows Server 2016 is one of the most sought-after certifications for IT professionals which include working with Windows Server and performing administrative tasks around it. It targets Exam 70-740, Exam 70-741, Exam 70-742 and Exam 70-743 certifications and the demand for these certifications is increasingly high. This book will start with installation, upgrade and migration to Windows Server 2016, cover imaging and deployment and proceed with High Availability and Clustering. Then we will deep dive into fundamental concepts like Core networking, DNS, DHCP, Storage and proceed to Hyper-V, Network Access and Distributed File System. It will also explain Advanced Networking topics such as Software Defined Networking and High-Performance Networking. Furthermore, it will also cover advanced Identity topics in Windows Server 2016 such as Active Directory installation and configuration, Group Policy, Active Directory Certificate Services, and Active Directory Federation Services and Rights Management. Towards the end of this book, test questions and mock preparation items will help in preparing for the certifications with more ease. By the end of this book, you will be able to complete MCSA: Windows Server 2016 certification with more confidence. What you will learnPrepare for exam 70-741 Networking with Windows Server 2016Learn to apply the technology to real-world examplesLearn core networking, name resolution and connectivity technologies in Windows Server 2016.Get prepared for exam 70-742 Identity with Windows Server 2016Get ways to clear the exam 70-743 Upgrading Your Skills to MCSA: Windows Server 2016Practice critical skills and test your knowledge of the objectives of all three MCSA examsWho this book is for This book is targeted towards system administrators or windows server administrators who are interested in clearing the MCSA certification with ease.

Microsoft Exam MD-100 Windows 10 Certification Guide

Untold Secret of Google Hacks

Networking with Windows Server 2016

Learn how to use AWS Fargate to run containers with ease

Microsoft Hyper-V PowerShell Automation

The PowerShell Conference Book

Leverage Azure's cloud capabilities to find the most optimized path to meet your firm's cloud infrastructure needs Key FeaturesGet to grips with the core Azure infrastructure technologies and opt for cloud design and architecture that best fits your organizationCover the entire spectrum of cloud migration from planning to implementation and best practicesBook Description Microsoft Azure is a cloud computing platform that offers a multitude of services and capabilities for organizations of any size moving to a cloud strategy. This fourth edition comes with the latest updates on cloud services, cloud migration, Microsoft Azure Active Directory, and Windows Virtual Desktop. It encapsulates the entire spectrum of measures involved in Azure deployment that includes understanding Azure suitable cloud architecture, building on design principles, becoming familiar with Azure DevOps, and learning best practices for optimization and management. The book begins by introducing you to the Azure platform and demonstrating the substantial scope of digital transformation and innovation that can be achieved with Azure's capabilities. The guide also acquaints you with practical insights into Azure Infrastructure as a Service (IaaS) deployment, infrastructure management, key application architectures, best practices of Azure DevOps, and Azure automation. By the end of this book, you will have the skills required to drive Azure operations from the planning and cloud migration stage to cost management and troubleshooting. What you will learnUnderstand core Azure infrastructure technologies and get out detailed planning for migrating applications to the cloud with AzureDeploy and run Azure infrastructure servicesDefine roles and responsibilities in DevOpsGet a firm grip on Azure security and performance optimization in AzureWho this book is for This book is designed to benefit Azure architects, cloud solution architects, Azure developers, Azure administrators, and anyone who wants to develop and administer the Azure cloud. Basic familiarity with operating systems and databases will help you grasp the concepts covered in this book.

Develop and build your Docker images and deploy your Docker containers securely. Key FeaturesLearn Docker installation on different types of OSGet started with developing Docker imagesUse Docker in your CI/CD systemBook Description Docker is an open source software platform that helps you with creating, deploying, and running your applications using containers. This book is your ideal introduction to containerization. You will learn how to set up a Docker development environment on a Linux, Mac, or Windows workstation, and learn your way around all the commands to run and manage your Docker containers. You will explore the Dockerfile and learn how to build your own enterprise-grade Docker images. Then you will learn about Docker networks, Docker swarm, and Docker volumes, and Docker stacks in order to define, deploy, and maintain highly-scalable, fault-tolerant multi-container applications. Finally, you will learn how to leverage Docker with Jenkins to automate the building of Docker images and the deployment of Docker containers. By the end of this book, you will be well prepared when it comes to using Docker for your next project. What you will learnSet up your Docker development platformsUtilize a number of Docker commands with parametersCreate Docker images using DockerfilesLearn how to create and use Docker volumesDeploy multi-node Docker swarm infrastructure on local and remote networksDeploy multi-container applications that are HA and FTUse Jenkins to build and deploy Docker imagesWho this book is for This guide is for anyone who needs to manage and use Docker for their next project. It is for developers who want to get started using Docker right away.

Learn Pester, the unit testing framework for PowerShell! Now bundled with the Windows operating system, Pester is an open-source framework for building automated tests for your PowerShell scripts. Don Jones and Adam Bertram combine deep expertise and production experience to cover not only Pester's syntax, but numerous walkthroughs and case studies. This concise, yet in-depth guide will help you "get your testing" in no time.

Deploy, configure, administer, and run Microsoft Azure Stack Hub Key FeaturesUnderstand the topics required for the Microsoft Azure AZ-600 examConfigure and provide services from Microsoft Azure Stack HubImplement data center integration with Microsoft Azure Stack HubBook Description Azure Stack Hub is the on-premise offering from Microsoft, which provides Azure Cloud services within your data center. It provides consistent processes between on-site and the cloud, allowing developers to test locally and deploy to the cloud in exactly the same manner. Azure Stack Hub Demystified is a comprehensive guide to deploying, configuring, administering, and running Microsoft Azure Stack Hub efficiently. Firstly, you will learn how to deploy Azure Stack Hub within an organization. As you progress, you'll understand the different services provided by the platform. The book also focuses on the underlying architecture and connectivity options for the modern data center. Later, you will understand various services and their implementation, and learn key topics for the AZ-600 exam. By the end of this Azure book, you will have a thorough understanding of Azure Stack Hub and the services that are provided. This book provides the confidence and information you need to be able to pass the AZ-600 exam. What you will learnUnderstand the architecture of Azure Stack HubGet up to speed with the management and administration of Azure Stack Hub

HubExplore how to administer virtual networking within your Azure StackBecome well versed in using the Azure Stack Hub support model and updating Azure Stack HubUnderstand how licenses are managed in Azure Stack HubDiscover the tools that can be used to implement security within Azure Stack HubFocus on how DevOps practices can be incorporated with Azure Stack HubWho this book is for: This book is for the Microsoft Certified Solutions Associate (MCSA) Administrator and Azure Stack Hub Operator who provides or is looking to provide cloud services to end users or customers within their own data center, then this book is for you. This book is also for those who are preparing for Exam AZ-600: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub.

Prepare for Microsoft Exam MD-101—and help demonstrate your real-world mastery of skills and knowledge required to manage modern Windows 10 desktops. Designed for Windows administrators, this book focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Associate level. Focus on the expertise measured by these objectives: Deploy and update operating systems and profiles Manage and protect devices Manage apps and data This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assesses your ability to deploying, configuring, securing, managing, and monitoring devices and client applications in an enterprise environment About the Exam Exam MD-101 focuses on knowledge needed to plan and implement Windows 10 with dynamic deployment or Windows Autopilot; upgrade devices to Windows 10; manage updates and device authentication; plan and implement co-management; implement conditional access policies; configure device profiles; manage user profiles; manage Windows Defender; manage Intune device enrollment and inventory; monitor devices; deploy/update applications, and implement Mobile Device Management (MDM) and Mobile Application Management (MAM). About Microsoft Certification Passing this exam and Exam MD-100 Windows 10 fulfills your requirements for the Microsoft 365 Certified: Modern Desktop Administrator Associate certification, demonstrating your ability to install Windows 10 operating systems and deploy and manage modern desktops and devices in an enterprise environment. See full details at: microsoft.com/learn

Windows PowerShell Scripting 101

Windows Server 2012: Up and Running

Microsoft Exchange Server 2007: Tony Redmond's Guide to Successful Implementation

The Pester Book

The Complete Guide to Scripting Microsoft's New Command Shell

Exam Ref MD-101 Managing Modern Desktops

Prepare for the newest versions of Microsoft Exam 70-533—and help demonstrate your real-world mastery of implementing Microsoft Azure Infrastructure as a Service (IaaS). Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Design and implement Azure App Service Apps Create and manage compute resources, and implement containers Design and implement a storage strategy, including storage encryption Implement virtual networks, including new techniques for hybrid connections Design and deploy ARM Templates Manage Azure security and Recovery Services Manage Azure operations, including automation and data analysis Manage identities with Azure AD Connect Health, Azure AD Domain Services, and Azure AD single sign on This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you are an IT professional with experience implementing and monitoring cloud and hybrid solutions and/or supporting application lifecycle management This book covers the 533 objectives as of December 2017. If there are updates for this book, you will find them at <https://aka.ms/examref5332E/errata>. About the Exam Exam 70-533 focuses on skills and knowledge for provisioning and managing services in Microsoft Azure, including: implementing infrastructure components such as virtual networks, virtual machines, containers, web and mobile apps, and storage; planning and managing Azure AD, and configuring Azure AD integration with on-premises Active Directory domains. About Microsoft Certification Passing this exam helps qualify you for MCSA: Cloud Platform Microsoft Certified Solutions Associate certification, demonstrating your expertise in applying Microsoft cloud technologies to reduce costs and deliver value. To earn this certification, you must also pass any one of the following exams: 70-532 Developing Microsoft Azure Solutions, or 70-534 Architecting Microsoft Azure Solutions, or 70-535, Architecting Microsoft Azure Solutions, or 70-537: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack.

Programming Microsoft Azure Service Fabric

Windows PowerShell Step by Step

Azure PowerShell Quick Start Guide

Learning Microsoft Azure Storage

Beginners Essential: Powershell Learning For Beginners

Using Visio with SharePoint 2013 and Office 365