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Learning PowerShell DSC - Second Edition Learning PowerShell DSC Pro PowerShell Desired State Configuration Learning PowerShell DSC Windows PowerShell Desired State Configuration Revealed DevOps for VMware Administrators Getting Started with Nano Server Azure Automation Using the ARM Model Microsoft Hybrid Cloud Unleashed with Azure Stack and Azure Exam Ref 70-533 Implementing Microsoft Azure Infrastructure Solutions Continuous Delivery with Visual Studio ALM 2015 Learn Azure in a Month of Lunches, Second Edition Learning Hyper-V Exam 70-414 Implementing an Advanced Server Infrastructure Exam Ref 70-532 Developing Microsoft Azure Solutions Exam Ref AZ-103 Microsoft Azure Administrator Hands-On Linux Administration on Azure Implementing Azure DevOps Solutions Mastering Windows Server 2019 Microsoft System Center Operations Manager Field Experience Architecting Microsoft Azure Solutions – Exam Guide 70-535 Mastering VMware vSphere 6 Building Hybrid Clouds with Azure Stack Windows Server 2016 Inside Out (includes Current Book Service) Mastering Windows Server 2016 Introducing Windows Server 2012 R2 Designing and Implementing Microsoft DevOps Solutions AZ-400 Exam Guide Learn Powershell Core 6.0 Mastering Microsoft Azure Infrastructure Services Microsoft Operations Management Suite Cookbook Azure Resource Manager Templates Quick Start Guide Hands-On Linux Administration on Azure Master Powershell Tricks Getting Started with PowerShell Microsoft IIS 10.0 Cookbook Software Technologies PowerShell DSC Modernizing the Datacenter with Windows Server and Hybrid Cloud MCSA Windows Server 2016 Complete Study Guide Windows Server 2019 Automation with PowerShell Cookbook

Hands-On Linux Administration on Azure Mar 01 2020 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 FeaturesDeploy and manage virtual machines in the Azure environmentExplore open source tools to integrate automation and orchestrationImplement Linux features to create and manage containersBook 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 learnGrasp the fundamentals of virtualization and cloud computingUnderstand file hierarchy and mount new filesystemsMaintain the life cycle of your application in Azure Kubernetes ServiceManage resources with the Azure CLI and PowerShellManage users, groups, and filesystem permissionsUse Azure Resource Manager to redeploy virtual machinesImplement configuration management to configure a VM correctlyBuild a container using DockerWho 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.

 Learning PowerShell DSC - Second Edition Nov 01 2022 A learning guide to get you started with PowerShell DSC.About This Book* Create flexible and maintainable deployments using DSC configuration scripts that stand the test of time.* Explore the core architecture, concepts, and practices in depth.* Learning PowerShell DSC is a step-by-step guide that shows you how to start using and taking advantage of PowerShell DSC along with configuring and deploying applications.Who This Book Is ForIf you are a system administrator, developer, or engineer and are responsible for configuration management and automation, then this book is for you. IT professionals who wish to learn PowerShell Desired State Configuration for the efficient management, configuration, and deployment of systems will also find this book useful. What You Will Learn* Explore PowerShell Desired State Configuration and activities around it, including the need for configuration management and abstraction.* Create reusable DSC configurations and debug/troubleshoot configuration files.* Learn about the PowerShell DSC architecture with the help of push-and-pull management and workflows.* Define DSC configuration scripts and data files and push DSC configuration files remotely and locally.* Validate DSC Pull Server install and register target nodes with a DSC Pull Server.* Learn about DSC Cross Platform and install PowerShell on Linux and macOS along with real-life DSC uses and different types of deployment.In DetailThe main goal of this book is to teach you to configure, deploy, and manage your system using the new features of PowerShell v5/v6 DSC.This book begins with the basics of PowerShell Desired State Configuration, covering its architecture and components. It familiarizes you with the set of Windows PowerShell language extensions and new Windows PowerShell commands that make up DSC. Then it helps you create DSC custom resources and work with DSC configurations with the help of practical examples. Finally, it describes how to deploy configuration data using PowerShell DSC. Throughout this book, we will be focusing on concepts such as building configurations with parameters, the local configuration manager, and testing and restoring configurations using PowerShell DSC.By the end of the book, you will be able to deploy a real-world application end-to-end and will be familiar enough with the powerful Desired State Configuration platform to achieve continuous delivery and efficiently and easily manage and deploy data for systems.Style and approachThe purpose of this book is to introduce readers to the powerful PowerShell Desired State Configuration platform to achieve continuous delivery, efficient management, and the easy deployment of data for systems.

 Designing and Implementing Microsoft DevOps Solutions AZ-400 Exam Guide Aug 06 2020 Written by Microsoft MVPs and Azure experts, this comprehensive guide comes with self-study exercises to help you understand the concepts better and move closer to becoming a skilled Azure DevOps engineer Key Features Explore a step-by-step approach to designing and creating a successful DevOps environment Understand how to implement continuous integration and continuous deployment pipelines on Azure Integrate and implement security, compliance, containers, and databases in your DevOps strategies Book Description The AZ-400 Designing and Implementing Microsoft DevOps Solutions certification helps DevOps engineers and administrators get to grips with practices such as continuous integration and continuous delivery (CI/CD), containerization, and zero downtime deployments using Azure DevOps Services. This new edition is updated with advanced topics such as site reliability engineering (SRE), continuous improvement, and planning your cloud transformation journey. The book begins with the basics of CI/CD and automated deployments, and then moves ahead to show you how to apply configuration management and Infrastructure as Code (IaC) along with managing databases in DevOps

scenarios. As you make progress, you'll explore fitting security and compliance with DevOps and find out how to instrument applications and gather metrics to understand application usage and user behavior. This book will also help you implement a container build strategy and manage Azure Kubernetes Services. Lastly, you'll discover quick tips and tricks to confidently apply effective DevOps practices and learn to create your own Azure DevOps organization. By the end of this DevOps book, you'll have gained the knowledge needed to ensure seamless application deployments and business continuity. What you will learn Get acquainted with Azure DevOps Services and DevOps practices Discover how to efficiently implement CI/CD processes Build and deploy a CI/CD pipeline with automated testing on Azure Integrate security and compliance in pipelines Understand and implement Azure Container Services Effectively close the loop from production back to development Apply continuous improvement strategies to deliver innovation at scale Who this book is for The book is for anyone looking to prepare for the AZ-400 certification exam. Software developers, application developers, and IT professionals who want to implement DevOps practices for the Azure cloud will also find this book helpful. Familiarity with Azure DevOps basics, software development, and development practices is recommended but not necessary.

 Microsoft System Center Operations Manager Field Experience Mar 13 2021 Part of a series of specialized guides on System Center, this book focuses on Microsoft System Center Operations Manager. For the seasoned professional, it covers the role of the Operations Manager product, the best practices for working with management packs, how to use the reporting feature to simplify managing the product, how to thoroughly troubleshoot, and how to use and install Operations Manager in the Microsoft Azure Public Cloud environment.

 Windows Server 2019 Automation with PowerShell Cookbook Jun 23 2019 Automate Windows server tasks with the powerful features of the PowerShell Language Key Features Leverage PowerShell to automate complex Windows server tasks Master new features such as DevOps, and containers, and speed up their performance using PowerShell Improve PowerShell's usability, and control and manage Windows-based environments by working through exciting recipes Book Description Windows Server 2019 represents the latest version of Microsoft's flagship server operating system. It also comes with PowerShell Version 5.1 and has a number of additional features that IT pros find useful. The book helps the reader learn how to use PowerShell and manage core roles, features, and services of Windows Server 2019. You will begin with creating a PowerShell Administrative Environment that has updated versions of PowerShell and the Windows Management Framework, updated versions of the .NET Framework, and third-party modules. Next, you will learn to use PowerShell to set up and configure Windows Server 2019 networking and also managing objects in the AD environment. You will also learn to set up a host to utilize containers and how to deploy containers. You will also be implementing different mechanisms for achieving desired state configuration along with getting well versed with Azure infrastructure and how to setup Virtual Machines, web sites, and shared files on Azure. Finally, you will be using some powerful tools you can use to diagnose and resolve issues with Windows Server 2019. By the end of the book, you will learn a lot of trips and tricks to automate your windows environment with PowerShell What you will learn Perform key admin tasks on Windows Server 2019 Employing best practices for writing PowerShell scripts and configuring Windows Server 2019 Use the .NET Framework to achieve administrative scripting Set up VMs, websites, and shared files on Azure Report system performance using built-in cmdlets and WMI to obtain single measurements Know the tools you can use to diagnose and resolve issues with Windows Server Who this book is for If you are a systems administrator, engineer, or an architect

working with Windows Server 2016 interested in upgrading to Windows Server 2019 and automating tasks with PowerShell, then this book is for you. A basic knowledge of PowerShell is expected.

PowerShell DSC Sep 26 2019 Ce livre sur Microsoft PowerShell DSC (Desired State Configuration), en version 5.1 au moment de l'écriture, s'adresse aux ingénieurs système désireux d'accélérer, de simplifier et d'homogénéiser la configuration de leurs environnements de production. Des connaissances basiques sur les environnements Windows Server, PowerShell et Hyper-V sont utiles pour bien appréhender PowerShell DSC. Tout au long du livre, l'auteur accompagne le lecteur dans un mode pas à pas et chaque exemple concret est mis en oeuvre dans une série d'exercices pratiques pour apprendre à réaliser les opérations des plus simples aux plus complexes. Dans les premiers chapitres le lecteur crée l'environnement de test et met en place la fonctionnalité DSC sur les machines de cet environnement. Avec les chapitres qui suivent, le lecteur crée ses premières configurations et apprend à les déployer sur les serveurs distants. Ensuite, chaque ressource DSC est étudiée et mise en oeuvre et le module de commandes DSC est passé en revue. L'auteur traite ensuite la mise en place de serveurs collecteurs permettant aux machines de venir chercher une configuration dédiée, le renforcement de la sécurité des configurations à l'aide des certificats, l'utilisation de DSC sur des machines Linux, les audits et rapports DSC ainsi que le dépannage des configurations. A la fin de cette lecture, le lecteur disposera de connaissances et de compétences suffisantes pour mettre en oeuvre PowerShell DSC. Des éléments complémentaires sont en téléchargement sur le site www.editions-eni.fr. Les chapitres du livre : Avant-propos - Plateforme de tests Windows - Présentation DSC - Méthode Push - Comprendre les ressources - Utiliser les fonctions et commandes du module DSC - Déployer et utiliser DSC - Utiliser DSC, méthode avancée - DSC pour Linux - Audits et rapports DSC - Troubleshooting DSC - Pour aller plus loin

Master Powershell Tricks Jan 29 2020

Continuous Delivery with Visual Studio ALM 2015 Dec 22 2021 This book is the authoritative source on implementing Continuous Delivery practices using Microsoft's Visual Studio and TFS 2015. Microsoft MVP authors Mathias Olausson and Jakob Ehn translate the theory behind this methodology and show step by step how to implement Continuous Delivery in a real world environment. Building good software is challenging. Building high-quality software on a tight schedule can be close to impossible. Continuous Delivery is an agile and iterative technique that enables developers to deliver solid, working software in every iteration. Continuous delivery practices help IT organizations reduce risk and potentially become as nimble, agile, and innovative as startups. In this book, you'll learn: What Continuous Delivery is and how to use it to create better software more efficiently using Visual Studio 2015 How to use Team Foundation Server 2015 and Visual Studio Online to plan, design, and implement powerful and reliable deployment pipelines Detailed step-by-step instructions for implementing Continuous Delivery on a real project

Getting Started with PowerShell Dec 30 2019 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.

 Azure Automation Using the ARM Model Mar 25 2022 Focus exclusively on the Azure Resource Manager (ARM) deployment model for Azure automation and gain in-depth knowledge of topics such as runbook authoring, different types of automation runbooks, and hybrid cloud automation. This book covers practical approaches to creating runbooks for multiple use cases, including operational tasks such as VM management and integration of Azure automation with infrastructure monitoring solutions, such as Operations Management Suite (OMS). Along the way you'll see how to use PowerShell in Azure automation and cover essentials including Azure automation security, source control integration, and runbook output streams. Finally, you learn about integrating Azure automation with Desired State Configuration (DSC) to include various cloud, on-premise, and hybrid scenarios. What You Will Learn · Work with the building blocks of Azure automation · Create different types of runbook · Master hybrid cloud automation with ARM · Implement cloud automation use cases with practical examples Who This Book Is For Infrastructure and cloud architects, cloud support engineers, and system administrators.

 Learn Powershell Core 6.0 Jul 05 2020 Enhance your skills in expert module development, deployment, security, DevOps, and cloud Key Features A step-by-step guide to get you started with PowerShell Core 6.0 Harness the capabilities of PowerShell Core 6.0 to perform simple to complex administration tasks Learn core administrative concepts such as scripting, pipelines, and DSC Book Description Beginning with an overview of the different versions of PowerShell, Learn PowerShell Core 6.0 introduces you to VSCode and then dives into helping you understand the basic techniques in PowerShell scripting. You will cover advanced coding techniques, learn how to write reusable code as well as store and load data with PowerShell. This book will help you understand PowerShell security and Just Enough Administration, enabling you to create your own PowerShell repository. The

last set of chapters will guide you in setting up, configuring, and working with Release Pipelines in VSCode and VSTS, and help you understand PowerShell DSC. In addition to this, you will learn how to use PowerShell with Windows, Azure, Microsoft Online Services, SCCM, and SQL Server. The final chapter will provide you with some use cases and pro tips. By the end of this book, you will be able to create professional reusable code using security insight and knowledge of working with PowerShell Core 6.0 and its most important capabilities. What you will learn Get to grips with Powershell Core 6.0 Explore basic and advanced PowerShell scripting techniques Get to grips with Windows PowerShell Security Work with centralization and DevOps with PowerShell Implement PowerShell in your organization through real-life examples Learn to create GUIs and use DSC in production Who this book is for If you are a Windows administrator or a DevOps user who wants to leverage PowerShell to automate simple to complex tasks, then this book is for you. Whether you know nothing about PowerShell or just enough to get by, this guide will give you what you need to go to take your scripting to the next level. You'll also find this book useful if you're a PowerShell expert looking to expand your knowledge in areas such as PowerShell Security and DevOps.

 Windows Server 2016 Inside Out (includes Current Book Service) Nov 08 2020 Conquer Windows Server 2016—from the inside out! Dive into Windows Server 2016—and really put your Windows Server expertise to work. Focusing on Windows Server 2016's most powerful and innovative features, this supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds—all you need to plan, implement, or manage Windows Server in enterprise, data center, cloud, and hybrid environments. Fully reflecting Windows Server new capabilities for the cloud-first era, Orin covers everything from Nano Server to Windows Server and Hyper-V Containers. You'll discover how experts tackle today's essential tasks—and challenge yourself to new levels of mastery. • Optimize the full Windows Server 2016 lifecycle, from planning and configuration through rollout and administration • Ensure fast, reliable upgrades and migrations • Seamlessly deliver core DNS, DHCP, file, print, storage, and Internet services • Use IPAM to centrally manage all enterprise DNS and DHCP infrastructure • Gain dramatic storage utilization improvements with built-in deduplication and storage replica • Build flexible cloud and hybrid environments with Windows Containers and Shielded VMs • Seamlessly integrate Azure IaaS services with Windows Server 2016 • Slash resource usage and improve availability with tiny Nano Server installations • Improve configuration management with Desired State Configuration and Chef • Deliver Active Directory identity, certificate, federation, and rights management services • Protect servers, clients, assets, and users with advanced Windows Server 2016 security features including Just Enough Administration For Experienced Windows Server Users and IT Professionals • Your role: Experienced intermediate-to-advanced level Windows Server user or IT professional • Prerequisites: Basic understanding of Windows Server procedures, techniques, and navigation

 Pro PowerShell Desired State Configuration Aug 30 2022 Use Windows PowerShell Desired State Configuration (DSC) to configure your infrastructure on-premises and in the cloud. In an environment where changes and deployments are happening all the time, DSC makes the necessary adjustments to the system so you don't have to. Pro PowerShell Desired State Configuration shows you how. PowerShell Desired State Configuration (DSC) is a powerful configuration management platform that makes it easier than ever to perform configuration management of your infrastructure, whether on-premises or in the cloud. With Pro PowerShell Desired State Configuration, Ravikanth Chaganti revises and significantly expands his previous edition, bringing you a complete in-depth reference for applying this evolving technology in your day-to-day work. What's new in this edition? Get up-to-date, in-depth guidance on DSC in the data center Understand the central role that

DSC plays in DevOps today Integrate DSC into build and release management tools Learn to think and act like a developer when automating your configuration management, creating a testable, robust process that you can use again and again Find out why and how DSC has an important role to play in public and private cloud deployments Apply DSC in the cloud with Microsoft Azure or Amazon Web Services or Google Cloud Platform Who This Book Is For IT administrators, developers and DevOps engineers working in Windows-based data center environments. With a little prior PowerShell scripting experience, this book can be used as an in-depth reference to creating, customizing, and extending DSC in Windows. IT administrators with limited scripting experience will also find this book a useful overview of what DSC offers and how to use DSC resources to automate configuration management and deployment.

Mastering VMware vSphere 6 Jan 11 2021 Master your virtual environment with the ultimate vSphere guide Mastering VMware vSphere 6 is the fully updated edition of the bestselling guide to VMware's virtualization solution. With comprehensive coverage of this industry-leading toolset, this book acts as an informative guide and valuable reference. Step-by-step instruction walks you through installation, configuration, operation, security processes, and much more as you conquer the management and automation of your virtual environment. Written by certified VMware vExperts, this indispensable guide provides hands-on instruction and detailed conceptual explanations, anchored by practical applications and real-world examples. This book is the ultimate guide to vSphere, helping administrators master their virtual environment. Learn to: Install, configure, and manage the vCenter Server components Leverage the Support Tools to provide maintenance and updates Create and configure virtual networks, storage devices, and virtual machines Implement the latest features to ensure compatibility and flexibility Manage resource allocation and utilization to meet application needs Monitor infrastructure performance and availability Automate and orchestrate routine administrative tasks Mastering VMware vSphere 6 is what you need to stay up-to-date on VMware's industry-leading software for the virtualized datacenter.

Exam 70-414 Implementing an Advanced Server Infrastructure Sep 18 2021 This Microsoft Official Academic Course (MOAC) IT Professional curriculum prepares certification students for success every step of the way. This 70-414 Implementing an Advanced Server Infrastructure exam course is the second of a series of two exams Microsoft Certified Solutions Associates (MCSE) candidates are required to pass to gain the MCSE: Windows Server 2012 and Windows Server 2012 R2 certification. These MCSE exams test the skills and knowledge necessary to design, implement, and maintain a Windows Server 2012 infrastructure in an enterprise scaled, highly virtualized environment. Passing these exams confirms students' ability to plan, configure, and implement the Windows Server 2012 services, such as server deployment, server virtualization, and network access and infrastructure. This complete ready-to-teach MOAC program is mapped to all of the exam objectives.

MCSA Windows Server 2016 Complete Study Guide Jul 25 2019 Over 1,000 pages of comprehensive exam prep for the entire MCSA Windows Server 2016 certification process MCSA Windows Server 2016 Complete Study Guide is your ultimate companion on the journey to earning the MCSA Windows Server 2016 certification. Covering required Exams 70-740, 70-741, and 70-742, plus preparing you to take the composite upgrade Exam 70-743 (not covered separately in this book), this Study Guide walks you through 100 percent of all exam objectives to help you achieve complete readiness. Hands-on exercises strengthen your practical skills, and real-world scenarios help you understand how these skills are used on the job. Over 500 practice questions allow you to test your understanding along the way, and the online test bank gives you access to electronic

flashcards, practice exams, and over an hour of expert video demonstrations. From basic networking concepts and services to Active Directory and Hyper-V, this guide provides full coverage of critical MCSA concepts and skills. This new edition has been updated for the latest MCSA Windows Server 2016 exam releases, featuring coverage of all the objective domains. This value-priced guide is three books in one, giving you the most comprehensive exam prep experience for all required MCSA exams. Whether you're starting from the beginning, or upgrading from the MCSA Windows Server 2012 R2 certification, arm yourself with the ultimate tool for complete and comprehensive preparation. Study 100 percent of the objectives for all three MCSA exams, plus the upgrade exam Practice your skills using hands-on exercises and real-world scenarios Test your knowledge with over 500 challenging practice questions Access online study aids including flashcards, video demos, and more! The MCSA exams test your knowledge and skill in installation, configuration, deployment, and administration using a variety of networking tools. The scope is broad, but your complete understanding of the most up-to-date concepts and practices is critical to your success on the exam—and on the job. MCSA Windows Server 2016 Complete Study Guide covers everything you need to know, and gives you the tools to help you learn it.

 Introducing Windows Server 2012 R2 Sep 06 2020 NOTE: This title is also available as a free eBook on the Microsoft Download Center. It is offered for sale in print format as a convenience. Get a head start evaluating Windows Server 2012 R2 - with technical insights from a Microsoft MVP and members of the Windows Server product team. Based on final Windows Server 2012 R2 release-to-manufacturing (RTM) software, this guide introduces new features and capabilities, with scenario-based advice on how the platform can meet the needs of your business. Get the high-level overview you need to begin preparing your deployment now. Coverage includes: Server virtualization and cloud solutions Availability and scalability Provisioning and storage management Security features, access, and data protection Infrastructure options Server management and automation

 Microsoft Hybrid Cloud Unleashed with Azure Stack and Azure Feb 21 2022 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

Software Technologies Oct 27 2019 This book constitutes the thoroughly refereed post-conference proceedings of the 13th International Joint Conference on Software Technologies, ICSOFT 2018, held in Porto, Portugal, in July 2018. The 18 revised full papers were carefully reviewed and selected from 117 submissions. The topics covered in the papers include: business process modelling, IT service management, interoperability and service-oriented architecture, project management software, scheduling and estimating, software metrics, requirements elicitation and specification, software and systems integration, etc.

Learning Hyper-V Oct 20 2021 This book focuses on readers starting their journey with Hyper-V, and assumes they have minimal or no knowledge of virtualization.

Getting Started with Nano Server Apr 25 2022 Remain highly competitive in the server and VM market by gaining the practical skills needed to operate Nano Server About This Book The days of the local server are numbered, and this book will make you an ace by giving you the skills needed to administer Nano Server and survive in the brave new server world Learn to quickly automate multiple VMs and support Hyper-V clusters, all through small footprints from a single host Apply up-to-date, real-world examples presented in this book and improve the scalability and efficiency of large-scale VM deployments Who This Book Is For This book opens up new potential for both developers and IT pros alike. The book is primarily for Server administrators and IT Professionals who would like to deploy and administer Nano Server within their organizations, and for developers who are trying to make maximal use of Server Containers and Hyper-V Containers with Nano Servers. What You Will Learn Understand Nano Server Deploy Nano Server Deploy Hyper-V Clusters on Nano Server Deploy Nano Server with SCVMM Manage Nano Server using PowerShell and Remote Server Management Tools Manage Nano Server with third-party tools Run Server Containers and Hyper-V Containers on Nano Server Troubleshoot Nano Server Validate developed applications that run on Nano Server In Detail Nano Server allows developers and operations teams to work closely together and use containers that package applications so that the entire platform works as one. The aim of Nano Server is to help applications run the way they are intended to. It can be used to run and deploy infrastructures (acting as a compute host, storage host, container, or VM guest operating system) without consuming significant resources. Although Nano Server isn't intended to replace Server 2016 or 2012 R2, it will be an attractive choice for developers and IT teams. Want to improve your ability to deploy a new VM and install and deploy container apps within minutes? You have come to the right place! The objective of this book is to get you started with Nano Server successfully. The journey is quite exciting, since we are introducing you to a cutting-edge technology that will revolutionize today's datacenters. We'll cover everything from the basic to advanced topics. You'll discover a lot of added value from using Nano Server, such as hundreds of VM types on a single host through a small footprint, which could be a big plus for you and your company. After reading this book, you will have the necessary skills to start your journey effectively using Nano Server. Style and approach Gauge all the information needed to get up-and-running with the latest Nano Server built by Microsoft using this easy to follow step-by-step guide.

Microsoft Operations Management Suite Cookbook May 03 2020 Manage on-premises and cloud IT assets from one console Key Features Empower yourself with practical recipes to collect and analyze operational insights on Windows and Linux servers in your on premises datacenters and in any public cloud environments such as Azure and AWS. Build capabilities through practical tasks and techniques to collect and analyze machine data Address business challenges and discover means to accommodate workloads and

instances in a low cost manner Book Description Microsoft Operations Management Suite Cookbook begins with an overview of how to hit the ground running with OMS insights and analytics. Next, you will learn to search and analyze data to retrieve actionable insights, review alert generation from the analyzed data, and use basic and advanced Log search queries in Azure Log Analytics. Following this, you will explore some other management solutions that provide functionality related to workload assessment, application dependency mapping, automation and configuration management, and security and compliance. You will also become well versed with the data protection and recovery functionalities of OMS Protection and Recovery, and learn how to use Azure Automation components and features in OMS. Finally you will learn how to evaluate key considerations for using the Security and Audit solution, and working with Security and Compliance in OMS. By the end of the book, you will be able to configure and utilize solution offerings in OMS, understand OMS workflows, how to unlock insights, integrate capabilities into new or existing workflows, manage configurations, and automate tasks and processes. What you will learn Understand the important architectural considerations and strategies for OMS Use advanced search query commands and strategies to derive insights from indexed data Make use of alerting in OMS such as alert actions, and available options for the entire lifecycle of the alert Discover some practical tips for monitoring Azure container service containers and clusters using OMS Review and use the backup options available through the Azure backup service, as well as data recovery options available through Azure Site Recovery (ASR) Understand how to advance important DevOps concepts within your IT organization Learn how to manage configurations and automate process Who this book is for This book is written for the IT professional and general reader who is interested in technology themes such as DevOps, Big Data Analytics, and digital transformation concepts. Azure and other cloud platform administrators, cloud professionals, and technology analysts who would like to solve everyday problems quickly and efficiently with hybrid management tools available in the Microsoft product ecosystem will derive much value from this book. Prior experience with OMS 2012 would be helpful.

 Modernizing the Datacenter with Windows Server and Hybrid Cloud Aug 25 2019 Transform your datacenter for breakthrough flexibility, agility, and scalability! Using public, private, and hybrid cloud services, you can transform your datacenter to serve fast-changing workloads, process and analyze enormous amounts of data, and achieve unprecedented flexibility and value. In this guide, two world-renowned experts in Microsoft datacenter technology show how to effectively leverage current legacy systems as you incorporate your optimal mix of cloud services. Drawing on extensive experience implementing Microsoft cloud solutions, they walk you step-by-step through your entire transition: strategy, deployment, security, identity protection, management, PowerShell automation, and more. Two concluding chapters offer indispensable advice for maximizing datacenter efficiency and supporting future innovation. Two leading enterprise cloud and Windows Server experts show how to: Move from legacy IT models to an agile service structure Implement managed self-service, iteration-based software updates, immutable infrastructure, and other elements of a modern IT environment Plan and smoothly integrate on-premises, Azure, Azure Stack, and Hybrid Cloud components Fortify IT security now and in the future Safeguard identities via new models and tools, including Remote Credential Guard Protect the OS, on premises and in the cloud Optimize datacenter efficiency via enterprise-class virtualization and other advanced technologies Promote innovation via microservices, DevOps, and NanoServer containerization

 Azure Resource Manager Templates Quick Start Guide Apr 01 2020 Azure Resource Manager (ARM) templates are declarations of Azure resources in the JSON format to provision and maintain them using infrastructure as code. This book gives practical

solutions and examples for provisioning and managing various Azure services using ARM templates.

Exam Ref AZ-103 Microsoft Azure Administrator Jul 17 2021 Prepare for Microsoft Exam AZ-103—and help demonstrate your real-world mastery of deploying and managing infrastructure in Microsoft Azure cloud environments. Designed for experienced cloud professionals ready to advance their status, Exam Ref 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: Manage Azure subscriptions and resources Implement and manage storage Deploy and manage virtual machines (VMs) Configure and manage virtual networks Manage identities This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you are an experienced Azure administrator who understands and manages diverse storage, security, networking and/or compute cloud services About the Exam Exam AZ-103 focuses on skills and knowledge needed to manage Azure subscriptions; analyze resource utilization and consumption; manage resource groups; establish storage accounts; import/export data; configure Azure files; implement backup; create, configure, and automate VM deployment; manage VMs and VM backups; implement, manage, and connect virtual networks; configure name resolution; create and configure Network Security Groups; manage Azure AD and its objects; and implement and manage hybrid identities. About Microsoft Certification Passing exam AZ-103 earns your Microsoft Certified: Azure Administrator Associate certification, demonstrating your skills in implementing, monitoring, and maintaining Microsoft Azure solutions, including major services related to compute, storage, network, and security.

Windows PowerShell Desired State Configuration Revealed Jun 27 2022 Desired State Configuration (DSC) is a powerful configuration management platform that makes it easier than ever to perform cross-platform configuration management of your infrastructure, whether on-premise or in the cloud. DSC provides the management platform and Application Programming Interface (API) that can be used with any programming language. Windows PowerShell Desired State Configuration Revealed will take you through this new technology from start to finish and demonstrates the DSC interfaces through Windows PowerShell. DSC allows you to manage target devices by simply declaring what state you want them to be in, using new declarative language extensions, rather than writing detailed instructions to get them into that state. This makes continuous delivery in Windows easier than ever before. In an environment where changes and deployments are happening all the time, DSC makes the necessary adjustments to the system so you don't have to. Windows PowerShell Desired State Configuration Revealed starts with an overview of the configuration management features in Windows, followed by a discussion of the architecture of DSC and its components. You'll then explore DSC's built-in features and resources, followed by some of the different methods provided for delivering configuration information within your ecosystem, and learn about configuration monitoring and reporting. In the latter part of the book, you'll find out how to get more power out of DSC by writing your own custom DSC resources, including a range of useful examples, and the book concludes with vital information on deploying and troubleshooting DSC in a production environment, along with some expert tips and tricks you might find useful along the way. Windows PowerShell Desired State Configuration Revealed is your one-stop guide to this new technology and how it can change your working life for the better.

Learning PowerShell DSC Sep 30 2022 Get started with the fundamentals of PowerShell DSC and utilize its power to automate deployment and configuration of your servers About This Book Create flexible and maintainable deployments using DSC configuration scripts that stand the test of time Explore the in depth details of the core architecture, concepts,

and practices used by PowerShell DSC A step-by-step guide that shows you how to start using and taking advantage of PowerShell DSC Who This Book Is For This book is intended for system administrators, developers, or engineers who are responsible for configuration management and automation and wish to learn PowerShell Desired State Configuration for efficient management, configuration and deployment of systems and applications. What You Will Learn Understand configuration management and why you need it Craft flexible, reusable, and maintainable configuration scripts for thousands of servers Create custom DSC resources to manage any application or server setting Apply configuration data to deploy applications to different environments Utilize DSC push deployments to test your configuration scripts and custom DSC resources Install, configure and use DSC pull servers Run a Windows MSI package Deploy a website In Detail Windows PowerShell is a task-based command-line shell and scripting language designed especially for system administration. PowerShell DSC is a new management platform that enables you to deploy and manage configuration data for software services and manage the environment in which these services run. This book begins with an overview of the basics of PowerShell DSC by covering the architecture and components of the Desired Sate Configuration. It will then familiarize you with the set of PowerShell language extensions and new PowerShell commands. It will help you understand and create DSC configurations with the help of practical examples, and to create DSC custom resources for your custom applications. Finally, you will learn to deploy a real world application using PowerShell DSC. By the end of the book, you will have better knowledge about the powerful Desired State Configuration platform, which helps you to achieve continuous delivery, and efficient management and easy deployment of data for systems. Style and approach This book is an in-depth guide to using PowerShell DSC, full of real-world experiences and best practices using PowerShell DSC. The topics are explained and build on one another other to provide a holistic learning experience. At the end, all the features learned will be used to create a real world application deployment using DSC.

 Mastering Microsoft Azure Infrastructure Services Jun 03 2020 Understand, create, deploy, and maintain a public cloud using Microsoft Azure Mastering Microsoft Azure Infrastructure Services guides you through the process of creating and managing a public cloud and virtual network using Microsoft Azure. With step-by-step instruction and clear explanation, this book equips you with the skills required to provide services both on-premises and off-premises through full virtualization, providing a deeper understanding of Azure's capabilities as an infrastructure service. Each chapter includes online videos that visualize and enhance the concepts presented in the book, and access to a Windows app that provides instant Azure updates and demonstrates the process of going from on-premises to public cloud via Azure. Coverage includes storage customization, connectivity, virtual networks, backing up, hybrid environments, System Center management, and more, giving you everything you need to understand, evaluate, deploy, and maintain environments that utilize Microsoft Azure. Understand cost, options, and applications of Infrastructure as a Service (IaaS) Enable on- and off-premises connectivity to Azure Customize Azure templates and management processes Exploit key technologies and embrace the hybrid environment Mastering Microsoft Azure Infrastructure Services is your total solution.

 DevOps for VMware Administrators May 27 2022 DevOps for VMware® Administrators is the first book focused on using DevOps tools and practices with VMware technologies. The authors introduce high-value tools from third parties and VMware itself, and guide you through using them to improve the performance of all your virtualized systems and applications. You'll walk through automating and optimizing configuration management, provisioning, log management, continuous integration, and more. The authors also offer

step-by-step coverage of deploying and managing applications at scale with Docker containers and Google Kubernetes. They conclude with an up-to-the-minute discussion of VMware's newest DevOps initiatives, including VMware vRealize Automation and VMware vRealize Code Stream. Coverage includes • Understanding the challenges that DevOps tools and practices can help VMware administrators to solve • Using Vagrant to quickly deploy Dev and Test environments that match production system specifications • Writing Chef "recipes" that streamline server configuration and maintenance • Simplifying Unix/Linux configuration management and orchestration with Ansible • Implementing Docker containers for faster and easier application management • Automating provisioning across the full lifecycle with Razor • Integrating Microsoft PowerShell Desired State Configuration (DSC) and VMware PowerCLI to automate key Windows Server and vSphere VM admin tasks • Using Puppet to automate infrastructure provisioning, configuration, orchestration, and reporting • Supercharging log management with ELK (Elasticsearch, Logstash, Kibana) • Supporting DevOps source code management with Git and continuous integration practices with Jenkins • Achieving continuous integration, delivery, and deployment with VMware's vRealize Code Stream

 Mastering Windows Server 2016 Oct 08 2020 A comprehensive and practical guide to Windows Server 2016 About This Book In-depth coverage of new features of Windows Server 2016 Gain the necessary skills and knowledge to design and implement Microsoft Server 2016 in enterprise environment Know how you can support your medium to large enterprise and leverage your experience in administering Microsoft Server 2016, A practical guide to administering Windows server 2016 Who This Book Is For The book is targeted at System Administrators and IT professionals who would like to design and deploy Windows Server 2016 (physical and logical) Enterprise infrastructure. Previous experience of Windows Server operating systems and familiarity with networking concepts is assumed. System administrators who are upgrading or migrating to Windows Server 2016 would also find this book useful. What You Will Learn Familiarize yourself with Windows Server 2016 ideology, the core of most datacenters running today New functions and benefits provided only by the new Windows Server 2016 Get comfortable working with Nanoserver Secure your network with new technologies in Server 2016 Harden your Windows Servers to help keep those bad guys out! Using new built-in integration for Docker with this latest release of Windows Server 2016 Virtualize your datacenter with Hyper-V In Detail Windows Server 2016 is the server operating system developed by Microsoft as part of the Windows NT family of operating systems, developed concurrently with Windows 10. With Windows Server 2016, Microsoft has gotten us thinking outside of the box for what it means to be a system administration, and comes with some interesting new capabilities. These are exciting times to be or to become a server administrator! This book covers all aspects of administration level tasks and activities required to gain expertise in Microsoft Windows Server 2016. You will begin by getting familiar and comfortable navigating around in the interface. Next, you will learn to install and manage Windows Server 2016 and discover some tips for adapting to the new server management ideology that is all about centralized monitoring and configuration. You will deep dive into core Microsoft infrastructure technologies that the majority of companies are going to run on Server 2016. Core technologies such as Active Directory, DNS, DHCP, Certificate Services, File Services, and more. We will talk about networking in this new operating system, giving you a networking toolset that is useful for everyday troubleshooting and maintenance. Also discussed is the idea of Software Defined Networking. You will later walk through different aspects of certificate administration in Windows Server 2016. Three important and crucial areas to cover in the Remote Access role -- DirectAccess, VPN, and the Web Application Proxy -- are also covered. You will then move into security functions

and benefits that are available in Windows Server 2016. Also covered is the brand new and all-important Nano Server! We will incorporate PowerShell as a central platform for performing many of the functions that are discussed in this book, including a chapter dedicated to the new PowerShell 5.0. Additionally, you will learn about the new built-in integration for Docker with this latest release of Windows Server 2016. The book ends with a discussion and information on virtualizing your datacenter with Hyper-V. By the end of this book, you will have all the ammunition required to start planning for and implementing Windows Server 2016. Style and approach This book offers a practical and wide coverage of all features of brand new Microsoft Server 2016 along with tips on daily administration tasks.

Hands-On Linux Administration on Azure Jun 15 2021 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.

Exam Ref 70-532 Developing Microsoft Azure Solutions Aug 18 2021 Prepare for Microsoft Exam 70-532--and help demonstrate your real-world mastery of Microsoft Azure solution development. Designed for experienced developers ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the Microsoft Specialist level. Focus on the expertise measured by these objectives: Design and implement Websites Create and manage Virtual Machines Design and implement Cloud Services Design and implement a storage strategy Manage application and network services This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Will be valuable for Microsoft Azure developers, solution architects, DevOps engineers, and QA engineers Assumes you have experience designing, programming, implementing, automating, and monitoring Microsoft

Azure solutions and that you are proficient with tools, techniques, and approaches for building scalable, resilient solutions Developing Microsoft Azure Solutions About the Exam Exam 70-532 focuses on the skills and knowledge needed to develop Microsoft Azure solutions that include websites, virtual machines, cloud services, storage, application services, and network services. About Microsoft Certification Passing this exam earns you a Microsoft Specialist certification in Microsoft Azure, demonstrating your expertise with the Microsoft Azure enterprise-grade cloud platform. You can earn this certification by passing Exam 70-532, Developing Microsoft Azure Solutions; or Exam 70-533, Implementing Microsoft Azure Infrastructure Solutions; or Exam 70-534, Architecting Microsoft Azure Solutions. See full details at: microsoft.com/learning

Learn Azure in a Month of Lunches, Second Edition Nov 20 2021 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

Learning PowerShell DSC Jul 29 2022 A learning guide to get you started with PowerShell DSC. About This Book Create flexible and maintainable deployments using DSC configuration scripts that stand the test of time. Explore the core architecture, concepts, and practices in depth. Learning PowerShell DSC is a step-by-step guide that shows you how to start using and taking advantage of PowerShell DSC along with configuring and deploying applications. Who This Book Is For If you are a system administrator, developer, or engineer and are responsible for configuration management and automation, then this

book is for you. IT professionals who wish to learn PowerShell Desired State Configuration for the efficient management, configuration, and deployment of systems will also find this book useful. What You Will Learn Explore PowerShell Desired State Configuration and activities around it, including the need for configuration management and abstraction. Create reusable DSC configurations and debug/ troubleshoot configuration files. Learn about the PowerShell DSC architecture with the help of push-and-pull management and workflows. Define DSC configuration scripts and data files and push DSC configuration files remotely and locally. Validate DSC Pull Server install and register target nodes with a DSC Pull Server. Learn about DSC Cross Platform and install PowerShell on Linux and macOS along with real-life DSC uses and different types of deployment. In Detail The main goal of this book is to teach you to configure, deploy, and manage your system using the new features of PowerShell v5/v6 DSC. This book begins with the basics of PowerShell Desired State Configuration, covering its architecture and components. It familiarizes you with the set of Windows PowerShell language extensions and new Windows PowerShell commands that make up DSC. Then it helps you create DSC custom resources and work with DSC configurations with the help of practical examples. Finally, it describes how to deploy configuration data using PowerShell DSC. Throughout this book, we will be focusing on concepts such as building configurations with parameters, the local configuration manager, and testing and restoring configurations using PowerShell DSC. By the end of the book, you will be able to deploy a real-world application end-to-end and will be familiar enough with the powerful Desired State Configuration platform to achieve continuous delivery and efficiently and easily manage and deploy data for systems. Style and approach The purpose of this book is to introduce readers to the powerful PowerShell Desired State Configuration platform to achieve continuous delivery, efficient management, and the easy deployment of data for systems.

 Microsoft IIS 10.0 Cookbook Nov 28 2019 Over 60 recipes to install, configure, and manage your IIS 10.0 About This Book Provide a secure, easy-to-manage extensible platform for hosting your websites Leverage IIS 10.0 in order to deploy web site in seconds Integrate Windows and Nano Server 2016 and automate it with PowerShell Recipes to Manage and monitor your IIS 10.0 Who This Book Is For If you are an administrator or web developer with a basic (or no) knowledge of Microsoft IIS and want to set up your own web server, then this is the book for you. What You Will Learn Integrate IIS 10.0 on Windows server 2016 Host multiple websites and Wildcard Host on IIS 10.0 Deploy and administrate IIS 10.0 on Nano Server. IIS administration with Powershell. Manage and troubleshoot IIS 10.0 In Detail This book will start with customizing your IIS 10 to various platforms/OS and tune it according to your business requirements. Moving on, we will focus on the functionalities of core fundamentals and perform practical scenarios in order to maximize the use of a reliable web server. Going further we will be covering topics like IIS 10 architecture, IIS modules,hosting web server platforms, virtual directories along with web site deployment, ports, enhanced security. We will also cover new features of IIS 10 like integration with Windows Server 2016 and Nano Server, HTTP/2, PowerShell 5 cmdlets etc . Towards the end, we will cover troubleshooting & diagnostic techniques of IIS 10. By the end of this book you will be well versed with maximizing the reliability of your webserver and will have immense knowledge in using IIS 10 effectively Style and approach A set of exciting recipes on using Microsoft IIS 10.0 effectively..

 Architecting Microsoft Azure Solutions – Exam Guide 70-535 Feb 09 2021 Get certified as an Azure architect by acing the 70-535 Architecting Microsoft Solutions (70-535) exam using this comprehensive guide with full coverage of the exam objectives Key Features Learn to successfully design and architect powerful solutions on the Azure Cloud platform Enhance your skills with mock tests and practice questions A detailed certification guide

that will help you ace the 70-535 exam with confidence Book Description Architecting Microsoft Azure Solutions: Exam Guide 70-535 will get Azure architects and developers up-to-date with the latest updates on Azure from an architecture and design perspective. The book includes all the topics that are still relevant from the previous 70-534 exam, and is updated with latest topics covered, including Artificial Intelligence, IoT, and architecture styles. This exam guide is divided into six parts, where the first part will give you a good understanding of how to design a compute infrastructure. It also dives into designing networking and data implementations. You will learn about designing solutions for Platform Service and operations. Next, you will be able to secure your resources and data, as well as design a mechanism for governance and policies. You will also understand the objective of designing solutions for Platform Services, by covering Artificial Intelligence, IoT, media services, and messaging solution concepts. Finally, you will cover the designing for operations objective. This objective covers application and platform monitoring, as well as designing alerting strategies and operations automation strategies. By the end of the book, you'll have met all of the exam objectives, and will have all the information you need to ace the 70-535 exam. You will also have become an expert in designing solutions on Microsoft Azure. What you will learn Use Azure Virtual Machines to design effective VM deployments Implement architecture styles, like serverless computing and microservices Secure your data using different security features and design effective security strategies Design Azure storage solutions using various storage features Create identity management solutions for your applications and resources Architect state-of-the-art solutions using Artificial Intelligence, IoT, and Azure Media Services Use different automation solutions that are incorporated in the Azure platform Who this book is for This book is for architects and experienced developers, who are gearing up for the 70-535 exam. Technical architects interested in learning more about designing Cloud solutions will also find this book useful.

Exam Ref 70-533 Implementing Microsoft Azure Infrastructure Solutions Jan 23 2022 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.

<u>Implementing Azure DevOps Solutions</u> May 15 2021 A comprehensive guide to becoming a skilled Azure DevOps engineer Key FeaturesExplore a step-by-step approach to designing and creating a successful DevOps environmentUnderstand how to implement continuous integration and continuous deployment pipelines on AzureIntegrate and implement security, compliance, containers, and databases in your DevOps strategiesBook Description Implementing Azure DevOps Solutions helps DevOps engineers and administrators to leverage Azure DevOps Services to master practices such as continuous integration and continuous delivery (CI/CD), containerization, and zero downtime deployments. This book starts with the basics of continuous integration, continuous delivery, and automated deployments. You will then learn how to apply configuration management and Infrastructure as Code (IaC) along with managing databases in DevOps scenarios. Next, you will delve into fitting security and compliance with DevOps. As you advance, you will explore how to instrument applications, and gather metrics to understand application usage and user behavior. The latter part of this book will help you implement a container build strategy and manage Azure Kubernetes Services. Lastly, you will understand how to create your own Azure DevOps organization, along with covering quick tips and tricks to confidently apply effective DevOps practices. By the end of this book, you'll have gained the knowledge you need to ensure seamless application deployments and business continuity. What you will learnGet acquainted with Azure DevOps Services and DevOps practicesImplement CI/CD processesBuild and deploy a CI/CD pipeline with automated testing on AzureIntegrate security and compliance in pipelinesUnderstand and implement Azure Container ServicesBecome well versed in closing the loop from production back to developmentWho this book is for This DevOps book is for software developers and operations specialists interested in implementing DevOps practices for the Azure cloud. Application developers and IT professionals with some experience in software development and development practices will also find this book useful. Some familiarity with Azure DevOps basics is an added advantage.

<u>Mastering Windows Server 2019</u> Apr 13 2021 Enhance and secure your datacenter with the newest Microsoft server platform Key FeaturesDevelop necessary skills to design and implement Microsoft Server 2019 in enterprise environmentProvide support to your medium to large enterprise and leverage your experience in administering Microsoft Server 2019Effectively administering Windows server 2019 with the help of practical examplesBook Description Mastering Windows Server 2019 – Second Edition covers all of the essential information needed to implement and utilize this latest-and-greatest platform as the core of your data center computing needs. You will begin by installing and managing Windows Server 2019, and by clearing up common points of confusion surrounding the versions and licensing of this new product. Centralized management, monitoring, and configuration of servers is key to an efficient IT department, and you will discover multiple methods for quickly managing all of your servers from a single pane of glass. To this end, you will spend time inside Server Manager, PowerShell, and even the new Windows Admin Center, formerly known as Project Honolulu. Even though this book is focused on Windows Server 2019 LTSC, we will still discuss containers and Nano Server, which are more commonly related to the SAC channel of the server platform, for a well-rounded exposition of all aspects of using Windows Server in your environment. We also discuss the various remote access technologies available in this operating system, as well as guidelines for virtualizing your data center with Hyper-V. By the end of this book, you

will have all the ammunition required to start planning for, implementing, and managing Windows. What you will learnWork with the updated Windows Server 2019 interface, including Server Core and Windows Admin CenterSecure your network and data with new technologies in Windows Server 2019Learn about containers and understand the appropriate situations to use Nano ServerDiscover new ways to integrate your data center with Microsoft AzureHarden your Windows Servers to help keep the bad guys outVirtualize your data center with Hyper-VWho this book is for If you are a System Administrator or an IT professional interested in designing and deploying Windows Server 2019 then this book is for you. Previous experience of Windows Server operating systems and familiarity with networking concepts is required.

 Building Hybrid Clouds with Azure Stack Dec 10 2020 Bring the power of Microsoft Azure Hybrid Cloud technology to your datacenter. About This Book Build and deploy software-defined infrastructures and deliver Azure-based IaaS and Paas services in your datacenter Use Azure Stack to leverage your current infrastructure with Microsoft Hybrid Cloud and get the best of both worlds Unlock greater levels of performance and flexibility and save your organization money, time, and resources Who This Book Is For The book is for administrators and architects who are planning to implement or administer a hybrid cloud infrastructure using Microsoft Cloud Technology. This book is ideal for those who are looking forward to implement and run a hybrid cloud infrastructure with PaaS, SaaS and IaaS services. What You Will Learn Gain a clear understanding of Azure Stack design Set up storage, network and compute services in Azure Stack Implement and run a hybrid cloud infrastructure with PaaS, SaaS, and IaaS services Get an overview of the automation options in Azure Stack Integrate Azure public services such as multi-factor authentication and Azure AD with Azure Stack Learn about the services available in the future In Detail Azure Stack is all about creating fewer gaps between on-premise and public cloud application deployment. Azure Stack is the next logical evolution of Microsoft Cloud Services to create a true Hybrid Cloud-ready application. This book provides an introduction to Microsoft Azure Stack and the Cloud First Approach. Starting with an introduction to Microsoft Azure Stack Architecture, the book will help you plan and deploy your Microsoft Azure Stack. Next, you will learn about the Network and Storage option in Microsoft Azure Stack and you'll create your own private cloud solution. Finally, you will understand how to integrate Public Cloud Services with Microsoft Azure Stack and extend it using the 3rd Party Resource Provider. After reading the book, you will have a good understanding of an end-to-end process for designing, implementing, offering, and supporting cloud solutions for enterprises or service providers. Style and approach This book is a practical guide to help you unlock a hybrid cloud stack using Azure Stack. Using a straight forward and easy to implement approach, this book guides you through the basic planning for a hybrid cloud stack, describes the infrastructure technologies Azure Stack is based on, and explains how to deploy and administer an Azure Stack-based infrastructure.