

Architecting Microsoft Azure Solutions Training For Exam

Prepare for Microsoft Exam 70-534--and help demonstrate your real-world mastery of Microsoft Azure solution design and architecture. Designed for experienced IT pros 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: Describe Microsoft Azure infrastructure and networking Help secure resources Design an application storage and data access strategy Design an advanced application Design websites Design a management, monitoring, and business continuity strategy This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you have experience designing Microsoft Azure cloud or hybrid solutions and supporting application life cycle management

Master the Microsoft Azure platform and prepare for the AZ-304 certification exam by learning the key concepts needed to identify key stakeholder requirements and translate these into robust solutions Key Features Build secure and scalable solutions on the Microsoft Azure platform Learn how to design solutions that are compliant with customer requirements Work with real-world scenarios to become a successful Azure

architect, and prepare for the AZ-304 exam Book Description The AZ-304 exam tests an architect's ability to design scalable, reliable, and secure solutions in Azure based on customer requirements. Exam Ref AZ-304 Microsoft Azure Architect Design Certification and Beyond offers complete, up-to-date coverage of the AZ-304 exam content to help you prepare for it confidently, pass the exam first time, and get ready for real-world challenges. This book will help you to investigate the need for good architectural practices and discover how they address common concerns for cloud-based solutions. You will work through the CloudStack, from identity and access through to infrastructure (IaaS), data, applications, and serverless (PaaS). As you make progress, you will delve into operations including monitoring, resilience, scalability, and disaster recovery. Finally, you'll gain a clear understanding of how these operations fit into the real world with the help of full scenario-based examples throughout the book. By the end of this Azure book, you'll have covered everything you need to pass the AZ-304 certification exam and have a handy desktop reference guide. What you will learn Understand the role of architecture in the cloud Ensure security through identity, authorization, and governance Find out how to use infrastructure components such as compute, containerization, networking, and storage accounts Design scalable applications and databases using web apps, functions, messaging, SQL, and Cosmos DB Maintain operational health through monitoring, alerting, and backups Discover how to create repeatable and reliable automated deployments Understand customer

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requirements and respond to their changing needs Who this book is for This book is for Azure Solution Architects who advise stakeholders and help translate business requirements into secure, scalable, and reliable solutions. Junior architects looking to advance their skills in the Cloud will also benefit from this book. Experience with the Azure platform is expected, and a general understanding of development patterns will be advantageous.

Prepare for Microsoft Exam AZ-300—and help demonstrate your real-world mastery of architecting high-value Microsoft Azure solutions for your organization or customers. Designed for modern IT professionals, this Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Expert level. Focus on the expertise measured by these objectives: Deploy and configure infrastructure Implement workloads and security Create and deploy apps Implement authentication and secure data Develop for the cloud and for Azure storage This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you are an IT professional who wants to demonstrate your ability to design modern Microsoft Azure solutions involving compute, network, storage, and security About the Exam Exam AZ-300 focuses on knowledge needed to analyze resource usage; create and configure storage accounts and VMs; automate VM deployments and implement VM solutions; create and manage virtual networks; manage Azure AD and hybrid identities; migrate servers to Azure; configure

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serverless computing; implement app load balancing; integrate on-premises and virtual networks; manage RBAC; implement MFA; create web apps with PaaS; design and develop containerized apps; implement authentication and secure data solutions; build solutions with Cosmos DB or RDBMSes; configure message-based integration architecture; and develop for autoscaling. About Microsoft Certification Passing this exam and Exam AZ-301: Microsoft Azure Architect Design fulfills your requirements for the Microsoft Certified: Azure Solutions Architect Expert credential, demonstrating your expertise in compute, network, storage, and security for designing modern cloud-based solutions that run on Microsoft Azure. See full details at: microsoft.com/learn

Cloud applications have a unique set of characteristics. They run on commodity hardware, provide services to untrusted users, and deal with unpredictable workloads. These factors impose a range of problems that you, as a designer or developer, need to resolve. Your applications must be resilient so that they can recover from failures, secure to protect services from malicious attacks, and elastic in order to respond to an ever changing workload. This guide demonstrates design patterns that can help you to solve the problems you might encounter in many different areas of cloud application development. Each pattern discusses design considerations, and explains how you can implement it using the features of Windows Azure. The patterns are grouped into categories: availability, data management, design and implementation, messaging, performance and scalability, resilience, management and monitoring, and security. You

will also see more general guidance related to these areas of concern. It explains key concepts such as data consistency and asynchronous messaging. In addition, there is useful guidance and explanation of the key considerations for designing features such as data partitioning, telemetry, and hosting in multiple datacenters. These patterns and guidance can help you to improve the quality of applications and services you create, and make the development process more efficient. Enjoy!

Take your Office 365 skills to the next level. Master PowerShell for Office 365 to stay competitive in today's world of highly sought after cloud management skills. With expert guidance, IT pros will learn how to leverage the muscle of PowerShell to automate many advanced administrative tasks not otherwise accessible in the Office 365 Admin Center. You will discover how to unlock configuration options and automate tasks in order to free up valuable time and resources. This book is your companion to administering Office 365 with PowerShell. You will learn time-saving techniques such as how to streamline administrative tasks, and how to manage users, licenses, and Office 365 services. Expert and MVP Vlad Catrinescu introduces each chapter with an overview and basic fundamentals, such as how to connect to your required service in Office 365, so that you have a solid foundation for success. Benefit from learning the theory behind PowerShell for Office 365 and put your knowledge to practice with numerous hands-on code examples. What You'll Learn Manage users in bulk Export data such as user lists and groups Create and manage Office 365 groups Manage

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Exchange online distribution lists, mailboxes, and contacts Configure Skype for Business settings Perform compliance searches directly from PowerShell Who This Book Is For Any IT pro who needs to manage Office 365 or one of its services such as Exchange, SharePoint, or Skype for Business. Readers should have a basic knowledge of PowerShell and the Office 365 service they want to manage.

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

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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

Explore C# and the .NET Core framework to create applications and optimize them with ASP.NET Core 2 Key Features Get to grips with multi-threaded, concurrent, and asynchronous programming in C# and .NET Core Develop modern, cross-platform applications with .NET Core 2.0 and C# 7.0 Create efficient web applications with ASP.NET Core 2. Book Description C# is a widely used programming language, thanks to its easy learning curve, versatility, and support for modern paradigms. The language is used to create desktop apps, background services, web apps, and mobile apps. .NET Core is open source and compatible with Mac OS and Linux. There is no limit to what you can achieve with C# and .NET Core. This Learning Path begins with the basics of C# and object-oriented programming (OOP) and explores features of C#, such as tuples, pattern matching, and out variables. You will understand .NET Standard 2.0 class libraries and ASP.NET Core 2.0, and create professional websites, services, and applications. You will become familiar with mobile app development using Xamarin.Forms and learn to develop high-performing applications by writing optimized

code with various profiling techniques. By the end of C# 7 and .NET: Designing Modern Cross-platform Applications, you will have all the knowledge required to build modern, cross-platform apps using C# and .NET. This Learning Path includes content from the following Packt products: C# 7.1 and .NET Core 2.0 - Modern Cross-Platform Development - Third Edition by Mark J. Price C# 7 and .NET Core 2.0 High Performance by Ovais Mehboob Ahmed Khan What you will learn Explore ASP.NET Core to create professional web applications Master OOP with C# to increase code reusability and efficiency Protect your data using encryption and hashing Measure application performance using BenchmarkDotNet Use design techniques to increase your application's performance Learn memory management techniques in .NET Core Understand tools and techniques to monitor application performance Who this book is for This Learning Path is designed for developers who want to gain a solid foundation in C# and .NET Core, and want to build cross-platform applications. To gain maximum benefit from this Learning Path, you must have basic knowledge of C#.

An expert guide for IT administrators needing to create and manage a public cloud and virtual network using Microsoft Azure With Microsoft Azure challenging Amazon Web Services (AWS) for market share, there has been no better time for IT professionals to broaden and expand their knowledge of Microsoft's flagship virtualization and cloud computing service. Microsoft Azure Infrastructure Services for Architects: Designing Cloud Solutions helps readers develop the skills required to understand the capabilities

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of Microsoft Azure for Infrastructure Services and implement a public cloud to achieve full virtualization of data, both on and off premise. Microsoft Azure provides granular control in choosing core infrastructure components, enabling IT administrators to deploy new Windows Server and Linux virtual machines, adjust usage as requirements change, and scale to meet the infrastructure needs of their entire organization. This accurate, authoritative book covers topics including IaaS cost and options, customizing VM storage, enabling external connectivity to Azure virtual machines, extending Azure Active Directory, replicating and backing up to Azure, disaster recovery, and much more. New users and experienced professionals alike will: Get expert guidance on understanding, evaluating, deploying, and maintaining Microsoft Azure environments from Microsoft MVP and technical specialist John Savill Develop the skills to set up cloud-based virtual machines, deploy web servers, configure hosted data stores, and use other key Azure technologies Understand how to design and implement serverless and hybrid solutions Learn to use enterprise security guidelines for Azure deployment Offering the most up to date information and practical advice, Microsoft Azure Infrastructure Services for Architects: Designing Cloud Solutions is an essential resource for IT administrators, consultants and engineers responsible for learning, designing, implementing, managing, and maintaining Microsoft virtualization and cloud technologies.

Developing Microservices Architecture on Azure with Open Source Technologies is a

complete, step-by-step guide to building flexible microservices architectures by leveraging services provided by the Microsoft Azure cloud platform, and key open-source technologies such as Java, Node.JS, .NET Core and Angular. Expert Microsoft consultants Ovais Mehboob and Arvind Chandaka guide students step-by-step through a realistic case study project that illuminates key technical implementation tasks for establishing end to end infrastructure, developing cloud-native applications, automating deployment, and realizing value.

Students who are beginning studies in technology need a strong foundation in the basics before moving on to more advanced technology courses and certification programs. The Microsoft Technology Associate (MTA) is a new and innovative certification track designed to provide a pathway for future success in technology courses and careers. The MTA program curriculum helps instructors teach and validate fundamental technology knowledge and provides students with a foundation for their careers as well as the confidence they need to succeed in advanced studies. Through the use of MOAC MTA titles you can help ensure your students future success in and out of the classroom. Database Administration Fundamentals covers introductory knowledge and skills including: relational databases; core database concepts; relational database concepts; security requirements for databases and the data stored in them; database

objects -- such as tables and views; graphical tools and T-SQL scripts; database queries; and stored procedures.

This text does not include not include a MOAC Labs Online access code. This 70-410 Installing and Configuring Windows Server 2012 textbook prepares certification students for the first of a series of three exams which validate the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure into an existing enterprise environment. This Microsoft Official Academic Course is mapped to the 70-410 Installing and Configuring Windows Server 2012 exam objectives. This textbook focuses on real skills for real jobs and prepares students to prove mastery of core services such as Active Directory and networking services. In addition, this book also covers such valuable skills as:

- Managing Active Directory Domain Services Objects
- Automating Active Directory Domain Services Administration
- Implementing Local Storage
- Implementing File and Print Services
- Implementing Group Policy
- Implementing Server Virtualization with Hyper-V

Exam Ref AZ-304 Microsoft Azure Architect Design offers professional-level preparation that helps candidates maximize their exam performance and sharpen their skills on the job. It focuses on specific areas of expertise modern IT professionals need to demonstrate real-world mastery of designing architecting

high-value, real-world Azure cloud applications. Coverage includes designing monitoring, identity and security, data storage, business continuity, and infrastructure.

This is the Lab Manual to accompany 70-697: Configuring Windows Devices exam. This is a standalone product, access to 70-697: Configuring Windows Devices exam sold separately. Students pursuing a Microsoft Certified Solutions Associate (MCSA) for Windows 10 will need to complete the 70-697: Configuring Windows Devices exam, after finishing the 70-698. This exam provides key enterprise-level training for Windows Information Technology professionals. Exam 70-697 is the second exam required to earn the Windows 10 MCSA credential. Exam 70-697 is recommended as a follow-up to 70-698. This exam validates a candidate's fundamental knowledge and skills for building solid identities, protection of content (data loss protection), mobile device management policy, virtualization with Hyper-V, application management using the Company Portal and the Windows Store. Candidates will be evaluated on Windows 10 security and integrated Azure features. Microsoft Official Academic Course (MOAC) textbooks are designed for instructor-led classroom courses.

We're thrilled to share another free ebook with you: *Introducing Microsoft Azure HDInsight*, by Avkash Chauhan, Valentine Fontama, Michele Hart, Wee Hyong

Tok, and Buck Woody. Here are the download links: Download the PDF (6.37 MB; 130 pages) from <http://aka.ms/IntroHDInsight/PDF> Download the EPUB (8.46 MB) from <http://aka.ms/IntroHDInsight/EPUB> Download the MOBI (12.8 MB) from <http://aka.ms/IntroHDInsight/MOBI> Download the code samples (6.83 KB) from <http://aka.ms/IntroHDInsight/CompContent> Get a head start evaluating Windows Azure - with technical insights from a Microsoft MVP Mitch Tulloch. This guide introduces the latest 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. Topics include: Understanding Windows Azure Windows Azure Compute Services Windows Azure Network Services Windows Azure Data Services Windows Azure App Services Getting Started with Windows Azure Prepare for Microsoft Exam 70-487—and help demonstrate your real-world mastery of developing Windows Azure and web services. 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: Accessing data Querying and manipulating data by using the Entity Framework Designing and implementing WCF Services Creating and consuming Web API-based

services Deploying web applications and services This Microsoft Exam Ref: Organizes its coverage by exam objectives. Features strategic, what-if scenarios to challenge you.

Avoid getting lost in the complexity of Azure with The Azure Cloud Native Architecture Mapbook. This book will give you an expert-guided tour of Azure and help you map different architectural perspectives for various architecture disciplines. You'll learn how to apply the different architectural styles and become a better Azure Architect.

Become a certified Azure Architect and learn how to design effective solutions that span compute, security, networking, and development Key Features: Discover how you can design and architect powerful and cost-effective solutions on Microsoft Azure Prepare to achieve AZ-303 certification with the help of mock tests and practice questions Enhance your computing, networking, storage, and security skills to design modern cloud-based solutions Book Description: From designing solutions on Azure to configuring and managing virtual networks, the AZ-303 certification validates your knowledge and skills for all this and much more. Whether you want to take the certification exam or gain hands-on experience in administering, developing, and architecting Azure solutions, this study guide will help you get started. Divided into four modules, this book

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

What You Will Learn:

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

Who this book is for: ?This book

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

Build, manage, and control an open hybrid cloud infrastructure using Red Hat CloudForms About This Book Understand the infrastructure management capabilities through monitoring and tracking techniques Control the hybrid cloud infrastructure using policies and define actions based on events and conditions Learn to view and use trends in the hybrid setup to perform capacity planning and optimization Who This Book Is For If you are an existing Red Hat administrator who is new to Red Hat Cloud Infrastructure and would like to manage and deploy Hybrid clouds, then this book is for you. Red Hat Linux administration experience is assumed. What You Will Learn Install and configure Red Hat CloudForms 3.1 in the Red Hat Enterprise Linux OpenStack platform Add Amazon EC2 and OpenStack as Cloud providers and adding VMware as an infrastructure provider Provision an EC2 instance Manage lifecycle of virtual

machines and instances Create custom domains, namespaces, classes, schemas, instances, and invoke automation workflows Monitor and gather intelligence information about the Hybrid Cloud environment Get to know about supported APIs that can be used to integrate third-party systems with Red Hat CloudForms In Detail The increasing adoption of the Cloud has led to enterprises having a heterogeneous IT environment that consists of both private and public cloud infrastructures, and in most cases existing virtualized infrastructures as well. As building and managing such a diverse IT infrastructure is a major challenges, Red Hat CloudForms provides a unified, consistent, and comprehensive management platform. With features like cloud intelligence dashboard, self-service portal, lifecycle management, policy-based governance, quotas, capacity management, monitoring and reporting, Red Hat CloudForms lets you manage your hybrid cloud infrastructure from a single pane of glass. This book will equip you with a hands-on approach on how to build a hybrid cloud environment and then manage, control, and gain operational insights into it. The book starts by showing you how to install and configure Red Hat CloudForms, and add infrastructure and cloud providers to build the hybrid cloud environment. Next, you will learn to provision virtual machines and instances to these platform providers, and manage and control the lifecycle of these resources. You will also

get to know about automating provisioning. Moving on, you'll get to grips with the management of resources using policies, events, conditions, and actions. You'll also learn to monitor these resources from a single pane of glass. Finally, the book covers viewing capacity and utilization trends to optimize the overall hybrid cloud infrastructure, and also introduces you to supported APIs. By end of the book, you will be able to deploy and use Red Hat CloudForms. Style and approach This book is an easy-to-follow guide that explains all topics in a sequential manner, building upon each other to finally create and manage the Hybrid Cloud environment.

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.

Become a proficient Microsoft Azure solutions architect Azure certifications are critical

to the millions of IT professionals Microsoft has certified as MCSE and MCSA in Windows Server in the last 20 years. All of these professionals need to certify in key Azure exams to stay current and advance in their careers. Exams AZ-303 and AZ-304 are the key solutions architect exams that experienced Windows professionals will find most useful at the intermediate and advanced points of their careers. Microsoft Azure Architect Technologies and Design Complete Study Guide Exams AZ-303 and AZ-304 covers the two critical Microsoft Azure exams that intermediate and advanced Microsoft IT professionals will need to show proficiency as their organizations move to the Azure cloud. • Understand Azure • Set up your Microsoft Cloud network • Solve real-world problems • Get the confidence to pass the exam By learning all of these things plus using the Study Guide review questions and practice exams, the reader will be ready to take the exam and perform the job with confidence.

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

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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.

Architecting Microsoft Azure Solutions – Exam Guide 70-535A complete guide to passing the 70-535 Architecting Microsoft Azure Solutions examPackt Publishing Ltd This study guide includes all the topics that are still relevant from the previous 70-534 exam, updated with the latest features like Artificial Intelligence, IoT, and architecture styles. This guide will help Azure Architects, Developers or anyone interested in designing and implementing effective Cloud architecture strategies.

Prepare for the newest versions of Microsoft Exam 70-533—and help demonstrate your

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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

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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.

Direct from Microsoft, this Exam Ref is the official study guide for the new Microsoft AZ-303 Microsoft Azure Architect certification exam, and covers every single objective. Designed for modern IT professionals, this Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Expert level. Focus on the expertise measured by these objectives: Deploy and configure infrastructure Implement workloads and security Create and deploy apps Implement authentication and secure data Develop for the cloud and for Azure storage Update to a version of SharePoint that offers the best of both on-premise and the cloud using SharePoint 2019, the latest release of this cornerstone technology from Microsoft. Don your technical learning hat to get up close and confident on the new time-saving modern features of on-premise, and the many new security and hybrid settings. Deploying SharePoint 2019 begins with a general introduction to SharePoint 2019, covering new features and expanding your knowledge and capability with the

technology systematically. You will learn about the new world of SharePoint, and how it was “cloud-born” from Office 365. From there you will dive into learning how to design a physical architecture for SharePoint Server 2019 and get familiar with the key concepts of high availability (HA) and disaster recovery (DR) solutions. What You'll Learn Install, configure, and optimize SharePoint 2019 Understand SharePoint 2019 as a hybrid framework Get comfortable with new tools, such as Flow, PowerApps, and Power BI Configure systems connected to SharePoint, such as Office Online Server and Workflow Manager Migrate content and service databases from previous versions of SharePoint to SharePoint 2019 Implement HA and DR topologies with SharePoint 2019 to satisfy business continuity requirements Who This Book Is For Those tasked with installing, configuring, and maintaining SharePoint Server 2019 for their organization. This book assumes some working knowledge of a previous release of SharePoint Server, such as SharePoint 2013 or SharePoint 2016.

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,

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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.

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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

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Azure Infrastructure Services is your total solution.

Microsoft Azure Architect - Exam Guide AZ-303 is a complete guide to mastering topics related to Azure Architect practices. With detailed coverage of concepts and techniques, you'll gain the knowledge and skills required to take and pass the AZ-303 exam and become a Microsoft Azure Architect expert.

Discover high-value Azure security insights, tips, and operational optimizations This book presents comprehensive Azure Security Center techniques for safeguarding cloud and hybrid environments. Leading Microsoft security and cloud experts Yuri Diogenes and Dr. Thomas Shinder show how to apply Azure Security Center's full spectrum of features and capabilities to address protection, detection, and response in key operational scenarios. You'll learn how to secure any Azure workload, and optimize virtually all facets of modern security, from policies and identity to incident response and risk management. Whatever your role in Azure security, you'll learn how to save hours, days, or even weeks by solving problems in most efficient, reliable ways possible. Two of Microsoft's leading cloud security experts show how to:

- Assess the impact of cloud and hybrid environments on security, compliance, operations, data protection, and risk management
- Master a new security paradigm for a world without traditional perimeters
- Gain visibility and control to secure compute, network, storage, and application workloads
- Incorporate Azure Security Center into your security operations center
- Integrate Azure Security Center with Azure AD Identity Protection Center and third-party solutions
- Adapt Azure Security Center's built-in policies and definitions for your organization
- Perform security assessments and implement Azure Security Center recommendations
- Use incident response features to detect, investigate, and address threats
- Create high-fidelity

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fusion alerts to focus attention on your most urgent security issues • Implement application whitelisting and just-in-time VM access • Monitor user behavior and access, and investigate compromised or misused credentials • Customize and perform operating system security baseline assessments • Leverage integrated threat intelligence to identify known bad actors Prepare for Microsoft Exam 70-535—and help demonstrate your real-world mastery of architecting complete cloud solutions on the Microsoft Azure platform. Designed for architects and other cloud 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 compute infrastructure Design data implementation Design networking implementation Design security and identity solutions Design solutions by using platform services Design for operations This Microsoft Exam Ref: Organizes its coverage by exam skills Features strategic, what-if scenarios to challenge you Includes DevOps and hybrid technologies and scenarios Assumes you have experience building infrastructure and applications on the Microsoft Azure platform, and understand the services it offers

This Microsoft Official Academic Course (MOAC) IT Professional curriculum prepares certification students for success every step of the way. This 70-413 Designing and Implementing a Server Infrastructure exam course is the first 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

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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.

This course shows entry to mid-level Visual Studio developers how to create customized REST Web APIs using the ASP.NET framework and then how to deploy those APIs to Microsoft's Azure cloud computing platform. It begins with a description of the REST protocol and an overview of ASP.NET controllers and models, followed by a discussion of the Microsoft OWIN pipeline specification and how to write custom middleware to utilize that specification. It then moves into a detailed overview of Azure and how to host API systems in the cloud before finishing with an explanation of how to build C# and JavaScript client programs that can communicate with APIs from remote systems. Learn to build and customize Web APIs using the Microsoft ASP.NET framework Master the ability to deploy ASP.NET Web APIs to Microsoft's Azure cloud Understand Microsoft's OWIN pipeline: Middleware, authentication, authorization, and security Explore four different methods for publishing Web API projects to the cloud Learn to build C# and JavaScript client programs that can talk to APIs from remote systems John Adams works as a Senior Cloud Solutions Architect for Opsgility, a Microsoft cloud services and training company. An MCP with specialist certifications in .NET Framework 4, web applications, and in architecting and developing Microsoft Azure solutions, John has been developing ASP.NET and Azure solutions for almost a decade. He is the author of multiple O'Reilly titles, including *Azure for Developers* and *Learning Kendo UI Web Development*. Ryan Butler has been developing on the Microsoft stack since 2002 and is

currently a consultant for Qusitive in Irving, Texas.

In the race to compete in today's fast-moving markets, large enterprises are busy adopting new technologies for creating new products, processes, and business models. But one obstacle on the road to digital transformation is placing too much emphasis on technology, and not enough on the types of processes technology enables. What if different lines of business could build their own services and applications—and decision-making was distributed rather than centralized? This report explores the concept of a digital business platform as a way of empowering individual business sectors to act on data in real time. Much innovation in a digital enterprise will increasingly happen at the edge, whether it involves business users (from marketers to data scientists) or IoT devices. To facilitate the process, your core IT team can provide these sectors with the digital tools they need to innovate quickly. This report explores:

- Key cultural and organizational changes for developing business capabilities through cross-functional product teams
- A platform for integrating applications, data sources, business partners, clients, mobile apps, social networks, and IoT devices
- Creating internal API programs for building innovative edge services in low-code or no-code environments
- Tools including Integration Platform as a Service, Application Platform as a Service, and Integration Software as a Service
- The challenge of integrating microservices and serverless architectures
- Event-driven architectures for processing and reacting to events in real time

You'll also learn about a complete pervasive integration solution as a core component of a digital business platform to serve every audience in your organization.

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

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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.

Get the definitive guide on designing applications on the Microsoft application platform—straight from the Microsoft patterns & practices team. Learn how to choose the most appropriate architecture and the best implementation technologies that the Microsoft

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application platform offers applications developers. Get critical design recommendations and guidelines organized by application type—from Web, mobile, and rich Internet applications to Office Business Applications. You also get links to additional technical resources that can help with your application development.

The Exam Ref is the official study guide for Microsoft certification exams. Featuring concise, objective-by-objective reviews and strategic case scenarios and Thought Experiments, exam candidates get professional-level preparation for the exam. The Exam Ref helps candidates maximise their performance on the exam and sharpen their job-role skills. It organises material by the exam's objective domains. This Exam Ref is a complete guide for the 70-534 exam covering architecting cloud solutions on Azure including all aspects of designing and creating a strategy for a complete solution leveraging the Microsoft Azure Cloud. This includes Azure Resource Manager (ARM) templates, Networking, Security, application storage and data access, advanced applications, web and mobile apps, compute infrastructure, and managing, monitoring and creating a business continuity strategy.

Kubernetes radically changes the way applications are built and deployed in the cloud. Since its introduction in 2014, this container orchestrator has become one of the largest and most popular open source projects in the world. The updated

edition of this practical book shows developers and ops personnel how Kubernetes and container technology can help you achieve new levels of velocity, agility, reliability, and efficiency. Kelsey Hightower, Brendan Burns, and Joe Beda—who've worked on Kubernetes at Google and beyond—explain how this system fits into the lifecycle of a distributed application. You'll learn how to use tools and APIs to automate scalable distributed systems, whether it's for online services, machine learning applications, or a cluster of Raspberry Pi computers. Create a simple cluster to learn how Kubernetes works Dive into the details of deploying an application using Kubernetes Learn specialized objects in Kubernetes, such as DaemonSets, jobs, ConfigMaps, and secrets Explore deployments that tie together the lifecycle of a complete application Get practical examples of how to develop and deploy real-world applications in Kubernetes Prepare for Microsoft Exam AZ-900—and help demonstrate your real-world mastery of cloud services and how they can be provided with Microsoft Azure. Designed for professionals in any non-technical or technical role, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Fundamentals level. Focus on the expertise measured by these objectives: Understand cloud concepts Understand core Azure services Understand security, privacy, compliance, and trust Understand Azure pricing

and support This Microsoft Exam Ref: Organizes its coverage by exam objectives
Features strategic, what-if scenarios to challenge you Assumes you want to show
foundational knowledge of cloud services and their delivery with Microsoft Azure;
no technical background or IT experience is required About the Exam Exam
AZ-900 focuses on knowledge needed to evaluate cloud service's value; explain
IaaS, PaaS, and SaaS; compare public, private, and hybrid cloud models;
understand core Azure architectural components, products, and management
tools; describe the Azure Marketplace, its usage, and key solutions; understand
Azure security, identity services, and monitoring; manage privacy, compliance,
and data protection; price subscriptions and manage costs; choose support
options; use Service Level Agreements; and understand the Azure service
lifecycle. About Microsoft Certification Passing this exam fulfills your
requirements for the Microsoft Certified Azure Fundamentals credential,
demonstrating that you understand cloud concepts, core Azure Services, Azure
pricing and support, and the fundamentals of cloud security, privacy, compliance,
and trust. See full details at: www.microsoft.com/learn
This book will teach you to migrate your organization's business operations from
local data centers to the Azure cloud platform and manage them to enhance
overall efficiency.

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Use this invaluable study companion and hands-on guide to help you prepare for the AZ-300 and AZ-303 certification exam and get well on your way to becoming an Azure Solutions Architect. The book starts with an overview of public, private, and hybrid clouds and then goes into configuration of virtual machines. Azure Resource Manager (ARM) and VM encryption are discussed along with Azure Monitor. You will learn how to work with Azure recommendations and analyze your resource configuration. Storage solutions, connecting to networks, and Azure Active Directory are discussed in depth, with examples. You will be able to migrate servers to Azure and demonstrate server-less computing, load balancing, and app services in Azure. You also will learn about Service Fabric, Azure Kubernetes services, and data security in Azure. Cosmos DB and Relational DB are covered and you will know how to connect to cloud databases using SQL Server Management Studio (SSMS). The book presents exercises, practice questions, and Azure architecture best practices. What Will You Learn Be able to speak with customers, understand their infrastructure, and provide a blueprint to migrate their framework to Azure Go beyond moving on-premise frameworks to Azure and design solutions on Azure from the start Know Azure architecture best practices to optimize Azure deployments Complete practice exercises to prepare for exam lab assignments Take a mock exam for practice Who This Book Is For

Azure developers, Azure Solution Architects, and those aspiring to fill these roles, who possess some familiarity with cloud computing

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