

## Download Ebook Mastering Identity And Access Management With Microsoft Azure

# Mastering Identity And Access Management With Microsoft Azure

**Build advanced authentication solutions for any cloud or web environment Active Directory has been transformed to reflect the cloud revolution, modern protocols, and today's newest SaaS paradigms. This is an authoritative, deep-dive guide to building Active Directory authentication solutions for these new environments. Author Vittorio Bertocci drove these technologies from initial concept to general availability, playing key roles in everything from technical design to documentation. In this book, he delivers comprehensive guidance for**

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**building complete solutions. For each app type, Bertocci presents high-level scenarios and quick implementation steps, illuminates key concepts in greater depth, and helps you refine your solution to improve performance and reliability. He helps you make sense of highly abstract architectural diagrams and nitty-gritty protocol and implementation details. This is the book for people motivated to become experts. Active Directory Program Manager Vittorio Bertocci shows you how to: Address authentication challenges in the cloud or on-premises Systematically protect apps with Azure AD and AD Federation Services Power sign-in flows with OpenID Connect, Azure AD, and AD libraries Make the most of OpenID Connect's middleware and supporting classes**

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**Work with the Azure AD representation of apps and their relationships Provide fine-grained app access control via roles, groups, and permissions Consume and expose Web APIs protected by Azure AD Understand new authentication protocols without reading complex spec documents**

**Become an expert at managing enterprise identity infrastructure with Active Directory Domain Services 2022 Key Features Design and update your identity infrastructure by utilizing the latest Active Directory features and core capabilities Overcome migration challenges as you update to Active Directory Domain Services 2022 Establish a strong identity foundation in the cloud by consolidating secure access Book**

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**Description Mastering Active Directory, Third Edition is a comprehensive guide for Information Technology professionals looking to improve their knowledge about MS Windows Active Directory Domain Service. The book will help you to use identity elements effectively and manage your organization's infrastructure in a secure and efficient way. This third edition has been fully updated to reflect the importance of cloud-based strong authentication and other tactics to protect identity infrastructure from emerging security threats. Mastering Active Directory, Third Edition provides extensive coverage of AD Domain Services and helps you explore their capabilities as you update to Windows Server 2022. This book will also teach you how to extend on-premises**

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**identity presence to cloud via Azure AD hybrid setup. By the end of this Microsoft Active Directory book, you'll feel confident in your ability to design, plan, deploy, protect, and troubleshoot your enterprise identity infrastructure. What you will learn**  
**Install, protect, and manage Active Directory Domain Services (Windows Server 2022)**  
**Design your hybrid identity by evaluating business and technology requirements**  
**Automate administrative tasks in Active Directory using Windows PowerShell 7.x**  
**Protect sensitive data in a hybrid environment using Azure Information Protection**  
**Learn about Flexible Single Master Operation (FSMO) roles and their placement**  
**Manage directory objects effectively using administrative tools and PowerShell**  
**Centrally**

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**maintain the state of user and computer configuration by using Group Policies Harden your Active Directory using security best practices Who this book is for If you are an Active Directory administrator, system administrator, or IT professional who has basic knowledge of Active Directory and is looking to become an expert in this topic, this book is for you. You need to have some experience of working with Active Directory to make the most of this book.**

**In depth informative guide to implement and use AWS security services effectively. About This Book Learn to secure your network, infrastructure, data and applications in AWS cloud Log, monitor and audit your AWS resources for continuous security and continuous**

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**compliance in AWS cloud Use AWS managed security services to automate security. Focus on increasing your business rather than being diverged onto security risks and issues with AWS security. Delve deep into various aspects such as the security model, compliance, access management and much more to build and maintain a secure environment. Who This Book Is For This book is for all IT professionals, system administrators and security analysts, solution architects and Chief Information Security Officers who are responsible for securing workloads in AWS for their organizations. It is helpful for all Solutions Architects who want to design and implement secure architecture on AWS by the following security by design principle. This book is**

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**helpful for personnel in Auditors and Project Management role to understand how they can audit AWS workloads and how they can manage security in AWS respectively. If you are learning AWS or championing AWS adoption in your organization, you should read this book to build security in all your workloads. You will benefit from knowing about security footprint of all major AWS services for multiple domains, use cases, and scenarios. What You Will Learn Learn about AWS Identity Management and Access control Gain knowledge to create and secure your private network in AWS Understand and secure your infrastructure in AWS Understand monitoring, logging and auditing in AWS Ensure Data Security in AWS Learn to secure your**



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**applications in AWS Explore AWS Security best practices In Detail Mastering AWS Security starts with a deep dive into the fundamentals of the shared security responsibility model. This book tells you how you can enable continuous security, continuous auditing, and continuous compliance by automating your security in AWS with the tools, services, and features it provides. Moving on, you will learn about access control in AWS for all resources. You will also learn about the security of your network, servers, data and applications in the AWS cloud using native AWS security services. By the end of this book, you will understand the complete AWS Security landscape, covering all aspects of end - to -end software and hardware security along with logging,**

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**auditing, and compliance of your entire IT environment in the AWS cloud. Lastly, the book will wrap up with AWS best practices for security. Style and approach The book will take a practical approach delving into different aspects of AWS security to help you become a master of it. It will focus on using native AWS security features and managed AWS services to help you achieve continuous security and continuous compliance.**

**The IT pro's must-have guide to Windows Server 2016 Mastering Windows Server 2016 is a complete resource for IT professionals needing to get quickly up to date on the latest release. Designed to provide comprehensive information in the context of real-world usage, this book offers expert guidance through the new tools and**

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**features to help you get Windows Server 2016 up and running quickly. Straightforward discussion covers all aspects, including virtualization products, identity and access, automation, networking, security, storage and more, with clear explanations and immediately-applicable instruction. Find the answers you need, and explore new solutions as Microsoft increases their focus on security, software-defined infrastructure, and the cloud; new capabilities including containers and Nano Server, Shielded VMs, Failover Clustering, PowerShell, and more give you plenty of tools to become more efficient, more effective, and more productive. Windows Server 2016 is the ideal server for Windows 10 clients, and is loaded with new features that IT professionals**

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**need to know. This book provides a comprehensive resource grounded in real-world application to help you get up to speed quickly. Master the latest features of Windows Server 2016 Apply new tools in real-world scenarios Explore new capabilities in security, networking, and the cloud Gain expert guidance on all aspect of Windows Server 2016 migration and management System administrators tasked with upgrading, migrating, or managing Windows Server 2016 need a one-stop resource to help them get the job done. Mastering Windows Server 2016 has the answers you need, the practicality you seek, and the latest information to get you up to speed quickly. Solve your cloud administration issues relating to**

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**networking, storage, and identity management speedily and efficiently**

**Empower users by managing and protecting identities and data, 2nd Edition**

**Actionable, proven solutions to identity management and authentication on servers and in the cloud**

**Mastering Microsoft Exchange Server 2013**

**The Fourth Industrial Revolution**

**Mastering Leadership**

**Career Issues for Master's Level Industrial-Organizational Psychologists**

**Become a master at managing enterprise identity infrastructure by leveraging Active Directory About This Book Manage your Active Directory services for Windows Server 2016 effectively**

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**Automate administrative tasks in Active Directory using PowerShell Manage your organization's network with ease Who This Book Is For If you are an Active Directory administrator, system administrator, or network professional who has basic knowledge of Active Directory and are looking to gain expertise in this topic, this is the book for you. What You Will Learn Explore the new features in Active Directory Domain Service 2016 Automate AD tasks with PowerShell Get to know the advanced functionalities of the schema Learn about Flexible Single Master Operation (FSMO) roles and their placement Install and migrate Active directory from older versions to Active Directory 2016 Manage Active Directory objects using different tools and techniques Manage users, groups, and devices effectively Design your OU structure in the best way**

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**Audit and monitor Active Directory Integrate Azure with Active Directory for a hybrid setup In Detail Active Directory is a centralized and standardized system that automates networked management of user data, security, and distributed resources and enables interoperation with other directories. If you are aware of Active Directory basics and want to gain expertise in it, this book is perfect for you. We will quickly go through the architecture and fundamentals of Active Directory and then dive deep into the core components, such as forests, domains, sites, trust relationships, OU, objects, attributes, DNS, and replication. We will then move on to AD schemas, global catalogs, LDAP, RODC, RMS, certificate authorities, group policies, and security best practices, which will help you gain a better understanding of objects and components and**

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**how they can be used effectively. We will also cover AD Domain Services and Federation Services for Windows Server 2016 and all their new features. Last but not least, you will learn how to manage your identity infrastructure for a hybrid-cloud setup. All this will help you design, plan, deploy, manage operations on, and troubleshoot your enterprise identity infrastructure in a secure, effective manner. Furthermore, I will guide you through automating administrative tasks using PowerShell cmdlets. Toward the end of the book, we will cover best practices and troubleshooting techniques that can be used to improve security and performance in an identity infrastructure. Style and approach This step-by-step guide will help you master the core functionalities of Active Directory services using Microsoft Server 2016 and PowerShell, with real-world best practices at**



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the end.

**Create powerful applications to interact with popular service providers such as Facebook, Google, Twitter, and more by leveraging the OAuth 2.0 Authorization Framework About This Book Learn how to use the OAuth 2.0 protocol to interact with the world's most popular service providers, such as Facebook, Google, Instagram, Slack, Box, and more Master the finer details of this complex protocol to maximize the potential of your application while maintaining the utmost of security Step through the construction of a real-world working application that logs you in with your Facebook account to create a compelling infographic about the most important person in the world—you! Who This Book Is For If you are an application developer, software architect, security engineer, or even a**

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**casual programmer looking to leverage the power of OAuth, Mastering OAuth 2.0 is for you. Covering basic topics such as registering your application and choosing an appropriate workflow, to advanced topics such as security considerations and extensions to the specification, this book has something for everyone. A basic knowledge of programming and OAuth is recommended. What You Will Learn Discover the power and prevalence of OAuth 2.0 and use it to improve your application's capabilities Step through the process of creating a real-world application that interacts with Facebook using OAuth 2.0 Examine the various workflows described by the specification, looking at what they are and when to use them Learn about the many security considerations involved with creating an application that interacts with other service**

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**providers Develop your debugging skills with dedicated pages for tooling and troubleshooting Build your own rich, powerful applications by leveraging world-class technologies from companies around the world In Detail OAuth 2.0 is a powerful authentication and authorization framework that has been adopted as a standard in the technical community. Proper use of this protocol will enable your application to interact with the world's most popular service providers, allowing you to leverage their world-class technologies in your own application. Want to log your user in to your application with their Facebook account? Want to display an interactive Google Map in your application? How about posting an update to your user's LinkedIn feed? This is all achievable through the power of OAuth. With a focus on practicality and security, this book**

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**takes a detailed and hands-on approach to explaining the protocol, highlighting important pieces of information along the way. At the beginning, you will learn what OAuth is, how it works at a high level, and the steps involved in creating an application. After obtaining an overview of OAuth, you will move on to the second part of the book where you will learn the need for and importance of registering your application and types of supported workflows. You will discover more about the access token, how you can use it with your application, and how to refresh it after expiration. By the end of the book, you will know how to make your application architecture robust. You will explore the security considerations and effective methods to debug your applications using appropriate tools. You will also have a look at special considerations to integrate with OAuth**

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**service providers via native mobile applications. In addition, you will also come across support resources for OAuth and credentials grant. Style and approach With a focus on practicality and security, Mastering OAuth 2.0 takes a top-down approach at exploring the protocol. Discussed first at a high level, examining the importance and overall structure of the protocol, the book then dives into each subject, adding more depth as we proceed. This all culminates in an example application that will be built, step by step, using the valuable and practical knowledge you have gained.**

**Between the 18th and 19th centuries, Britain experienced massive leaps in technological, scientific, and economical advancement**

**Start empowering users and protecting corporate data, while**

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**managing identities and access with Microsoft Azure in different environments** **Key Features** **Understand how to identify and manage business drivers during transitions** **Explore Microsoft Identity and Access Management as a Service (IDaaS) solution** **Over 40 playbooks to support your learning process with practical guidelines** **Book Description** **Microsoft Azure and its Identity and access management are at the heart of Microsoft's software as service products, including Office 365, Dynamics CRM, and Enterprise Mobility Management. It is crucial to master Microsoft Azure in order to be able to work with the Microsoft Cloud effectively. You'll begin by identifying the benefits of Microsoft Azure in the field of identity and access management. Working through the functionality of identity and access management as a service,**

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**you will get a full overview of the Microsoft strategy.**

**Understanding identity synchronization will help you to provide a well-managed identity. Project scenarios and examples will enable you to understand, troubleshoot, and develop on essential authentication protocols and publishing scenarios.**

**Finally, you will acquire a thorough understanding of Microsoft Information protection technologies. What you will learn Apply technical descriptions to your business needs and deployments Manage cloud-only, simple, and complex hybrid environments Apply correct and efficient monitoring and identity protection strategies Design and deploy custom Identity and access management solutions Build a complete identity and access management life cycle Understand authentication and application publishing mechanisms Use and understand the**

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**most crucial identity synchronization scenarios Implement a suitable information protection strategy Who this book is for This book is a perfect companion for developers, cyber security specialists, system and security engineers, IT consultants/architects, and system administrators who are looking for perfectly up-to-date hybrid and cloud-only scenarios. You should have some understanding of security solutions, Active Directory, access privileges/rights, and authentication methods. Programming knowledge is not required but can be helpful for using PowerShell or working with APIs to customize your solutions. Downloading the example code for this book You can download the example code files for all Packt books you have purchased from your account at <http://www.Pack ...>**



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**Design, deploy, and protect Active Directory Domain Services for Windows Server 2022**

**Microsoft Identity and Access Administrator Exam Guide**  
**Explore the latest innovative solutions to provide secure identification and authentication**

**Implementing Identity Management on AWS**

**Implement enterprise-grade identity and access management for on-premises and cloud apps**

**Learn Azure Administration**

**Mastering Identity and Access Management with Microsoft Azure -Second Edition**

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*CNSS 4011 & 4013A! Access control protects resources against unauthorized viewing, tampering, or destruction. They serve as a primary means of ensuring privacy, confidentiality, and prevention of unauthorized disclosure. Revised and updated with the latest data from this fast paced field, Access Control, Authentication, and Public Key Infrastructure defines the components of access control, provides a business framework for implementation, and discusses legal requirements that impact access control programs. It looks at the risks, threats, and vulnerabilities prevalent*

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*in information systems and IT infrastructures and how to handle them. It provides a student and professional resource that details how to put access control systems to work as well as testing and managing them. New to the Second Edition: Updated references to Windows 8 and Outlook 2011 A new discussion of recent Chinese hacking incidence Examples depicting the risks associated with a missing unencrypted laptop containing private data. New sections on the Communications Assistance for Law Enforcement Act (CALEA) and granting Windows folder permissions are added. New information on the Identity Theft Enforcement*

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*and Restitution Act and the Digital Millennium Copyright Act (DMCA).*

*This unique text provides a holistic systems approach to project portfolio management which includes people, processes, tools, and techniques that work synergistically to produce portfolio decisions with the best chance of success. Accompanied by decision support software and advanced decision making techniques, it guides readers step-by-step through the entire project portfolio management process. This professional guide is also ideal for executive continuing education programs, and as a primary text for*

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*graduate level academic courses.*

*The bestselling guide to Exchange Server, fully updated for the newest version Microsoft Exchange Server 2013 is touted as a solution for lowering the total cost of ownership, whether deployed on-premises or in the cloud. Like the earlier editions, this comprehensive guide covers every aspect of installing, configuring, and managing this multifaceted collaboration system. It offers Windows systems administrators and consultants a complete tutorial and reference, ideal for anyone installing Exchange Server for the first time or those migrating from an earlier*

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*Exchange Server version. Microsoft Exchange Server 2013 is a messaging system that allows for access to e-mail, voicemail, and calendars from a variety of devices and any location, making it ideal for the enterprise. With more than 21,000 copies of earlier editions sold, this comprehensive guide offers systems administrators and consultants both a tutorial and a reference guide for installing and managing Exchange Server 2013. A team of Microsoft Certified Masters walks you step by step through planning and design, installation, administration and management, maintenance, and more. Mastering Microsoft*

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*Exchange Server 2013 is the complete reference for planning, installing, and maintaining the most popular e-mail server product available. A bestselling Exchange Server guide, updated for the 2016 release Mastering Microsoft Exchange Server 2016 is the gold-standard reference for system administrators and first-time users alike. Fully updated to align with the latest release, this expert-led guide provides comprehensive coverage and easy-to-follow tutorials for all aspects of Exchange Server installation, configuration, and management. Whether you're migrating from an earlier version or installing Exchange Server*

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*for the first time, this book gives you quick access to the answers you need. Step-by-step instructions walk you through planning and design, installation, administration and management, maintenance, and more, so you can get up to speed quickly and get back to work. With a focus on the hands-on details, the Microsoft Certified Masters author team provides practical insight and invaluable guidance on every aspect of Exchange Server 2016, from mastering the basics to leveraging new features. Microsoft Exchange allows access to e-mail, voicemail, and calendars at any time, from almost any device. The 2016*



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*release is designed specifically to appeal to enterprises; if you've been tasked with the implementation, this guide has the information you need. Get up to speed with the latest changes and features Understand server configurations, requirements, installation, and migration Manage mailboxes, groups, connectivity, and the client access server Troubleshoot common issues efficiently and effectively Exchange Server 2016 shifts even more control to the user, freeing administrators to perform more critical tasks. Beefed-up architecture and more centralized functions have eased*

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*configuration and upgrades, and a robust cloud implementation is expected to draw enterprises sooner rather than later. Systems administrators need to become familiar with the latest changes, and Mastering Microsoft Exchange Server 2016 is the ultimate reference and tutorial.*

*Modern Authentication with Azure Active Directory for Web Applications*

*Mastering the Job Market*

*Keycloak - Identity and Access Management for Modern Applications*

*Create and maintain a secure cloud ecosystem*

*Mastering AWS Security*

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*Building Ontologies with Basic Formal Ontology*

*Active Directory Administration Cookbook*

*Learn how to work with the Automate feature of CloudForms, the powerful Red Hat cloud management platform that lets you administer your virtual infrastructure, including hybrid public and private clouds. This practical hands-on introduction shows you how to increase your operational efficiency by automating day-to-day tasks that now require manual input. Throughout the book, author Peter McGowan provides a combination of theoretical information and practical coding examples to help you learn the Automate object model. With this CloudForms feature, you can create auto-scalable cloud applications, eliminate manual decisions and operations when provisioning virtual machines and cloud*

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*instances, and manage your complete virtual machine lifecycle. In six parts, this book helps you: Learn the objects and concepts for developing automation scripts with CloudForms Automate Customize the steps and workflows involved in provisioning virtual machines Create and use service catalogs, items, dialogs, objects, bundles, and hierarchies Use CloudForm's updated workflow to retire and delete virtual machines and services Orchestrate and coordinate with external services as part of a workflow Explore distributed automation processing as well as argument passing and handling*

*Is your leadership a competitive advantage, or is it costing you? How do you know? Are you developing your leadership effectiveness at the pace of change? For most leaders today, complexity is outpacing their personal and collective development.*

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*Most leaders are in over their heads, whether they know it or not. The most successful organizations over time are the best led. While this has always been true, today escalating global complexity puts leadership effectiveness at a premium. Mastering Leadership involves developing the effectiveness of leaders—individually and collectively—and turning that leadership into a competitive advantage. This comprehensive roadmap for optimal leadership features: Breakthrough research that connects increased leadership effectiveness with enhanced business performance The first fully integrated Universal Model of Leadership—one that integrates the best theory and research in the fields of Leadership and Organizational Development over the last half century A free, online self-assessment of your leadership, using the Leadership Circle Profile, visibly outlining how you are currently leading and*

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*how to develop even greater effectiveness The five stages in the evolution of leadership—Egocentric, Reactive, Creative, Integral, and Unitive—along with the organizational structures and cultures that develop at each of these stages Six leadership practices for evolving your leadership capability at a faster pace A map of your optimal path to greater leadership effectiveness Case stories that facilitate pragmatic application of this Leadership Development System to your particular situation This timeless, authoritative text provides a systemic approach for developing your senior leaders and the leadership system of your organization. It does not recommend quick fixes, but argues that real development requires a strategic, long-term, and integrated approach in order to forge more effective leaders and enhanced business performance. Mastering Leadership offers a developmental pathway to bring*

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*forth the highest and best use of yourself, your life, and your leadership. By more meaningfully deploying all of who you are every day, individually and collectively, you will achieve a leadership legacy consistent with your highest aspirations. Understand the IAM toolsets, capabilities, and paradigms of the AWS platform and learn how to apply practical identity use cases to AWS at the administrative and application level Key Features Learn administrative lifecycle management and authorization Extend workforce identity to AWS for applications deployed to Amazon Web Services (AWS) Understand how to use native AWS IAM capabilities with apps deployed to AWS Book Description AWS identity management offers a powerful yet complex array of native capabilities and connections to existing enterprise identity systems for administrative and application*

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*identity use cases. This book breaks down the complexities involved by adopting a use-case-driven approach that helps identity and cloud engineers understand how to use the right mix of native AWS capabilities and external IAM components to achieve the business and security outcomes they want. You will begin by learning about the IAM toolsets and paradigms within AWS. This will allow you to determine how to best leverage them for administrative control, extending workforce identities to the cloud, and using IAM toolsets and paradigms on an app deployed on AWS. Next, the book demonstrates how to extend your on-premise administrative IAM capabilities to the AWS backplane, as well as how to make your workforce identities available for AWS-deployed applications. In the concluding chapters, you'll learn how to use the native identity services with applications deployed on*



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*AWS. By the end of this IAM Amazon Web Services book, you will be able to build enterprise-class solutions for administrative and application identity using AWS IAM tools and external identity systems. What you will learn Understand AWS IAM concepts, terminology, and services Explore AWS IAM, Amazon Cognito, AWS SSO, and AWS Directory Service to solve customer and workforce identity problems Apply the concepts you learn about to solve business, process, and compliance challenges when expanding into AWS Navigate the AWS CLI to unlock the programmatic administration of AWS Explore how AWS IAM, its policy objects, and notational language can be applied to solve security and access management use cases Relate concepts easily to your own environment through IAM patterns and best practices Who this book is for Identity engineers and administrators, cloud*

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*administrators, security architects, or anyone who wants to explore and manage IAM solutions in AWS will find this book useful. Basic knowledge of AWS cloud infrastructure and services is required to understand the concepts covered in the book more effectively.*

*An immersive learning experience enhanced with technical, hands-on labs to understand the concepts, methods, tools, platforms, and systems required to master the art of cybersecurity Key Features Get hold of the best defensive security strategies and tools Develop a defensive security strategy at an enterprise level Get hands-on with advanced cybersecurity threat detection, including XSS, SQL injections, brute forcing web applications, and more Book Description Every organization has its own data and digital assets that need to be protected against an ever-growing threat landscape*

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*that compromises the availability, integrity, and confidentiality of crucial data. Therefore, it is important to train professionals in the latest defensive security skills and tools to secure them. Mastering Defensive Security provides you with in-depth knowledge of the latest cybersecurity threats along with the best tools and techniques needed to keep your infrastructure secure. The book begins by establishing a strong foundation of cybersecurity concepts and advances to explore the latest security technologies such as Wireshark, Damn Vulnerable Web App (DVWA), Burp Suite, OpenVAS, and Nmap, hardware threats such as a weaponized Raspberry Pi, and hardening techniques for Unix, Windows, web applications, and cloud infrastructures. As you make progress through the chapters, you'll get to grips with several advanced techniques such as malware analysis, security automation,*

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*computer forensics, and vulnerability assessment, which will help you to leverage pentesting for security. By the end of this book, you'll have become familiar with creating your own defensive security tools using IoT devices and developed advanced defensive security skills. What you will learn Become well versed with concepts related to defensive security Discover strategies and tools to secure the most vulnerable factor – the user Get hands-on experience using and configuring the best security tools Understand how to apply hardening techniques in Windows and Unix environments Leverage malware analysis and forensics to enhance your security strategy Secure Internet of Things (IoT) implementations Enhance the security of web applications and cloud deployments Who this book is for This book is for all IT professionals who want to take their first steps into the world of*

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*defensive security; from system admins and programmers to data analysts and data scientists with an interest in security.*

*Experienced cybersecurity professionals working on broadening their knowledge and keeping up to date with the latest defensive developments will also find plenty of useful information in this book. You'll need a basic understanding of networking, IT, servers, virtualization, and cloud platforms before you get started with this book.*

### *Brand Management*

*Secure and protect your Windows environment from intruders, malware attacks, and other cyber threats*

### *Mastering OAuth 2.0*

*An Integrated Framework for Breakthrough Performance and Extraordinary Business Results*

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*Mastering Identity and Access Management with Microsoft Azure*

*Mastering Defensive Security*

*Design Fundamentals*

**Description: Consumer identity and access management (CIAM) is a critical component of any modern organisation's digital transformation initiative. If you used the Internet yesterday, you would very likely have interacted with a website that had customer identity and access management at its foundation. Making an online purchase, checking your bank balance, getting a quote for car insurance, logging into a social media site or submitting and paying your income tax return. All of those**

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***interactions require high scale, secure identity and access management services. But how are those systems designed? Synopsis: Modern organisations need to not only meet end user privacy, security and usability requirements, but also provide business enablement opportunities that are agile and can respond to market changes rapidly. The modern enterprise architect and CISO is no longer just focused upon internal employee security - they now need to address the growing need for digital enablement across consumers and citizens too. CIAM Design Fundamentals, is CISO and architect view on designing the fundamental building blocks***

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***of a scaleable, secure and usable consumer identity and access management (CIAM) system. Covering: business objectives, drivers, requirements, CIAM life-cycle, implementer toolkit of standards, design principles and vendor selection guidance. Reviews: "Consumer identity is at the very core of many a successful digital transformation project. Simon blends first hand experience, research and analysis, to create a superbly accessible guide to designing such platforms - "Scott Forrester CISSP, Principal Consultant, UK. "This is the book that needs to be on every Identity Architect's Kindle. Simon does a great job of laying the foundation and history of***



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***Consumer Identity and Access Management and then gives you the roadmap that you need as an architect to deliver success on a project" - Brad Tummy, Founder & Principal Architect, Tummy Technology, Inc, USA. "Leveraging his strong security and industry background, Simon has created a must-have book for any Identity and Access Management professional looking to implement a CIAM solution. I strongly recommend the Consumer Identity & Access Management Design Fundamentals book!" - Robert Skoczylas, Chief Executive Officer, Indigo Consulting Canada Inc. About the Author: Simon Moffatt is a recognised***

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***expert in the field of digital identity and access management, having spent nearly 20 years working in the sector, with experience gained in consultancies, startups, global vendors and within industry. He has contributed to identity and security standards for the likes of the National Institute of Standards and Technology and the Internet Engineering Task Force. Simon is perhaps best well known as a public speaker and industry commentator via his site The Cyber Hut. He is a CISSP, CCSP, CEH and CISA and has a collection of vendor related qualifications from the likes Microsoft, Novell and Cisco. He is an accepted full***

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***member of the Chartered Institute of Information Security (M.CIIS), a long time member of the British Computer Society and a senior member of the Information Systems Security Association. He is also a postgraduate student at Royal Holloway University, studying for a Masters of Science in Information Security. Since 2013, he has worked at ForgeRock, a leading digital identity software platform provider, where he is currently Global Technical Product Management Director.***

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

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***management Key Features Explore a variety of administration patterns used for different cloud architectures Discover best practices for administering various IT systems hosted in Azure Administer, automate, and manage your Azure cloud environment effectively Book Description Microsoft Azure is one of the upcoming cloud platforms that provide cost-effective solutions and services to help businesses overcome complex infrastructure-related challenges. This book will help you scale your cloud administration skills with Microsoft Azure. Learn Azure Administration starts with an introduction to the management of Azure subscriptions, and then***

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***takes you through Azure resource management. Next, you'll configure and manage virtual networks and find out how to integrate them with a set of Azure services. You'll then handle the identity and security for users with the help of Azure Active Directory, and manage access from a single place using policies and defined roles. As you advance, you'll get to grips with receipts to manage a virtual machine. The next set of chapters will teach you how to solve advanced problems such as DDoS protection, load balancing, and networking for containers. You'll also learn how to set up file servers, along with managing and storing backups.***

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***Later, you'll review monitoring solutions and backup plans for a host of services. The last set of chapters will help you to integrate different services with Azure Event Grid, Azure Automation, and Azure Logic Apps, and teach you how to manage Azure DevOps. By the end of this Azure book, you'll be proficient enough to easily administer your Azure-based cloud environment. What you will learn***

***Explore different Azure services and understand the correlation between them Secure and integrate different Azure components Work with a variety of identity and access management (IAM) models Find out how to set up monitoring and logging solutions***

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***Build a complete skill set of Azure administration activities with Azure DevOps Discover efficient scaling patterns for small and large workloads Who this book is for This book is for cloud administrators, system administrators, and IT professionals who want to scale up their skillset and enter the world of cloud computing. IT professionals and engineers who are already familiar with the basics of the Azure services and are looking for a step-by-step guide to solving the most common Azure problems will also find this book useful. Basic understanding of cloud concepts such as IaaS, PaaS, virtualization, networking, and common Azure***

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***services is required.***

***Work with common biometrics such as face, fingerprint, and iris recognition for business and personal use to ensure secure identification and authentication for fintech, homes, and computer systems***

***Key Features***

- Explore the next iteration of identity protection and overcome real-world challenges***
- Understand different biometric use cases to deploy a large-scale biometric system***

***Curated by renowned security ambassador and experienced author Lisa Bock***

***Book Description***

***Biometric technologies provide a variety of robust and convenient methods to securely identify and***



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***authenticate an individual. Unlike a password or smart card, biometrics can identify an attribute that is not only unique to an individual, but also eliminates any possibility of duplication. Identity Management with Biometrics is a solid introduction for anyone who wants to explore biometric techniques, such as fingerprint, iris, voice, palm print, and facial recognition. Starting with an overview of biometrics, you'll learn the various uses and applications of biometrics in fintech, buildings, border control, and many other fields. You'll understand the characteristics of an optimal biometric system and then review different types of***

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***errors and discover the benefits of multi-factor authentication. You'll also get to grips with analyzing a biometric system for usability and accuracy and understand the process of implementation, testing, and deployment, along with addressing privacy concerns. The book outlines the importance of protecting biometric data by using encryption and shows you which factors to consider and how to analyze them before investing in biometric technologies. By the end of this book, you'll be well-versed with a variety of recognition processes and be able to make the right decisions when implementing biometric technologies. What you will***

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***learn******Review the advantages and disadvantages of biometric technology******Understand the characteristics of an optimal biometric system******Discover the uses of biometrics and where they are used******Compare different types of errors and see how to tune your system******Understand the benefits of multi-factor authentication******Work with commonly used biometrics such as face, fingerprint, and iris******Analyze a biometric system for usability and accuracy******Address privacy concerns and get a glimpse of the future of biometrics******Who this book is for******Identity Management with Biometrics is for IT managers, security professionals, students, teachers, and anyone***

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***involved in selecting, purchasing, integrating, or securing a biometric system. This book will help you understand how to select the right biometric system for your organization and walk you through the steps for implementing identity management and authentication. A basic understanding of biometric authentication techniques, such as fingerprint and facial recognition, and the importance of providing a secure method of authenticating an individual will help you make the most of the book.***

***Learn to leverage the advanced capabilities of Keycloak, an open-source identity and access management solution, to enable authentication and***

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***authorization in applications Key Features Get up to speed with Keycloak, OAuth 2.0, and OpenID Connect using practical examples Configure, manage, and extend Keycloak for optimized security Leverage Keycloak features to secure different application types Book Description Implementing authentication and authorization for applications can be a daunting experience, often leaving them exposed to security vulnerabilities. Keycloak is an open-source solution for identity management and access management for modern applications, which can make a world of difference if you learn how to use it. Keycloak, helping you get***

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***started with using it and securing your applications. Complete with hands-on tutorials, best practices, and self-assessment questions, this easy-to-follow guide will show you how to secure a sample application and then move on to securing different application types. As you progress, you will understand how to configure and manage Keycloak as well as how to leverage some of its more advanced capabilities. Finally, you'll gain insights into securely using Keycloak in production. By the end of this book, you will have learned how to install and manage Keycloak as well as how to secure new and existing applications. What you will***

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***learn Understand how to install, configure, and manage Keycloak Secure your new and existing applications with Keycloak Gain a basic understanding of OAuth 2.0 and OpenID Connect Understand how to configure Keycloak to make it ready for production use Discover how to leverage additional features and how to customize Keycloak to fit your needs Get to grips with securing Keycloak servers and protecting applications Who this book is for Developers, sysadmins, security engineers, or anyone who wants to leverage Keycloak and its capabilities for application security will find this book useful. Beginner-level knowledge***

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***of app development and authentication and authorization is expected.***

***Deploy and manage industry-leading PAN-OS 10.x solutions to secure your users and infrastructure***

***Microsoft Identity Manager 2016 Handbook***

***Consumer Identity & Access Management***

***Identity and Access Management***

***A Systems Approach to Achieving Strategic Objectives***

***Learn Azure in a Month of Lunches, Second Edition***

***Practical Internet of Things Security***

**Learn how to implement multi-layered security**



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controls to protect against rapidly evolving threats to Azure environments

**Key Features**

- Develop practical skills to protect your organization from constantly evolving security threats
- Become well-versed with real-world Azure security strategies and AZ-500 exam objectives
- Effectively manage security governance, policies, and operations in Azure

**Book Description**

Security is a key part of any well-architected design. With the help of this book, you'll gain both the knowledge and the practical skills to significantly reduce the attack surface of your Azure workloads and protect your organization from

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constantly evolving threats to public cloud environments like Azure. This book is a comprehensive security guide for those looking to take the Azure Security Engineer certification exam as well as for those interested in securing their Azure infrastructure. Beyond preparing you for the Azure Security (AZ-500) exam, this book will guide you in securing your Azure environments and workloads using native Azure security capabilities. Complete with hands-on tutorials, projects, and self-assessment questions, this easy-to-follow guide builds a solid foundation of Azure security. You'll not

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only learn about security technologies in Azure but also be able to configure and manage them.

Moreover, you'll develop a clear understanding of how to identify different attack vectors and mitigate risks. By the end of this book, you'll be well-versed with implementing multi-layered security to protect identities, networks, hosts, containers, databases, and storage in Azure. What you will learn Manage users, groups, service principals, and roles effectively in Azure AD Explore Azure AD identity security and governance capabilities Understand how platform perimeter protection secures Azure

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workloads Implement network security best practices for IaaS and PaaS Discover various options to protect against DDoS attacks Secure hosts and containers against evolving security threats Configure platform governance with cloud-native tools Monitor security operations with Azure Security Center and Azure Sentinel Who this book is for If you are a newly qualified or experienced security professional, cloud administrator, architect, or developer who wants to understand how to secure your Azure environment and workloads, this book is for you. The book is a handy resource for anyone

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preparing to take the Azure Security Engineer (AZ-500) certification exam. Foundational knowledge of the Azure cloud platform will be helpful but not necessary to understand the concepts covered in this book.

A complete handbook on Microsoft Identity Manager 2016 – from design considerations to operational best practices About This Book Get to grips with the basics of identity management and get acquainted with the MIM components and functionalities Discover the newly-introduced product features and how they can help your organization A step-by-step

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guide to enhance your foundational skills in using Microsoft Identity Manager from those who have taught and supported large and small enterprise customers Who This Book Is For If you are an architect or a developer who wants to deploy, manage, and operate Microsoft Identity Manager 2016, then this book is for you. This book will also help the technical decision makers who want to improve their knowledge of Microsoft Identity Manager 2016. A basic understanding of Microsoft-based infrastructure using Active Directory is expected. Identity management beginners and

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experts alike will be able to apply the examples and scenarios to solve real-world customer problems.

What You Will Learn  
Install MIM components  
Find out about the MIM synchronization, its configuration settings, and advantages  
Get to grips with the MIM service capabilities and develop custom activities  
Use the MIM Portal to provision and manage an account  
Mitigate access escalation and lateral movement risks using privileged access management  
Configure client certificate management and its detailed permission model  
Troubleshoot MIM components by enabling logging

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and reviewing logs Back up and restore the MIM 2015 configuration Discover more about periodic purging and the coding best practices In Detail Microsoft Identity Manager 2016 is Microsoft's solution to identity management. When fully installed, the product utilizes SQL, SharePoint, IIS, web services, the .NET Framework, and SCSSM to name a few, allowing it to be customized to meet nearly every business requirement. The book is divided into 15 chapters and begins with an overview of the product, what it does, and what it does not do. To better understand the concepts in MIM, we



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introduce a fictitious company and their problems and goals, then build an identity solutions to fit those goals. Over the course of this book, we cover topics such as MIM installation and configuration, user and group management options, self-service solutions, role-based access control, reducing security threats, and finally operational troubleshooting and best practices. By the end of this book, you will have gained the necessary skills to deploy, manage and operate Microsoft Identity Manager 2016 to meet your business requirements and solve real-world customer problems. Style and approach The

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concepts in the book are explained and illustrated with the help of screenshots as much as possible. We strive for readability and provide you with step-by-step instructions on the installation, configuration, and operation of the product. Throughout the book, you will be provided on-the-field knowledge that you won't get from whitepapers and help files.

Brand Management: Mastering Research, Theory and Practice is a valuable resource for those looking to understand how a brand can be conceptualized and thus managed in all its complexity. Going beyond the 'quick fixes' of branding, it offers a

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comprehensive overview of brand management theories from the last 35 years. A highly regarded textbook, this fully updated third edition brings fresh perspectives on the latest research in, and analysis of, the various approaches to brand management. More than 1,000 academic sources have been carefully divided into a taxonomy with eight schools of thought – offering depth, breadth and precision to one of the most elusive management disciplines of our time. Perfectly marrying theory with practice, this comprehensive text is particularly useful for advanced undergraduate and postgraduate students

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of brand management, strategy and marketing. Set up next-generation firewalls from Palo Alto Networks and get to grips with configuring and troubleshooting using the PAN-OS platform Key Features Understand how to optimally use PAN-OS features Build firewall solutions to safeguard local, cloud, and mobile networks Protect your infrastructure and users by implementing robust threat prevention solutions Book Description To safeguard against security threats, it is crucial to ensure that your organization is effectively secured across networks, mobile devices, and the cloud.

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Palo Alto Networks' integrated platform makes it easy to manage network and cloud security along with endpoint protection and a wide range of security services. With this book, you'll understand Palo Alto Networks and learn how to implement essential techniques, right from deploying firewalls through to advanced troubleshooting. The book starts by showing you how to set up and configure the Palo Alto Networks firewall, helping you to understand the technology and appreciate the simple, yet powerful, PAN-OS platform. Once you've explored the web interface and command-line structure, you'll be able

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to predict expected behavior and troubleshoot anomalies with confidence. You'll learn why and how to create strong security policies and discover how the firewall protects against encrypted threats. In addition to this, you'll get to grips with identifying users and controlling access to your network with user IDs and even prioritize traffic using quality of service (QoS). The book will show you how to enable special modes on the firewall for shared environments and extend security capabilities to smaller locations. By the end of this network security book, you'll be well-versed with advanced

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troubleshooting techniques and best practices recommended by an experienced security engineer and Palo Alto Networks expert. What you will learn

- Perform administrative tasks using the web interface and command-line interface (CLI)
- Explore the core technologies that will help you boost your network security
- Discover best practices and considerations for configuring security policies
- Run and interpret troubleshooting and debugging commands
- Manage firewalls through Panorama to reduce administrative workloads
- Protect your network from malicious traffic via threat prevention

Who this

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book is for This book is for network engineers, network security analysts, and security professionals who want to understand and deploy Palo Alto Networks in their infrastructure. Anyone looking for in-depth knowledge of Palo Alto Network technologies, including those who currently use Palo Alto Network products, will find this book useful. Intermediate-level network administration knowledge is necessary to get started with this cybersecurity book.

Okta Administration: Up and Running  
Mastering Project Portfolio Management  
Mastering CloudForms Automation



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Solving Identity and Access Management in Modern Applications

Mastering Windows Server 2016

Effective techniques to secure your Windows, Linux, IoT, and cloud infrastructure

Safeguard Your Azure Workload with Innovative Cloud Security Measures

A visionary report on the revitalization of the liberal arts tradition in the electronically inflected, design-driven, multimedia language of the twenty-first century. Digital\_Humanities is a compact, game-changing report on the state of contemporary knowledge production. Answering the question “What is digital humanities?,” it provides an in-depth examination of an

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emerging field. This collaboratively authored and visually compelling volume explores methodologies and techniques unfamiliar to traditional modes of humanistic inquiry—including geospatial analysis, data mining, corpus linguistics, visualization, and simulation—to show their relevance for contemporary culture. Written by five leading practitioner-theorists whose varied backgrounds embody the intellectual and creative diversity of the field, *Digital Humanities* is a vision statement for the future, an invitation to engage, and a critical tool for understanding the shape of new scholarship.

Know how to design and use identity management to protect your application and the data it manages. At a time when security breaches result in increasingly onerous penalties, it is paramount that application developers and owners understand

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identity management and the value it provides when building applications. This book takes you from account provisioning to authentication to authorization, and covers troubleshooting and common problems to avoid. The authors include predictions about why this will be even more important in the future.

Application best practices with coding samples are provided.

Solving Identity and Access Management in Modern

Applications gives you what you need to design identity and access management for your applications and to describe it to stakeholders with confidence. You will be able to explain

account creation, session and access management, account

termination, and more. What You'll Learn Understand key

identity management concepts Incorporate essential design

principles Design authentication and access control for a

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modern application Know the identity management frameworks and protocols used today (OIDC/ OAuth 2.0, SAML 2.0) Review historical failures and know how to avoid them Who This Book Is For Developers, enterprise or application architects, business application or product owners, and anyone involved in an application's identity management solution Start empowering users and protecting corporate data, while managing identities and access with Microsoft Azure in different environments Key Features Understand how to identify and manage business drivers during transitions Explore Microsoft Identity and Access Management as a Service (IDaaS) solution Over 40 playbooks to support your learning process with practical guidelines Book Description Microsoft Azure and its Identity and access management are at the heart

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of Microsoft's software as service products, including Office 365, Dynamics CRM, and Enterprise Mobility Management. It is crucial to master Microsoft Azure in order to be able to work with the Microsoft Cloud effectively. You'll begin by identifying the benefits of Microsoft Azure in the field of identity and access management. Working through the functionality of identity and access management as a service, you will get a full overview of the Microsoft strategy. Understanding identity synchronization will help you to provide a well-managed identity. Project scenarios and examples will enable you to understand, troubleshoot, and develop on essential authentication protocols and publishing scenarios. Finally, you will acquire a thorough understanding of Microsoft Information protection technologies. What you will learnApply technical

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descriptions to your business needs and deploymentsManage cloud-only, simple, and complex hybrid environmentsApply correct and efficient monitoring and identity protection strategiesDesign and deploy custom Identity and access management solutionsBuild a complete identity and access management life cycleUnderstand authentication and application publishing mechanismsUse and understand the most crucial identity synchronization scenariosImplement a suitable information protection strategyWho this book is for This book is a perfect companion for developers, cyber security specialists, system and security engineers, IT consultants/architects, and system administrators who are looking for perfectly up-to-date hybrid and cloud-only scenarios. You should have some understanding of security

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solutions, Active Directory, access privileges/rights, and authentication methods. Programming knowledge is not required but can be helpful for using PowerShell or working with APIs to customize your solutions.

Learn to leverage existing free open source software to build an identity and access management (IAM) platform that can serve your organization for the long term. With the emergence of open standards and open source software, it's now easier than ever to build and operate your own IAM stack. The most common culprit of the largest hacks has been bad personal identification. In terms of bang for your buck, effective access control is the best investment you can make: financially, it's more valuable to prevent than to detect a security breach. That's why Identity and Access Management (IAM) is a critical

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component of an organization's security infrastructure. In the past, IAM software has been available only from large enterprise software vendors. Commercial IAM offerings are bundled as "suites" because IAM is not just one component: It's a number of components working together, including web, authentication, authorization, and cryptographic and persistence services. Deploying Identity and Access Management with Free Open Source Software documents a recipe to take advantage of open standards to build an enterprise-class IAM service using free open source software. This recipe can be adapted to meet the needs of both small and large organizations. While not a comprehensive guide for every application, this book provides the key concepts and patterns to help administrators and developers leverage a



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central security infrastructure. Cloud IAM service providers would have you believe that managing an IAM is too hard. Anything unfamiliar is hard, but with the right road map, it can be mastered. You may find SaaS identity solutions too rigid or too expensive. Or perhaps you don't like the idea of a third party holding the credentials of your users—the keys to your kingdom. Open source IAM provides an alternative. Take control of your IAM infrastructure if digital services are key to your organization's success. What You'll Learn Why to deploy a centralized authentication and policy management infrastructure Use: SAML for single sign-on, OpenID Connect for web and mobile single sign-on, and OAuth2 for API Access Management Synchronize data from existing identity repositories such as Active Directory Deploy two-factor

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authentication services Who This Book Is For Security architects (CISO, CSO), system engineers/administrators, and software developers

An Essential Guide for Cloud Administrators

Gain practical skills to secure your Azure environment and pass the AZ-500 exam

Identity Management with Biometrics

Mastering Identity and Access Management with Microsoft Azure - Second Edition

Access Control, Authentication, and Public Key Infrastructure

Business Performance Through Connected Intelligence

Digital\_Humanities

This certification guide focuses on identity

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solutions and strategies that will help you prepare for Microsoft Identity and Access Administrator certification, while enabling you to implement what you've learned in real-world scenarios

**Key Features**

- Design, implement, and operate identity and access management systems using Azure AD
- Provide secure authentication and authorization access to enterprise applications
- Implement access and authentication for cloud-only and hybrid infrastructures

**Book Description** Cloud technologies have made identity and access

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the new control plane for securing data. Without proper planning and discipline in deploying, monitoring, and managing identity and access for users, administrators, and guests, you may be compromising your infrastructure and data. This book is a preparation guide that covers all the objectives of the SC-300 exam, while teaching you about the identity and access services that are available from Microsoft and preparing you for real-world challenges. The book starts with an overview of the SC-300

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exam and helps you understand identity and access management. As you progress to the implementation of IAM solutions, you'll learn to deploy secure identity and access within Microsoft 365 and Azure Active Directory. The book will take you from legacy on-premises identity solutions to modern and password-less authentication solutions that provide high-level security for identity and access. You'll focus on implementing access and authentication for cloud-only and hybrid infrastructures as well as understand how to

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protect them using the principles of zero trust. The book also features mock tests toward the end to help you prepare effectively for the exam. By the end of this book, you'll have learned how to plan, deploy, and manage identity and access solutions for Microsoft and hybrid infrastructures. What you will learn

Understand core exam objectives to pass the SC-300 exam  
Implement an identity management solution with MS Azure AD  
Manage identity with multi-factor authentication (MFA), conditional access, and

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identity protection Design, implement, and monitor the integration of enterprise apps for Single Sign-On (SSO) Add apps to your identity and access solution with app registration Design and implement identity governance for your identity solution Who this book is for This book is for cloud security engineers, Microsoft 365 administrators, Microsoft 365 users, Microsoft 365 identity administrators, and anyone who wants to learn identity and access management and gain SC-300 certification. You should have a

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basic understanding of the fundamental services within Microsoft 365 and Azure Active Directory before getting started with this Microsoft book.

An introduction to the field of applied ontology with examples derived particularly from biomedicine, covering theoretical components, design practices, and practical applications. In the era of “big data,” science is increasingly information driven, and the potential for computers to store, manage, and integrate massive amounts of data has given



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rise to such new disciplinary fields as biomedical informatics. Applied ontology offers a strategy for the organization of scientific information in computer-tractable form, drawing on concepts not only from computer and information science but also from linguistics, logic, and philosophy. This book provides an introduction to the field of applied ontology that is of particular relevance to biomedicine, covering theoretical components of ontologies, best practices for ontology design, and examples

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of biomedical ontologies in use. After defining an ontology as a representation of the types of entities in a given domain, the book distinguishes between different kinds of ontologies and taxonomies, and shows how applied ontology draws on more traditional ideas from metaphysics. It presents the core features of the Basic Formal Ontology (BFO), now used by over one hundred ontology projects around the world, and offers examples of domain ontologies that utilize BFO. The book also describes Web Ontology

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Language (OWL), a common framework for Semantic Web technologies. Throughout, the book provides concrete recommendations for the design and construction of domain ontologies.

"Mastering the Job Market: Career Issues for Master's Level Industrial-Organizational Psychologists begins with an introduction to the field of I-O psychology and presents the empirical basis for the book, a large scale survey of I-O master's graduates and a second survey of their employers. Survey

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methodology and demographic data for I-O master's graduates and employers are presented. The remaining six chapters of this volume address a myriad of issues related to the careers of master's level I-O psychologists based on the survey data and insights from I-O master's faculty from top ranked I-O master's programs. In Chapter 2, L'Heureux and Van Hein provide information about job opportunities available to I-O master's graduates. The authors draw heavily on the Graduate Survey data to identify common

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occupational titles, organizational roles, and salary ranges for both recent I-O graduates and those later in their careers. Job positions reflect a broad range of roles that include talent management, data analytics, human resources, organizational development, and consulting. I-O psychology master's graduates overwhelming perceive their I-O degree to be valuable and report a high level of career satisfaction"--

Enhance Windows security and protect your systems and servers from various cyber

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attacks Key Features Protect your device using a zero-trust approach and advanced security techniques Implement efficient security measures using Microsoft Intune, Configuration Manager, and Azure solutions Understand how to create cyber-threat defense solutions effectively Book Description Are you looking for effective ways to protect Windows-based systems from being compromised by unauthorized users? Mastering Windows Security and Hardening is a detailed guide that helps you gain

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expertise when implementing efficient security measures and creating robust defense solutions. We will begin with an introduction to Windows security fundamentals, baselining, and the importance of building a baseline for an organization. As you advance, you will learn how to effectively secure and harden your Windows-based system, protect identities, and even manage access. In the concluding chapters, the book will take you through testing, monitoring, and security operations. In addition to this, you'll

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be equipped with the tools you need to ensure compliance and continuous monitoring through security operations. By the end of this book, you'll have developed a full understanding of the processes and tools involved in securing and hardening your Windows environment. What you will learn

- Understand baselining and learn the best practices for building a baseline
- Get to grips with identity management and access management on Windows-based systems
- Delve into the device administration and



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remote management of Windows-based systems Explore security tips to harden your Windows server and keep clients secure Audit, assess, and test to ensure controls are successfully applied and enforced Monitor and report activities to stay on top of vulnerabilities Who this book is for This book is for system administrators, cybersecurity and technology professionals, solutions architects, or anyone interested in learning how to secure their Windows-based systems. A basic understanding of Windows security

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concepts, Intune, Configuration Manager, Windows PowerShell, and Microsoft Azure will help you get the best out of this book. Mastering Microsoft Exchange Server 2016 Harness the power of Keycloak, OpenID Connect, and OAuth 2.0 protocols to secure applications

Mastering Azure Security

A real-world guide to solving customer and workforce IAM challenges in your AWS cloud environments

Microsoft Azure Security Technologies

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Certification and Beyond  
Mastering Active Directory  
Implement IAM solutions with Azure AD,  
build an identity governance strategy, and  
pass the SC-300 exam

Start empowering users and protecting corporate data, while managing Identities and Access with Microsoft Azure in different environments About This Book Deep dive into the Microsoft Identity and Access Management as a Service (IDaaS) solution Design, implement and manage simple and complex hybrid identity and access management environments Learn to apply solution architectures directly to your business needs and understand how to identify and manage business drivers during transitions Who This

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Book Is For This book is for business decision makers, IT consultants, and system and security engineers who wish to plan, design, and implement Identity and Access Management solutions with Microsoft Azure. What You Will Learn Apply technical descriptions and solution architectures directly to your business needs and deployments Identify and manage business drivers and architecture changes to transition between different scenarios Understand and configure all relevant Identity and Access Management key features and concepts Implement simple and complex directory integration, authentication, and authorization scenarios Get to know about modern identity management, authentication, and authorization protocols and standards Implement and configure a modern information protection solution Integrate and configure future improvements in authentication and

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authorization functionality of Windows 10 and Windows Server 2016 In Detail Microsoft Azure and its Identity and Access Management is at the heart of Microsoft's Software as a Service, including Office 365, Dynamics CRM, and Enterprise Mobility Management. It is an essential tool to master in order to effectively work with the Microsoft Cloud. Through practical, project based learning this book will impart that mastery. Beginning with the basics of features and licenses, this book quickly moves on to the user and group lifecycle required to design roles and administrative units for role-based access control (RBAC). Learn to design Azure AD to be an identity provider and provide flexible and secure access to SaaS applications. Get to grips with how to configure and manage users, groups, roles, and administrative units to provide a user- and group-based application and self-service access including

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the audit functionality. Next find out how to take advantage of managing common identities with the Microsoft Identity Manager 2016 and build cloud identities with the Azure AD Connect utility. Construct blueprints with different authentication scenarios including multi-factor authentication. Discover how to configure and manage the identity synchronization and federation environment along with multi-factor authentication, conditional access, and information protection scenarios to apply the required security functionality. Finally, get recommendations for planning and implementing a future-oriented and sustainable identity and access management strategy. Style and approach A practical, project-based learning experience explained through hands-on examples.

Identity and Access Management: Business Performance Through

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Connected Intelligence provides you with a practical, in-depth walkthrough of how to plan, assess, design, and deploy IAM solutions. This book breaks down IAM into manageable components to ease systemwide implementation. The hands-on, end-to-end approach includes a proven step-by-step method for deploying IAM that has been used successfully in over 200 deployments. The book also provides reusable templates and source code examples in Java, XML, and SPML. Focuses on real-world implementations Provides end-to-end coverage of IAM from business drivers, requirements, design, and development to implementation Presents a proven, step-by-step method for deploying IAM that has been successfully used in over 200 cases Includes companion website with source code examples in Java, XML, and SPML as well as reusable templates

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

A practical, indispensable security guide that will navigate you through the complex realm of securely building and deploying systems in our IoT-connected world

**About This Book** Learn to design and implement cyber security strategies for your organization  
Learn to protect cyber-physical systems and utilize forensic data analysis to beat vulnerabilities in your IoT ecosystem  
Learn best practices to secure your data from device to the cloud  
Gain insight into privacy-enhancing techniques and technologies

**Who This Book Is For** This book targets IT Security Professionals and Security Engineers (including pentesters, security architects and ethical



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hackers) who would like to ensure security of their organization's data when connected through the IoT. Business analysts and managers will also find it useful. What You Will Learn Learn how to break down cross-industry barriers by adopting the best practices for IoT deployments Build a rock-solid security program for IoT that is cost-effective and easy to maintain Demystify complex topics such as cryptography, privacy, and penetration testing to improve your security posture See how the selection of individual components can affect the security posture of the entire system Use Systems Security Engineering and Privacy-by-design principles to design a secure IoT ecosystem Get to know how to leverage the burgeoning cloud-based systems that will support the IoT into the future. In Detail With the advent of Internet of Things (IoT), businesses will be faced with defending against new types of threats.

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The business ecosystem now includes cloud computing infrastructure, mobile and fixed endpoints that open up new attack surfaces, a desire to share information with many stakeholders and a need to take action quickly based on large quantities of collected data. . It therefore becomes critical to ensure that cyber security threats are contained to a minimum when implementing new IoT services and solutions. . The interconnectivity of people, devices, and companies raises stakes to a new level as computing and action become even more mobile, everything becomes connected to the cloud, and infrastructure is strained to securely manage the billions of devices that will connect us all to the IoT. This book shows you how to implement cyber-security solutions, IoT design best practices and risk mitigation methodologies to address device and infrastructure threats to IoT solutions. This book will take readers

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on a journey that begins with understanding the IoT and how it can be applied in various industries, goes on to describe the security challenges associated with the IoT, and then provides a set of guidelines to architect and deploy a secure IoT in your Enterprise. The book will showcase how the IoT is implemented in early-adopting industries and describe how lessons can be learned and shared across diverse industries to support a secure IoT. Style and approach This book aims to educate readers on key areas in IoT security. It walks readers through engaging with security challenges and then provides answers on how to successfully manage IoT security and build a safe infrastructure for smart devices. After reading this book, you will understand the true potential of tools and solutions in order to build real-time security intelligence on IoT networks.

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Mastering Palo Alto Networks

Deploying Identity and Access Management with Free Open Source Software

Mastering Windows Security and Hardening

Demystifying OAuth 2.0, OpenID Connect, and SAML 2.0

Mastering Research, Theory and Practice

*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*

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*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,*

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*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 -*

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*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*

*Plan, design, and implement identity and access management solutions with Okta Key Features Learn how to use Okta for complete identity and access management in your organization Use single sign-on, multifactor authentication, and life cycle management for enhanced security Set up, manage, and audit API*



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*access policies*Book Description IAM, short for identity and access management, is a set of policies and technologies for ensuring the security of an organization through careful role and access assignment for users and devices. With this book, you'll get up and running with Okta, an identity and access management (IAM) service that you can use for both employees and customers. Once you've understood how Okta can be used as an IAM platform, you'll learn about the Universal Directory, which covers how to integrate other directories and applications and set up groups and policies. As you make progress, the book explores Okta's single sign-on (SSO) feature and

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*multifactor authentication (MFA) solutions. Finally, you will delve into API access management and discover how you can leverage Advanced Server Access for your cloud servers and Okta Access Gateway for your on-premises applications. By the end of this Okta book, you'll have learned how to implement Okta to enhance your organization's security and be able to use this book as a reference guide for the Okta certification exam. What you will learn*

*Understand different types of users in Okta and how to place them in groups  
Set up SSO and MFA rules to secure your IT environment  
Get to grips with the basics of end-user functionality and customization  
Find out how provisioning and*

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*synchronization with applications workExplore API management, Access Gateway, and Advanced Server AccessBecome well-versed in the terminology used by IAM professionalsWho this book is for If you are an IT consultant, business decision-maker, system administrator, system and security engineer, or anyone who wishes to use Okta to plan, design, and implement identity and access management solutions, this book is for you. A basic understanding of authentication and authorization is necessary.*

*Learn the intricacies of managing Azure AD, Azure AD Connect as well as Active Directory for administration on cloud and Windows Server 2019 Key FeaturesExpert*

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*solutions for the federation, certificates, security, and monitoring with Active Directory* Explore Azure AD and AD Connect for effective administration on cloud Automate security tasks using Active Directory and PowerShell Book Description Active Directory is an administration system for Windows administrators to automate network, security and access management tasks in the Windows infrastructure. This book starts off with a detailed focus on forests, domains, trusts, schemas and partitions. Next, you learn how to manage domain controllers, organizational units and the default containers. Going forward, you deep dive into managing Active Directory sites as well as

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*identifying and solving replication problems. The next set of chapters covers the different components of Active Directory and discusses the management of users, groups and computers. You also go through recipes that help you manage your Active Directory domains, manage user and groups objects and computer accounts, expiring group memberships and group Managed Service Accounts with PowerShell. You learn how to work with Group Policy and how to get the most out of it. The last set of chapters covers federation, security and monitoring. You will also learn about Azure Active Directory and how to integrate on-premises Active Directory with Azure AD. You learn how*

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*Azure AD Connect synchronization works, which will help you manage Azure AD. By the end of the book, you have learned in detail about Active Directory and Azure AD, too. What you will learn*

*Manage new Active Directory features, such as the Recycle Bin, group Managed Service Accounts, and fine-grained password policies*

*Work with Active Directory from the command line and use Windows PowerShell to automate tasks*

*Create and remove forests, domains, and trusts*

*Create groups, modify group scope and type, and manage memberships*

*Delegate control, view and modify permissions*

*Optimize Active Directory and Azure AD in terms of security*

*Who this book is for*

*This book*

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*will cater to administrators of existing Active Directory Domain Services environments and/or Azure AD tenants, looking for guidance to optimize their day-to-day effectiveness. Basic networking and Windows Server Operating System knowledge would come in handy.*