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| Soggetti | Microsoft Azure (Computing platform)<br>Cloud computing<br>Application software - Development |
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| Nota di contenuto | Chapter 1: Why Infrastructure as Code?- Chapter 2: Azure Resource Manager -- Chapter 3: Preparing Your Environment -- Chapter 4: Building Your First Azure Resource Manager Template -- Chapter 5: Deployment Scopes -- Chapter 6: Working with Parameters on Your ARM Template -- Chapter 7: Using Variables in Your ARM Template -- Chapter 8: Working with the Resources Section of Your ARM Template -- Chapter 9: Understanding Dependencies in Your ARM Template -- Chapter 10: Making Use of Functions in Your ARM Template -- Chapter 11: Deployment Modes of Your ARM Template -- Chapter 12: Working with Loops in Your ARM Template -- Chapter 13: Understanding Post-Deployment Configurations: Extensions and Deployment Scripts -- Chapter 14: Working with Larger and More Complex Environments -- Chapter 15: Working with Secrets in Your ARM Template -- Chapter 16: Validating Your ARM Template -- Chapter 17: Building Your Environment with Azure DevOps and ARM Templates -- Chapter 18: Deploy ARM Templates Using GitHub Actions -- Chapter 19: Project Bicep. |
| Sommario/riassunto | Learn how to leverage infrastructure as code with Azure Resource Manager (ARM) and the best practices to build, test, debug, and deploy your applications in Microsoft Azure using ARM templates and the new |

domain-specific language Bicep. As organizations consider moving partially or fully to the cloud, infrastructure as code (IaC) has become a key component to improving time to market for their applications. However, it is critical that enterprise infrastructure professionals use the right resources and strategies to build the infrastructure required to run applications in the cloud. Azure cloud-native components and capabilities automate the build and deployment process, offering a myriad of compelling reasons to leverage IaC to build your applications in Azure. Starting with the evolution of the software-defined approach and building on the basic concepts of infrastructure as code, this book provides you with comprehensive guidance to learn Azure Resource Manager from the ground up. You will learn the best practices for deploying and maintaining application infrastructure, such as template authoring tooling enhancements, Azure DevOps integrations, and updates to the deployment platform. After reading this book, you will understand the breadth and use cases of ARM capabilities and tooling within Microsoft Azure. You will be able to build, test, debug, and deploy your ARM templates and know how to use infrastructure as code to better manage the life cycle of your applications in Azure. What You Will Learn Introduces the concepts of infrastructure as code and how to leverage it using Azure Resource Manager Teaches how to enable and deploy Azure Resource Manager templates Covers the basic core elements of an ARM template to start authoring your templates and building your applications in the cloud Dives into core components such as parameters, variables, functions, dependencies, deployment modes, loops, conditions), enabling nested templates Reveals the built-in services and features in Azure, allowing the debugging process and validation process of the ARM templates Discusses "Bicep" the language for ARM templates and the DevOps integration to deploy ARM templates Who This Book Is For People who build, install, repair, or maintain the hardware and software associated with computer systems on-premises and who want to learn about the deployment and provisioning process of applications in the Microsoft Cloud using an infrastructure as code approach...