1. Record Nr. UNINA9910693041703321

Titolo	Small drinking water systems handbook : a guide to "packaged" filtration and disinfection technologies with remote monitoring and control tools / / U.S. Environmental Protection Agency, Office of Research and Development, National Risk Management Research Laboratory, Water Supply and Water Resources Division
Pubbl/distr/stampa	[Cincinnati, Ohio] : , : U.S. Environmental Protection Agency, Office of Research and Development, National Risk Management Research Laboratory, Water Supply and Water Resources Division, , 2003
Descrizione fisica	1 online resource (iv, 64 pages) : color illustrations
Soggetti	Water-supply, Rural - United States Drinking water - Purification Water-supply, Rural United States
Lingua di pubblicazione	Inglese
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Autore	Raj Pethuru
Titolo	Cloud-native computing : how to design, develop, and secure microservices and event-driven applications / / Pethuru Raj, Skylab Vanga and Akshita Chaudhary
Pubbl/distr/stampa	Piscataway, New Jersey ; ; Hoboken, New Jersey : , : IEEE Press : , : Wiley, , [2023] ©2023
ISBN	1-119-81479-0 1-119-81477-4
Descrizione fisica	1 online resource (354 pages)
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Soggetti	Application software - Development Cloud computing Application software
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- About the Authors -- Preface -- Acknowledgments -- Chapter 1 The Dawning of the Digital Era -- Demystifying the Digitization Paradigm -- Delineating the Digitalization Technologies -- Trendsetting Technologies for the Digital Era -- Why Digitization Is Indispensable -- The Connectivity and Integration Options -- The Promising Digital Intelligence Methods -- The Technological Approaches Toward Smarter Environments -- Briefing the Brewing Idea of Digital Twin -- Envisioning the Digital Universe -- Cloud-Native Applications (CNAs) -- Conclusion -- References -- Chapter 2 The Cloud-Native Computing Paradigm for the Digital Era -- Introduction -- The Onset of the Digital Era -- The Maturity of Software-defined Cloud Environments -- The Hybrid Model of Microservices Architecture (MSA) and Event-driven Architecture (EDA) -- The Aspect of Containerization -- The Emergence of Container Lifecycle Management Platforms -- Tending Toward Cloud-Native Computing -- Demystifying the Cloud-Native Architecture Style -- Distinguishing Cloud-Native Infrastructure -- Cloud-Native Security -- Cloud-Native Computing Advantages --

Conclusion -- References -- Chapter 3 Kubernetes Architecture, Best Practices, and Patterns -- Introduction -- The Emergence of Containerized Applications for IT Portability -- Microservices Architecture (MSA) Applications for IT Agility and Adaptivity -- The Onset of Containerized Cloud Environments -- The Need for Container Orchestration Platform Solutions -- The Significance of Kubernetes for Cloud-Native Systems -- Kubernetes for Edge Cloud Environments -- Kubernetes for Multi-Cloud Implementations -- Delineating the Kubernetes' Master-Slave Architecture -- The Special Features of the Kubernetes Platform -- Best Practices for Efficient and Effective Kubernetes -- Kubernetes Patterns.
Conclusion -- References -- Chapter 4 The Observability, Chaos Engineering, and Remediation for Cloud-Native Reliability -- Introduction -- The Emergence of Cloud-Native Observability -- The Key Motivations for Cloud-Native Applications -- Cloud-Native Applications: The Realization Technologies -- DevOps for Cloud-Native Applications (CNAs) -- Container Orchestration Platforms -- The Cloud-Native Application Challenges [1, 2] -- Cloud-Native Resiliency -- Cloud-Native Chaos Engineering -- Cloud-Native Observability [3-5] -- Cloud-Native Observability: The Benefits -- Cloud-Native Observability for Chaos Engineering -- AIOps-Enabled Cloud-Native Observability -- Building System Resilience Through AIOps -- Cloud-Native Remediation -- Conclusion -- References -- Chapter 5 Creating Kubernetes Clusters on Private Cloud (VMware vSphere) -- Introduction -- Purpose -- Scope -- Deployment Pre-requirements -- Prerequisites -- vCenter Requirements -- Cluster Resources -- Required IP Addresses -- DNS Records -- Create Local Linux Installer VM on VMware vSphere -- Generating an SSH Private Key and Adding it to the Agent -- Create DHCP Server -- Download OpenShift Installation for vSphere -- Procedure -- Adding vCenter Root CA Certificates to your Installer VM -- Deploying the OCP Cluster on VMware vSphere -- Installing the CLI on Linux -- Uninstall OpenShift Cluster -- Considerations When you Delete OpenShift for VMware (https://cloud.ibm.com/docs/vmwaresolutions) -- Conclusion -- Further Reading -- Chapter 6 Creating Kubernetes Clusters on Public Cloud (Microsoft Azure) -- Introduction -- Prerequisites -- Configuring a Public DNS Zone in Azure -- DNS Creation -- Prerequisites -- Create a DNS Zone -- Required Azure Roles -- Creating a Service Principal -- Azure CLI Setup -- Manually Create IAM -- Start Installation of OCP -- Uninstall Cluster -- Conclusion.
Further Reading -- Chapter 7 Design, Development, and Deployment of Event-Driven Microservices Practically -- Introduction -- Technology Stack to Build Microservices -- Express Framework -- Steps to Set Up Your Project -- Blog Post Microservice -- Comments Microservice -- Implementation of Event-Driven Model -- Event Bus -- Deployment Strategies -- Conclusion -- Chapter 8 Serverless Computing for the Cloud-Native Era -- Introduction -- The Key Motivations for Serverless Computing [1, 2] -- Briefing Serverless Computing -- The Serverless Implications -- The Evolution of Serverless Computing [3, 4] -- Serverless Application Patterns -- Containers as the Function Runtime -- Serverless Computing Components [5, 6] -- Advantages of Using a Serverless Database -- Disadvantages of Using Serverless Databases -- Top Benefits of Serverless Computing -- Overcoming Serverless Obstacles -- The Future of Serverless Computing -- Conclusion -- Appendix -- Knative for Serverless Computing -- References -- Chapter 9 Instaling Knative on a Kubernetes Cluster -- Introduction -- Knative Serving Resources -- Further Reading -- Chapter 10 Delineating Cloud-Native Edge Computing -- Introduction -- Briefing

Cloud-Native Computing -- Technical and Business Cases for Cloud-Native Computing [3, 4] -- The Emergence of Edge Computing -- Cloud-Native Technologies for Edge Computing -- Benefits of Bringing the Cloud-Native Principles to the Edge -- The Deployment Scenarios at the Edge -- Kubernetes Deployment Options for Edge Computing -- Cloud-Native at the Edge: The Use Cases -- Navigating Heterogeneous Environments at the Edge -- Monitoring Kubernetes-Enabled Edge Environments -- Edge Analytics for Real-Time Video Surveillance -- Describing Edge AI -- Conclusion -- References -- Chapter 11 Setting up a Kubernetes Cluster using Azure Kubernetes Service -- Introduction.
Benefits of Azure Kubernetes Service -- Purpose -- Scope -- An Introduction to Azure Kubernetes Service -- Features of Azure Kubernetes Services -- Azure Kubernetes Service Use Cases -- Common Uses for Azure Kubernetes Service -- High-Level Architecture -- Architecture Design -- Deployment Pre-Requisites -- Conclusion -- Further Reading -- Chapter 12 Reliable Cloud-Native Applications through Service Mesh -- Introduction -- Delineating the Containerization Paradigm -- Demystifying Microservices Architecture -- Decoding the Growing Role of Kubernetes for the Container Era -- Describing the Service Mesh Concept [1-3] -- Demystifying Service Mesh -- The Service Mesh Contributions -- The Leading Service Mesh Solutions -- Why Service Mesh is Paramount? -- Service Mesh Architectures -- Monitoring the Service Mesh -- Service Mesh Deployment Models -- Conclusion -- Appendix -- Deploying the Red Hat OpenShift Service Mesh Control Plane -- References -- Chapter 13 Cloud-Native Computing: The Security Challenges and the Solution Approaches -- Introduction to Cloud Capabilities -- Delineating the Cloud-Native Paradigm -- Why Cloud-Native Computing -- About Cloud-Native Applications -- Beginning of Cloud-Native Application Security -- Cloud-Native Security Challenges -- Capabilities of Cloud-Native Security Solutions -- Cloud-Native Application Security Procedures -- Securing Cloud-Native Applications -- Pillars of Cloud-Native Security -- Cloud-Native Security: Best Practices -- Kubernetes Security Best Practices -- Container Security Best Practices -- Cloud-Native Security Best Practices -- The Emergence of Cloud-Native Security Products and Platforms -- Key Properties of Cloud-Native Security Platforms -- Cloud Workload Protection Platforms -- Kubernetes Security Products -- AIOps for Cloud-Native Security -- Conclusion -- Reference.
Chapter 14 Microservices Security: The Concerns and the Solution Approaches -- Microservice Security Challenges and Concerns -- Best Practices to Secure Microservices -- How to Implement Fundamental Authentication and Authorization Strategies -- Dive Deeper into API Gateway -- APACHE APISIX -- Configuring APISIX -- Conclusion -- Further Reading -- Chapter 15 Setting Up Apache Kafka Clusters in a Cloud Environment and Secure Monitoring -- Introduction -- Introspecting Kafka -- Kafka Component Overview -- Guide to Set Up a Kafka Cluster -- Prerequisites -- Steps to Install -- Step 1: Setup virtual machines for Kafka -- Step 2: Configure Zookeeper and Kafka on both the machines -- zookeeper.service -- kafka.service -- Step 3: Test Zookeeper and Kafka installation -- Kafka Command Line Features -- Set Up Your Monitoring Tools for Your Cluster: Prometheus and Grafana -- Fetch Metrics Using Prometheus -- Install JMX Exporter Agent on Kafka broker -- Create Prometheus as a service on the Admin machine -- Visualize using Grafana -- Secure your cluster -- Encryption -- Authentication -- Authorization -- Conclusion -- Further Reading -- Chapter 16 Installing Knative Serving On EKS --

		Prerequisites -- EKS Installation Procedure -- Installing Knative Serving Using YAML Files -- Prerequisites -- System Requirements -- Install the Serving component -- Verify the Installation -- Configure DNS -- Install kn Using a Binary -- Install kn Using Go -- Sample Application -- Creating Your Deployment with the Knative CLI -- Interacting with Your App -- Index -- EULA.
3.	Record Nr.	UNINA9910813395403321
	Titolo	Becoming a reflective english teacher / / edited by Andrew Green
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	ISBN	1-283-22317-1 9786613223173 0-335-24291-X
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	Nota di contenuto	Front cover; Half title; Title; Copyright; Contents; Figures; Tables; Contributors; Abbreviations; 1 ANDREW GREEN - Getting started; 2 ANDREW GREEN AND JOANNA MCINTYRE - What is English?; 3 PAULA ZWOZDIAK-MYERS - Reflective practice for professional development; 4 JOANNA MCINTYRE AND ANDREW GREEN - Planning the curriculum; 5 DEBRA MYHILL AND ANNABEL WATSON - Teaching writing; 6 ANGELLA COOZE - Teaching reading; 7 ROBERT FISHER - Dialogic teaching; 8 BETHAN MARSHALL - Assessing English; 9 MAGGIE PITFIELD - Drama in English; 10 JENNY GRAHAME AND ANDREW GREEN - Media in English 11 VICKY OBIED - Knowledge about language and multi-literacies12 RICHARD QUARSHIE - English and student diversity; 13 GARY SNAPPER - Teaching post-16 English; 14 LINDA VARLEY AND ANDREW GREEN - Academic writing at M level; Index; Advert; Back cover
	Sommario/riassunto	Becoming a Reflective English Teacher builds firm bridges between

theory and practice, exploring how these can be brought together to create powerful contexts for teaching and learning across the broad spectrum of elements of the English secondary curriculum. By combining both theoretical and practical dimensions, the book enables you to reflect meaningfully on the processes and impact of your teaching.