

1. Record Nr.	UNINA9910811275303321
Autore	Exposito Garcia Ernesto Jose
Titolo	Smart SOA platforms in cloud computing architectures / / Ernesto Exposito, Code Diop
Pubbl/distr/stampa	London, [England] ; ; Hoboken, New Jersey : , : ISTE : , : Wiley, , 2014 ©2014
ISBN	1-118-76169-3 1-118-76148-0 1-118-76178-2
Edizione	[1st ed.]
Descrizione fisica	1 online resource (222 p.)
Collana	Networks and Telecommunications Series, , 2051-249X
Disciplina	004.6782
Soggetti	Cloud computing Service-oriented architecture (Computer science) Event processing (Computer science)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title Page; Copyright; Contents; Preface; Introduction; Chapter 1. Esbay Case Study; 1.1. ESBay: use case description; 1.1.1. System overview; 1.1.2. Functional requirements; 1.1.3. Other requirements; 1.2. yPBL inception phase; 1.2.1. Functional requirements; 1.2.2. Non-functional requirements; 1.2.3. Requirements matrix; 1.3. Summary; Chapter 2. Service-Oriented and Cloud Computing Architectures; 2.1. State of the art of service-oriented architectures; 2.1.1. Communication middleware solutions; 2.1.2. New orientations for integration and interoperability 2.1.3. Mediation is the solution2.1.4. SSOAPaaS 1.0 Cookbook; 2.2. Evolution of enterprise integration with the event-driven architectures; 2.2.1. Event-driven architecture paradigm; 2.2.2. Event-driven and service-oriented architecture (EDSOA); 2.2.3. SSOAPaaS 2.0 cookbook; 2.3. Performance and scalability of SOA platforms; 2.3.1. ESB mechanisms for scalability and performance management; 2.4. Smart management of SOA platforms; 2.4.1. Cloud computing; 2.4.2. Autonomic computing; 2.4.3. SSOAPaaS 3.0 cookbook; 2.4.4. SPaaS cookbook; 2.5. Summary; Chapter 3. Spaas 1.0 Cookbook

3.1. SPaaS 1.0 overview; 3.2. Creation of virtual IT infrastructure; 3.2.1. Creation of virtual machine hosting the Proxmox; 3.2.2. Installing Proxmox on a VMWare virtual machine; 3.2.3. Testing and exploring the Proxmox installation; 3.2.4. Creation of Proxmox virtual components; 3.2.5. Maintenance of the platform; 3.3. Extending the platform; 3.3.1. Cloning the platform; 3.3.2 Extending Proxmox virtual appliance templates; 3.4. Managing the platform; 3.4.1. Monitoring the Proxmox server and virtual containers using the PVE Web-GUI 3.4.2. Monitoring the Proxmox server and virtual containers using the Proxmox API; 3.5. Scaling the platform; 3.5.1. Creating a cluster; 3.5.2. Virtual component migration; 3.6. Autonomic management of the platform; 3.7. Summary; Chapter 4. Ssoapaas 1.0 Cookbook; 4.1. SSOAPaaS 1.0 overview; 4.2. Using the SPaaS 1.0.; 4.3. Adding integrability and interoperability support; 4.3.1. Creation of an enterprise service bus virtual container; 4.3.2. Creation of an application server virtual container; 4.3.3. Creation of a database server virtual container 4.3.4. Creation of an e-mail server virtual container 4.3.5. Managing OpenESB binding components; 4.3.6. Managing OpenESB service engines; 4.3.7. Netbeans IDE/Connect to OpenESB installation; 4.4. Illustrating integrability and interoperability support of an ESB; 4.4.1. Integrating an application server; 4.4.2. Integrating a database server in OpenESB; 4.4.3. Integrating a mail server in OpenESB; 4.5. Summary; Chapter 5. Ssoapaas 2.0 Cookbook; 5.1. SSOAPaaS 2.0 overview; 5.2. Using the SSOAPaaS 1.0.; 5.3. Adding availability support 5.3.1. Creation of a message-oriented middleware virtual container

Sommario/riassunto

This book is intended to introduce the principles of the Event-Driven and Service-Oriented Architecture (SOA 2.0) and its role in the new interconnected world based on the cloud computing architecture paradigm. In this new context, the concept of "service" is widely applied to the hardware and software resources available in the new generation of the Internet. The authors focus on how current and future SOA technologies provide the basis for the smart management of the service model provided by the Platform as a Service (PaaS) layer.
