Building Telephony Systems with OpenSIPS - Second Edition

By Flavio E. Goncalves, Bogdan-Andrei Iancu

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Build high-speed and highly scalable telephony systems using OpenSIPS

About This Book

- Install and configure OpenSIPS to authenticate, route, bill, and monitor VoIP calls
- Gain a competitive edge using the most scalable VoIP technology
- Discover the latest features of OpenSIPS with practical examples and case studies

Who This Book Is For

If you want to understand how to build a SIP provider from scratch using OpenSIPS, then this book is ideal for you. It is beneficial for VoIP providers, large enterprises, and universities. This book will also help readers who were using OpenSER but are now confused with the new OpenSIPS.

Telephony and Linux experience will be helpful to get the most out of this book but is not essential. Prior knowledge of OpenSIPS is not assumed.

What You Will Learn

- Learn to prepare and configure a Linux system for OpenSIPS
- Familiarise yourself with the installation and configuration of OpenSIPS
- Understand how to set a domain and create users/extensions
- Configure SIP endpoints and make calls between them
- Make calls to and from the PSTN and create access control lists to authorize calls
- Install a graphical user interface to simplify the task of provisioning user and system information
- Implement an effective billing system with OpenSIPS
- Monitor and troubleshoot OpenSIPS to keep it running smoothly

In Detail

OpenSIPS is a multifunctional, multipurpose signalling SIP server. SIP (Session Initiation Protocol) is nowadays the most important VoIP protocol and OpenSIPS is the open source leader in VoIP platforms based on SIP. OpenSIPS is used to set up SIP Proxy servers. The purpose of these servers is to receive, examine, and classify SIP requests. The whole telecommunication industry is changing to an IP environment, and telephony as we know it today will completely change in less than ten years. SIP is the protocol leading this disruptive revolution and it is one of the main protocols on next generation networks. While a VoIP provider is not the only kind of SIP infrastructure created using OpenSIPS, it is certainly one of the most difficult to implement.

This book will give you a competitive edge by helping you to create a SIP infrastructure capable of handling tens of thousands of subscribers.

Starting with an introduction to SIP and OpenSIPS, you will begin by installing and configuring OpenSIPS. You will be introduced to OpenSIPS Scripting language and OpenSIPS Routing concepts, followed by comprehensive coverage of Subscriber Management. Next, you will learn to install, configure, and customize the OpenSIPS control panel and explore dialplans and routing. You will discover how to manage the dialog module, accounting, NATTraversal, and other new SIP services. The final chapters of the book are dedicated to troubleshooting tools, SIP security, and advanced scenarios including TCP/TLS support, load balancing, asynchronous processing, and more.

A fictional VoIP provider is used to explain OpenSIPS and by the end of the book, you will have a simple but complete system to run a VoIP provider.

Style and approach

This book is a step-by-step guide based on the example of a VoIP provider. You will start with OpenSIPS installation and gradually, your knowledge depth will increase.

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Editorial Review

About the Author

Flavio E. Goncalves

Flavio E. Goncalves was born in 1966 in Brazil. Having a strong interest in computers, he got his first personal computer in 1983, and since then, it has been almost an addiction. He received his degree in engineering in 1989 with a focus on computer-aided designing and manufacturing. He is also the CTO of SipPulse Routing and Billing Solutions in Brazil?a company dedicated to the implementing of small-to-medium telephone companies, VoIP providers, and large-scale new generation telephony systems. Since 1993, he has participated in a series of certification programs and been certified as Novell MCNE/MCNI, Microsoft MCSE/MCT, Cisco CCSP/CCNP/CCDP, Asterisk dCAP, and some others. He started writing about open source software because he thinks that the way certification programs have worked is very good for learners. Some books are written by strictly technical people who sometimes do not have a clear idea on how people learn. He tried to use his 15 years of experience as an instructor to help people learn about the open source telephony software. Together with Bogdan, he created the OpenSIPS boot camp followed by the e-learning program, OpenSIPS eBootcamp. His experience with networks, protocol analyzers, and IP telephony combined with his teaching experience gave him an edge to write this book. This is the fourth book written by him. The first one was Configuration Guide for Asterisk PBX, by BookSurge Publishing, the second was Building Telephony Systems with OpenSER, by Packt Publishing, and the third was Building Telepopny Systems With OpenSIPS 1.6, by Packt Publishing. As the CTO of SipPulse, Flavio balances his time between family, work, and fun. He is the father of two children and lives in Florianopolis, Brazil?one of the most beautiful places in the world. He dedicates his free time to water sports such as surfing and sailing.

Bogdan-Andrei Iancu

Bogdan-Andrei Iancu entered the SIP world in 2001, right after graduating in computer science from the Politehnica University of Bucharest, Romania. He started as a researcher at the FOKUS Fraunhofer Institute, Berlin, Germany. For almost four years, Bogdan accumulated a quick understanding and experience of VoIP/SIP, being involved in research and industry projects and following the evolution of the VoIP world closely. In 2005, he started his own company, Voice System. The company entered the open source software market by launching the OpenSER/OpenSIPS project?a free GPL-SIP proxy implementation. As the CEO of Voice System, Bogdan pushes the company in two directions: developing and supporting. The OpenSIPS public project (Voice System being the major contributor and sponsor of the project) creates professional solutions and platforms (OpenSIPS-based) for the industry. In other words, Bogdan's interest was to create knowledge (through the work with the project) and to provide the knowledge where needed (embedded in commercial products or raw format as consultancy services). In the effort of sharing the knowledge of the SIP/OpenSIPS project, he started to run the OpenSIPS Bootcamp in 2008 together with Flavio E. Goncalves, which is intensive training dedicated to people who want to learn and get hands-on experience on OpenSIPS from experienced people. Bogdan's main concern is to research and develop new technologies or software for SIP-based VoIP (this is the reason for his strong involvement with the OpenSIPS project) and pack all these cutting-edge technologies as professional solutions for the industry.

Users Review

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