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Titolo      Building telephony systems with OpenSER [[electronic resource] ] : a step-by-step guide to building a high-performance telephony system / / Flavio E. Goncalves

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Disciplina      004.695

Soggetti      Computer network protocols
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Lingua di pubblicazione      Inglese

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Livello bibliografico      Monografia

Note generali      Description based upon print version of record.

Nota di contenuto      Cover; Table of Contents; Preface; Chapter 1: Introduction to SIP; SIP Basics; SIP Proxy in the Context of a VOIP Provider; SIP Operation Theory; SIP Registration Process; Server Operating as a SIP Proxy; Server Operating as a SIP Redirect; Basic Messages; SIP Dialog Flow; SIP Transactions and Dialogs; The RTP Protocol; Codecs; DTMF-Relay; Real Time Control Protocol (RTCP); Session Description Protocol (SDP); The SIP Protocol and the OSI Model; The VoIP Provider ""Big Picture""; SIP Proxy; User, Administration, and Provisioning Portal; PSTN Gateway; Media Server
Media Proxy or RTP Proxy for Nat TraversalRADIUS Accounting; CDRTool Rating; Monitoring Tools; Where You Can Find More Information; Summary; Chapter 2: The SIP Express Router; Where Are We?; What is the SIP Express Router?; What Software to Use, SER or OpenSER?; Usage Scenarios; OpenSER Architecture; Core and Modules; Sections of the File openser.cfg; Sessions, Dialogs, and Transactions; openser.cfg Message Processing; SIP Proxy-Expected Behavior; Stateful Operation; Differences between Strict Routing and Loose Routing; Understanding SIP and RTP; Summary; Chapter 3: OpenSER Installation

Hardware RequirementsSoftware Requirements; Lab-Installing Linux for OpenSER; Downloading and Installing OpenSER v1.2; Lab-Running OpenSER at the Linux Boot; OpenSER v1.2 Directory Structure; Configuration Files (etc/openser); Modules (/lib/openser/modules); Binaries (/sbin); Log Files; Startup Options; Summary; Chapter 4: OpenSER Standard Configuration; Where Are We?; Analyzing the Standard Configuration; Using the Standard Configuration; Routing Basics; Transactions and Dialogs; Initial and Sequential Requests; Routing in a Context of a Transaction; Routing in the Context of a Dialog

Lab-Tracking a Complete DialogLab-Running Stateless; Lab-Disabling record-route; Summary; Chapter 5: Adding Authentication with MySQL; Where Are We?; The AUTH_DB Module; The REGISTER Authentication Sequence; Register Sequence (Packets Captured by ngrep); Register Sequence Code Snippet; The INVITE Authentication Sequence; INVITE Sequence Packet Capture; Digest Authentication; WWW-Authenticate Response Header; The Authorization Request Header; QOP-Quality of Protection; Installing MySQL Support; openser.cfg File Analysis; The Openserctl Shell Script; Openserctl Resource File; Openserctlrc File Using OpenSER with AuthenticationEnhancing the Script; Managing Multiple Domains; Alternative Routes; The Functions check_to() and check_from(); Using Aliases; Handling CANCEL requests and retransmissions; Full Script with All the Resources Above; Lab-Enhancing the Security; Lab-Using Aliases; Summary; Chapter 6: Building the User Portal with SerMyAdmin; SerMyAdmin; Lab-Installing SerMyAdmin; Basic Tasks; Registering a New User; Approving a New User; User Management; Domain Management; Interface Customization; Summary; Chapter 7: Connectivity to the PSTN; Where Are We?

Requests Sent to the Gateway

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| <span style="color:darkred">Sommario/riassunto</span> | This book is a well illustrated, step-by-step guide to building a SIP based network using OpenSER. This book is for readers who want to understand how to build a SIP provider from scratch using OpenSER. Telephony and Linux experience will be helpful but is not essential. Readers need not have prior knowledge of OpenSER. |