

# Liferay Portal 4 Installation Guide

This IBM® Redbooks® publication delivers a Site Reliability Engineering (SRE) solution for cloud workloads that uses Red Hat OpenStack for Infrastructure as a Service (IaaS), Red Hat OpenShift for Platform as a Service (PaaS), and IT operations management that uses open source tools. Today, customers are no longer living in a world of licensed software. Curiosity increased the demand for investigating the Open Source world for Community Open Source and Enterprise grade applications. IBM as one of the contributors to the Open Source community is interested in helping the software be maintained and supported. Having companies, such as IBM, support the evolution of Open Source software helps to keep the Open Source community striving for enterprise grade open source solutions. Lately, companies are working on deciphering how to take advantage of Enterprise and Community Open Source to implement in their enterprises. The business case for open source software is no longer a mystery and no surprise that most of the new positions in IT enterprises are related to open source projects. The ability of a large enterprise to manage this sort of implementations is to engage in a hypertrophied cooperation, where the ability to not only cooperate with teams and people outside your organization, but also to find new ways of working together and devise new ways to improve the software and its code. A goal for this publication is to help the client's journey into the open source space and implement a private Cloud Container-based architecture with the ability to manage the entire IT Service Management processes from the open source framework. This publication describes the architecture and implementation details of the solution. Although not every piece of this solution is documented here, this book does provide instructions for what was achieved incorporating open source technologies. Moreover, with this publication, the team shares their collaboration experiences working in a team of technologists, open source developers, Red Hat, and the open source community. This publication is for designers, developers, managers, and anyone who is considering starting a Cloud open source project, or users who started that journey. This book also can be a manual to guide the implementation of a technical viable architecture and help those enterprises participate in an open source project but have not done so before. The reader must be familiar with principles in programming and basic software engineering concepts, such as source code, compilers, and patches. The Installation and Configuration Guide includes information to install and configure MicroStrategy products on Windows, UNIX and Linux platforms, as well as basic maintenance guidelines.

Liferay Portal is the leading open-source enterprise portal framework that uses Java and Web 2.0 technologies. Web portals often function as a point of access to information on the World Wide Web. Web portals, such as Yahoo!, present information from diverse sources in a unified way. Aside from the search engine standard, web portals offer other services such as e-mail, news, stock prices, infotainment, and various other features. Portals provide a means for enterprises to supply a consistent look and feel with access control and procedures for multiple applications that otherwise would have been separate entities altogether. So, how do developers bring existing applications, as well as integrate content management systems and search engines, into a portal? And how do developers get started with the Liferay Portal engine? In *Practical Liferay: Java-based Portal Applications Development*, Dr. Poornachandra Sarang answers these questions and more. This book is for those who want to learn how to use Liferay to develop vertical or company-specific web portals and beyond. The book will serve as a practical guide to learning Liferay and developing real-world web portals.

A practical guide to adopting portal development best practices in an Enterprise world About This Book- Discover the new features and

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updates in Liferay including the concept of CMS, and collaboration applications with relevant examples and screenshots- Set up the navigation structure for the Enterprise intranet- Full of illustrations, diagrams, clear step-by-step instructions, and practical examples to show you the integration between different applications such as LDAP, SSO, and Liferay Social OfficeWho This Book Is ForThis book is for anyone who is interested in the Liferay Intranet Portal. This book is for both beginners and more experienced portal developers who need to create an enterprise intranet portal for their business. It will be handy for IT professionals who know the basics of how the portal technology works and need to integrate different open source technologies.What You Will Learn- Be introduced to the all new features of Liferay 6.2- Understand the different controls/actions to make the portal work for an Enterprise- Manage users, organizations, sites, user groups, and roles and also set up portal permissions- Set up a forum and get detailed descriptions of categorization, tagging, and Asset Publisher- Enable Wiki to share knowledge among users and create new dynamic data list and poll portlets- Handle federated search and OpenSearch and deploy search-based portlets- Implement web content management with a different approach in the portal- Employ community tools such as invitations, bookmarks, page comments, and page ratings- Manage Liferay's document and media portletIn DetailTo develop an intranet portal for an Enterprise, Liferay is the only open-source portal development platform that has a high scale graph for the developer to extend any component. It provides high end integration with other applications. By using this book, both beginners and more experienced users will be able to create an intranet portal easily.This book will be your pocket reference to Liferay. It will explain to you the new features of Liferay, including Liferay Sync and the Recycle Bin. It will help you to integrate with other key applications such as LDAP, SSO, and Alfresco 4.x and above. You will be introduced to documents, web content, and image management. You will move onto Liferay Sync's new tool to synchronize documents and media files to the local system. You'll discover the Market Place, the newest feature of Liferay. Liferay Social Office and its integrations are also thoroughly explained.This book is packed with practical examples that will help you to develop an intranet portal quickly and easily.Style and approachClear step-by-step instructions to develop an intranet portal for Enterprise. It describes new features and updates in Liferay with clear explanations, and is complete with images, tips, and tricks.

The Liferay Portal Administrator's Guide is your complete guide to installing, integrating, configuring, and maintaining Liferay Portal. This comprehensive guide will show you how to install Liferay Portal, configure it for your use, and maintain your Liferay-powered site on a day-to-day basis. From installing a bundle to creating your users; from managing site security to administering message boards; from integrating single sign-on to configuring a Liferay cluster, every aspect of running Liferay Portal is covered.

Annotation Liferay portal is a leading horizontal portal product, written in Java. It has the power to provide the intranets and extranets of large corporations. Liferay will allow you to build your companys portal quickly, efficiently, and in a custom way to suit the needs of your corporation.Liferay Beginners Guide will show you how to set up your own site from scratch. Most books assume that you have knowledge of portals before working with Liferay and so include more theory than practice. However, only enthusiasm is required for reading this book as the step-by-step instructions, which follow the creation of a sample community site, will make it easy to install and configure Liferay, set up a Liferay portal instance, and use the out-of-the-box portlets of Liferay.By following the logical flow of the chapters and the creation of the sample site, you will set up your Liferay site in several quick and easy stages. You will start by installing Liferay in your application server or servlet container of choice. You will learn how to customize the look and feel of the portal, change the URL of the site and create your own communities and organizations within the portal, then add users to them. By the end of the book, you will have a fully operational Liferay portal and the confidence to maintain and customize it to meet your needs.

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This book highlights state-of-the-art research, development and implementation efforts concerning social media in government services, bringing together researchers and practitioners in a number of case studies. It elucidates a number of significant challenges associated with social media specific to government services, such as: benefits and methods of assessing; usability and suitability of tools, technologies and platforms; governance policies and frameworks; opportunities for new services; integrating social media with organisational business processes; and specific case studies. The book also highlights the range of uses and applications of social media in the government domain, at both local and federal levels. As such, it offers a valuable resource for a broad readership including academic researchers, practitioners in the IT industry, developers, and government policy- and decision-makers.

Develop Java enterprise applications to meet the emerging digital standards using Java EE 7 About This Book Build modern Java EE web applications that insert, update, retrieve, and delete customer data with up-to-date methodologies Delve into the essential JavaScript programming language and become proficient with front-end technologies that integrate with the Java platform Learn about JavaServer Faces, its lifecycle, and custom tags, and build exciting digital applications with the aid of handpicked, real-world examples Who This Book Is For If you are a professional Java engineer and want to develop well-rounded and strong Java Web Development skills, then this book is for you. What You Will Learn Understand and apply updated JavaServer Faces key features including HTML5 support, resource library constructs, and pass through attributes Build web applications that conform to digital standards and governance, and leverage the Java EE 7 web architecture Construct modern JSF Forms that apply validation, add AJAX for immediate validation, and write your own validators Augment a traditional web application with JSF 2.2 Flow Beans and Flow Scope Beans Program single page applications including AngularJS, and design Java RESTful back-end services for integration Utilize modern web frameworks such as Bootstrap and Foundation in your JSF applications Create your own JSF custom components that generate reusable content for your stakeholders and their businesses In Detail Digital Java EE 7 presents you with an opportunity to master writing great enterprise web software using the Java EE 7 platform with the modern approach to digital service standards. You will first learn about the lifecycle and phases of JavaServer Faces, become completely proficient with different validation models and schemes, and then find out exactly how to apply AJAX validations and requests. Next, you will touch base with JSF in order to understand how relevant CDI scopes work. Later, you'll discover how to add finesse and pizzazz to your digital work in order to improve the design of your e-commerce application. Finally, you will deep dive into AngularJS development in order to keep pace with other popular choices, such as Backbone and Ember JS. By the end of this thorough guide, you'll have polished your skills on the Digital Java EE 7 platform and be able to creat exiting web application. Style and approach This book takes a step-by-step and detailed approach, coaching you through real-world scenarios. The book's style is designed for those who enjoy a thorough educational approach.

This book constitutes the refereed proceedings of the First Joint International Workshop on Statistical Atlases and Computational Models of the Heart and Cardiac Electrophysiological Simulation Challenge, STACOM-CESC 2010, held in conjunction with MICCAI 2010, in Beijing, China, in September 2010. The 27 revised full papers presented together with 3 keynote presentations were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on methods and infrastructure for atlas construction, structure and flow, mechanics and motion, electrophysiology and electrical activation, and computational electrophysiological simulation challenge.

This book contains revised papers from the 17th International Conference on Enterprise Information Systems, ICEIS 2015, held in Barcelona, Spain, in April 2015. The 31 papers presented in this volume were carefully reviewed and selected from a total of 327 submissions. The book also contains one full-paper invited talk. The selected papers reflect state-of-the-art research that is oriented toward real-world applications

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and highlight the benefits of information systems and technology for industry and services. They are organized in topical sections on databases and information systems integration, artificial intelligence and decision support systems, information systems analysis and specification, software agents and Internet computing, human-computer interaction, and enterprise architecture.

Summary Liferay in Action is a comprehensive and authoritative guide to building portals on the Liferay 6 platform. Fully supported and authorized by Liferay, this book guides you smoothly from your first exposure to Liferay through the crucial day-to-day tasks of building and maintaining an enterprise portal that works well within your existing IT infrastructure. About the Technology A portal is a website built around a collection of components that request, display, and share information. Liferay Portal 6, an enterprise-ready development platform, makes it a snap to build portals that integrate with your existing backend systems and provide a rich interactive user experience. Because Liferay uses standard Java and JavaScript, along with built-in SOAP and JSON support for web services, developers can be productive immediately. And since it's available in both a free, open source version as well as a fully-supported commercial edition, it's an affordable solution for almost any business or organization About the Book Liferay in Action is the official guide to building Liferay portal applications using Java and JavaScript. If you've never used Liferay before, don't worry. This book starts with the basics: setting up your development environment and creating a working portal. Then, it builds on that foundation to help you discover social features, tagging, ratings, and more. You'll also explore the Portlet 2.0 API, and learn to create custom themes and reusable templates. Experienced developers will learn how to use new Liferay APIs to build social and collaborative sites, use the message bus and workflow, implement indexing and search, and more. This book was developed in close collaboration with Liferay engineers, so it answers the right questions, and answers them in depth. No experience with Liferay or the Portlets API is required, but basic knowledge of Java and web technology is assumed. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Complete coverage of Liferay Portal 6 Covers both the commercial and open source versions Custom portlet development using the Portlet 2.0 spec Liferay's social network API Add functionality with hooks and Ext plugins ===== Table of Contents PART 1 WORKING WITH LIFERAY AND PORTLETS The Liferay difference Getting started with the Liferay development platform PART 2 WRITING APPLICATIONS ON LIFERAY'S PLATFORM A data-driven portlet made easy MVC the Liferay way Designing your site with themes and layout templates Making your site social Enabling user collaboration PART 3 CUSTOMIZING LIFERAY Hooks Extending Liferay effectively A tour of Liferay APIs

This book focuses on teaching by example. Every chapter provides an overview, and then dives right into hands-on examples so you can see and play with the solution in your own environment. This book is for Java developers who don't need any prior experience with Liferay portal. Although Liferay portal makes heavy use of open source frameworks, no prior experience of using these is assumed.

Get to grips with a new technology, understand what it is and what it can do for you, and then get to work with the most important features and tasks. A simple Starter approach towards understanding significant areas of portals such as content management, document management, and collaboration. It also provides an overview of Liferay concepts and terminologies. Instant Liferay Portal 6 Starter is great for new users who want to know what Liferay is all about. It will quickly give them an overview about Liferay Portal and its features. It is also good for those who want to analyze whether Liferay is fit for their requirements and are interested in what unique features Liferay can offer. Complete proceedings of the 2nd European Conference on Social Media Porto Portugal Published by Academic Conferences and Publishing International Limited

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A step-by-step tutorial on implementing Liferay- based portals to learn performance best practices. The book is good for Liferay portal developers and architects who want to learn performance best practices for implementing Liferay- based solutions. It is assumed that you have a working knowledge of the Liferay portal.

[Informatique].

Build your own secure enterprise or home penetration testing lab to dig into the various hacking techniques About This Book Design and build an extendable penetration testing lab with wireless access suitable for home and enterprise use Fill the lab with various components and customize them according to your own needs and skill level Secure your lab from unauthorized access and external attacks Who This Book Is For If you are a beginner or a security professional who wishes to learn to build a home or enterprise lab environment where you can safely practice penetration testing techniques and improve your hacking skills, then this book is for you. No prior penetration testing experience is required, as the lab environment is suitable for various skill levels and is used for a wide range of techniques from basic to advance. Whether you are brand new to online learning or you are a seasoned expert, you will be able to set up your own hacking playground depending on your tasks. What You Will Learn Determine your needs and choose the appropriate lab components for them Build a virtual or hardware lab network Imitate an enterprise network and prepare intentionally vulnerable software and services Secure wired and wireless access to your lab Choose a penetration testing framework according to your needs Arm your own wireless hacking platform Get to know the methods to create a strong defense mechanism for your system In Detail Starting with the basics of wireless networking and its associated risks, we will guide you through the stages of creating a penetration testing lab with wireless access and preparing your wireless penetration testing machine. This book will guide you through configuring hardware and virtual network devices, filling the lab network with applications and security solutions, and making it look and work like a real enterprise network. The resulting lab protected with WPA-Enterprise will let you practice most of the attack techniques used in penetration testing projects. Along with a review of penetration testing frameworks, this book is also a detailed manual on preparing a platform for wireless penetration testing. By the end of this book, you will be at the point when you can practice, and research without worrying about your lab environment for every task. Style and approach This is an easy-to-follow guide full of hands-on examples and recipes. Each topic is explained thoroughly and supplies you with the necessary configuration settings. You can pick the recipes you want to follow depending on the task you need to perform. The Installation and Configuration Guide includes information to install and configure MicroStrategy products on Windows, UNIX, Linux, and HP platforms, as well as basic maintenance guidelines.

This book is a practical guide with a very user-friendly approach. The author has taken a virtual enterprise as an example

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and has used the features of Liferay to build a corporate intranet for that enterprise. This book is for system administrators or experienced users (not necessarily programmers) who want to install and use Liferay in their teams or businesses without dealing with complex code. Prior knowledge of Liferay is not expected for this book.

If you are a Java developer or administrator with a technical background and want to install and configure Liferay Portal as an enterprise intranet, this is the book for you. In short, reusable recipes help you realize business goals as working features in Liferay. This book will also give you useful hints on how to easily improve the default functionality of the system and its performance.

The Liferay Portal Administrator's Guide is your complete guide to installing, integrating, configuring, and maintaining Liferay Portal. This comprehensive guide will show you how to install Liferay Portal, configure it for your use, and maintain your Liferay-powered site on a day-to-day basis. From installing a bundle to configuring a Liferay cluster, every aspect of running Liferay Portal is covered. This newly-updated guide is your roadmap to a successful implementation of Liferay Portal. Now covering Liferay Portal 5.1 and below, this book contains the information you need to keep your portal environment running smoothly.

Part of Packt's Beginner's Guide series, each chapter follows the creation of a fictional neighbourhood site to demonstrate an aspect of Liferay portal with practical examples, screenshots, and step-by-step instructions. All you need in order to benefit from the Liferay Beginner's Guide is programming experience. No prior knowledge of Liferay is required, although experienced Liferay portal programmers who need to get up to speed with its latest features will also find this book useful.

This book constitutes the proceedings of the 11th International Conference on Web Information Systems Engineering, WISE 2010, held in Hong Kong, China, in December 2010. The 32 revised full papers and 19 revised short papers presented together with 4 keynote talks were carefully reviewed and selected from 170 submissions. The papers are organized in topical sections on web service, social networks, web data mining, keyword search, web data modeling, recommender systems, RDF and web data processing, XML and query languages, web information systems, and information retrieval and extraction.

The book describes the science gateway building technology developed in the SCI-BUS European project and its adoption and customization method, by which user communities, such as biologists, chemists, and astrophysicists, can build customized, domain-specific science gateways. Many aspects of the core technology are explained in detail, including its workflow capability, job submission mechanism to various grids and clouds, and its data transfer mechanisms among several distributed infrastructures. The book will be useful for scientific researchers and IT professionals engaged in the development of science gateways.

Prepare for the Pivotal Certified Spring Web Application Developer exam and learn about Spring MVC DispatcherServlet configuration, Spring MVC programming model essentials, Spring MVC views and form processing, Spring Web Flow essentials,

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and Spring Web Flow actions and configuration. The Pivotal Certified Spring Web Application Developer Exam: A Study Guide is the ideal preparation for the exam and after reading and using it, you'll be able to pass and become a certified Spring Web Developer. When you become a Pivotal Certified Spring Web Application Developer, you'll receive one of the most valuable credentials available in enterprise Java. Achieving this certification demonstrates your ability to apply Spring's web projects to develop real-world Java web applications and validates your familiarity with Spring Web.

The Liferay Portal Administrator's Guide is your complete guide to installing, integrating, configuring, and maintaining a Liferay Portal server. This comprehensive guide will show you how to bring up a Liferay Portal server and keep it running. From installing a bundle to configuring a Liferay cluster, every aspect of running Liferay Portal is covered.

Accelerate your enterprise search engine and bring relevancy in your search analytics Key Features A practical guide in building expertise with Indexing, Faceting, Clustering and Pagination Master the management and administration of Enterprise Search Applications and services seamlessly Handle multiple data inputs such as JSON, xml, pdf, doc, xls,ppt, csv and much more. Book Description Apache Solr is the only standalone enterprise search server with a REST-like application interface. providing highly scalable, distributed search and index replication for many of the world's largest internet sites. To begin with, you would be introduced to how you perform full text search, multiple filter search, perform dynamic clustering and so on helping you to brush up the basics of Apache Solr. You will also explore the new features and advanced options released in Apache Solr 7.x which will get you numerous performance aspects and making data investigation simpler, easier and powerful. You will learn to build complex queries, extensive filters and how are they compiled in your system to bring relevance in your search tools. You will learn to carry out Solr scoring, elements affecting the document score and how you can optimize or tune the score for the application at hand. You will learn to extract features of documents, writing complex queries in re-ranking the documents. You will also learn advanced options helping you to know what content is indexed and how the extracted content is indexed. Throughout the book, you would go through complex problems with solutions along with varied approaches to tackle your business needs. By the end of this book, you will gain advanced proficiency to build out-of-box smart search solutions for your enterprise demands. What you will learn Design schema using schema API to access data in the database Advance querying and fine-tuning techniques for better performance Get to grips with indexing using Client API Set up a fault tolerant and highly available server with newer distributed capabilities, SolrCloud Explore Apache Tika to upload data with Solr Cell Understand different data operations that can be done while indexing Master advanced querying through Velocity Search UI, faceting and Query Re-ranking, pagination and spatial search Learn to use JavaScript, Python, SolrJ and Ruby for interacting with Solr Who this book is for The book would rightly appeal to developers, software engineers, data engineers and database architects who are building or seeking to build enterprise-wide effective search engines for business intelligence. Prior experience of Apache Solr or Java programming is must to take the best of this book. This book constitutes the refereed proceedings of the 8th European Conference on Technology Enhanced Learning, EC-TEL 2013, held in Paphos, Cyprus, in September 2013. The 31 full papers, 18 short papers, 14 demonstrations and 29 posters

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presented were carefully reviewed and selected from 194 submissions. The papers are organized in topical sections. The topics addressed include open educational resources (OER), massive open online courses (MOOC), schools of the future, orchestration of learning activities, learning networks, teacher networks, bring your own device (BYOD), social media, learning analytics, personalization, mobile learning, computer-supported collaborative learning, game-based and simulation-based learning, and learning design.

The digitization of healthcare has become almost ubiquitous in recent years, spreading from healthcare organizations into the homes and personal appliances of practically every citizen. Thanks to the collective efforts of health professionals, patients and care providers as well as systems developers and researchers, the entire population of Europe is able to participate in and enjoy the benefits of digitized health information. This book presents the proceedings of the 26th Medical Informatics in Europe Conference (MIE2015), held in Madrid, Spain, in May 2015. The conference brings together participants who share their latest achievements in biomedical and health Informatics, including the role of the user in digital healthcare, and provides a forum for discussion of the inherent challenges to design and adequately deploy ICT tools, the assessment of health IT interventions, the training of users and the exploitation of available information and knowledge to further the continuous and ubiquitous availability and interoperability of medical information systems. Contributions address methodologies and applications, success stories and lessons learned as well as an overview of on-going projects and directions for the future. The book will be of interest to all those involved in the development, delivery and consumption of health and care information.

Quick and easy techniques to build, deploy, and maintain your own Liferay portal Detailed steps for installing Liferay portal and getting it running, for people with no prior experience of building portals Follow the example of building a neighbourhood site with pre-installed portlets and custom portlets Create your own communities, organizations and user groups, and learn how to add users to them In Detail Liferay portal is a leading horizontal portal product, written in Java. It has the power to provide the intranets and extranets of large corporations. Liferay will allow you to build your company's portal quickly, efficiently, and in a custom way to suit the needs of your corporation. Liferay Beginner's Guide will show you how to set up your own site from scratch. Most books assume that you have knowledge of portals before working with Liferay and so include more theory than practice. However, only enthusiasm is required for reading this book as the step-by-step instructions, which follow the creation of a sample community site, will make it easy to install and configure Liferay, set up a Liferay portal instance, and use the out-of-the-box portlets of Liferay. By following the logical flow of the chapters and the creation of the sample site, you will set up your Liferay site in several quick and easy stages. You will start by installing Liferay in your application server or servlet container of choice. You will learn how to customize the look and feel of the portal, change the URL of the site and create your own communities and organizations within the portal, then add users to them. By the end of the book, you will have a fully operational Liferay portal and the confidence to maintain and customize it to meet your needs.

Any competent librarian can have good accounting skills—after all, attention to detail, correct classification, and effective

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documentation are essential to both kinds of tasks. This book covers accounting concepts, budgeting, and government regulations that pertain to libraries.

Customizing Alfresco with actions, web scripts, web forms, workflows, and more

A practical guide to adopting portal development best practices in an Enterprise world About This Book Discover the new features and updates in Liferay including the concept of CMS, and collaboration applications with relevant examples and screenshots Set up the navigation structure for the Enterprise intranet Full of illustrations, diagrams, clear step-by-step instructions, and practical examples to show you the integration between different applications such as LDAP, SSO, and Liferay Social Office Who This Book Is For This book is for anyone who is interested in the Liferay Intranet Portal. This book is for both beginners and more experienced portal developers who need to create an enterprise intranet portal for their business. It will be handy for IT professionals who know the basics of how the portal technology works and need to integrate different open source technologies. What You Will Learn Be introduced to the all new features of Liferay 6.2 Understand the different controls/actions to make the portal work for an Enterprise Manage users, organizations, sites, user groups, and roles and also set up portal permissions Set up a forum and get detailed descriptions of categorization, tagging, and Asset Publisher Enable Wiki to share knowledge among users and create new dynamic data list and poll portlets Handle federated search and OpenSearch and deploy search-based portlets Implement web content management with a different approach in the portal Employ community tools such as invitations, bookmarks, page comments, and page ratings Manage Liferay's document and media portlet In Detail To develop an intranet portal for an Enterprise, Liferay is the only open-source portal development platform that has a high scale graph for the developer to extend any component. It provides high end integration with other applications. By using this book, both beginners and more experienced users will be able to create an intranet portal easily. This book will be your pocket reference to Liferay. It will explain to you the new features of Liferay, including Liferay Sync and the Recycle Bin. It will help you to integrate with other key applications such as LDAP, SSO, and Alfresco 4.x and above. You will be introduced to documents, web content, and image management. You will move onto Liferay Sync's new tool to synchronize documents and media files to the local system. You'll discover the Market Place, the newest feature of Liferay. Liferay Social Office and its integrations are also thoroughly explained. This book is packed with practical examples that will help you to develop an intranet portal quickly and easily. Style and approach Clear step-by-step instructions to develop an intranet portal for Enterprise. It describes new features and updates in Liferay with clear explanations, and is complete with images, tips, and tricks.

A practical guide to building a complete corporate intranet with Liferay.

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