

Community Experience Distilled

# Alfresco for Administrators

A fast-paced administrators' guide to Alfresco from the administration, managing, and high-level design perspectives





Vandana Pal

## Alfresco for Administrators

A fast-paced administrator's guide to Alfresco from the administration, managing, and high-level design perspectives

Vandana Pal



#### Alfresco for Administrators

Copyright © 2016 Packt Publishing

All rights reserved. No part of this book may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without the prior written permission of the publisher, except in the case of brief quotations embedded in critical articles or reviews.

Every effort has been made in the preparation of this book to ensure the accuracy of the information presented. However, the information contained in this book is sold without warranty, either express or implied. Neither the author, nor Packt Publishing, and its dealers and distributors will be held liable for any damages caused or alleged to be caused directly or indirectly by this book.

Packt Publishing has endeavored to provide trademark information about all of the companies and products mentioned in this book by the appropriate use of capitals. However, Packt Publishing cannot guarantee the accuracy of this information.

First published: April 2016

Production reference: 1250416

Published by Packt Publishing Ltd. Livery Place 35 Livery Street Birmingham B3 2PB, UK.

ISBN 978-1-78217-503-2

www.packtpub.com

#### Credits

Author Vandana Pal Copy Editor Safis Editing

Reviewers Johnny Gee Piergiorgio Lucidi

Giuseppe Urso

Commissioning Editor Dipika Gaokar

Acquisition Editor Rahul Nair

Content Development Editor Mayur Pawanikar

Technical Editor Anushree Arun Tendulkar Project Coordinator Nidhi Joshi

Proofreader Safis Editing

Indexer Rekha Nair

Production Coordinator Aparna Bhagat

Cover Work Aparna Bhagat

#### About the Author

**Vandana Pal** is a software engineer and author. She currently works as senior consultant at CIGNEX Datamatics.

She has extensive experience working with Enterprise Digital Asset Management and Content Management Systems. She has worked with various deployments of Alfresco in various domains, such as media, finance, and healthcare, for different organizations across the world. She has hands-on experience working with architecture design, performance tuning, security implementation, integration, and the orchestration of complex workflows in Alfresco.

She has more than 7 years of experience in software engineering. Her journey in this field began when she started working with different open source technologies and found them interesting. She holds a bachelors of engineering degree in information technology from Gujarat University, India.

Vandana has also coauthored Alfresco 4 Enterprise Content Management Implementation.

I am grateful to Packt for providing this opportunity. I appreciate the guidance and help provided by Mayur Pawanikar while writing the book. Finally, I would like to thank my parents for always supporting and motivating me.

### About the Reviewers

**Johnny Gee** is the Director of Process Automation Solutions at Flatirons Solutions, Inc. In his role, he is responsible for architecting case management solutions for multiple clients across various industries. He has over 18 years of experience in the design and implementation of the ECM system, with a proven record of successful project implementations.

In addition to earning his undergraduate degree in aerospace engineering from the University of Maryland, Johnny achieved two graduate degrees: one in aerospace engineering from Georgia Institute of Technology and the other in information systems technology from George Washington University.

Johnny is an EMC-proven professional specialist in the application and development of content management, and he helped coauthor the EMC Documentum Server Programming certification exam. He has been invited to speak at both EMC World and Alfresco Summit.

Flatirons offers content lifecycle management solutions and services across a number of industries. Its solutions include enterprise software along with consulting and implementation services to help its clients identify, develop, and deploy the best solutions suited to their needs.

Johnny was the technical reviewer of Martin Bergljung's *Alfresco 3 Business Solutions* and Munwar Shariff's *Alfresco 3 Web Content Management*. He was also the technical reviewer for Pawan Kumar's *Documentum Content Management Foundations: EMC Proven Professional Certification Exam E20-120 Study Guide*.

**Piergiorgio Lucidi** works at Sourcesense as a technology master of enterprise information management. Sourcesense is a European open source systems integrator, providing consultancy, support, and other services for key open source technologies.

He is also an Alfresco Certified Instructor (ACI), Alfresco Certified Engineer (ACE), and Alfresco Certified Administrator (ACA).

He works as a mentor, technical leader, and software engineer and has 12 years of experience in the areas of enterprise content management (ECM), web content management (WCM), business process management (BPM), and system integrations. He is an expert at integrating EIM and ECM solutions in web applications as well as portal applications.

He regularly contributes to the Alfresco community as a global forum moderator and Alfresco wiki gardener, and during the Alfresco DevCon 2012 in Berlin, he was named an Alfresco Community Star.

He contributes to the Apache Software Foundation as a mentor, PMC member, and committer of Apache ManifoldCF, and he is the project leader of the CMIS, Alfresco, and ElasticSearch connectors. He is a project leader and committer of the JBoss community, and he contributed to some of the projects around the JBoss Portal/GateIn platform.

He is a speaker at conferences dedicated to Java, Spring Framework, open source products, and technologies related to the ECM and WCM world.

He is an author, technical reviewer, and affiliate partner at Packt Publishing. He wrote the technical books Alfresco 3 Web Services and GateIn Cookbook.

As technical reviewer, he has also contributed to books such as *Alfresco 3 Cookbook*, *Alfresco Share*, *Alfresco 4 Enterprise Content Management*, and *Learning Alfresco Web Scripts*.

As an affiliate partner, he also writes book reviews on his website, Open4Dev (http://www.open4dev.com/).

I would like to thank Packt Publishing for another great opportunity to contribute to a project dedicated to the Alfresco platform.

**Giuseppe Urso** is a software engineer with more than 10 years of extensive work experience in design and the agile development of service-oriented applications and distributed systems based on Java SE and Java EE.

He works in the IT industry as a senior systems architect and Java developer, handling responsibilities involving architecture design and the implementation of several large-scale projects based on Alfresco ECM and Liferay Portal.

He is an Alfresco Certified Administrator (ACA) and committer on the Alfresco-SDK project. His major areas of expertise include Amazon Web Services (AWS), Elastic Compute Cloud (EC2) technologies, and Message-Oriented Middleware (MOM).

Giuseppe earned his master's degree in computer engineering from the University of Salento, Italy. He is a licensed engineer and member of the professional engineers' association called Ordine degli Ingegneri della Provincia di Lecce.

He was the technical reviewer of the book *Liferay 6.x Portal Enterprise Intranets Cookbook* by *Packt Publishing*.

As an open source enthusiast, he share on Github, projects which make use of Java Cryptography Architecture (JCA), Apache ActiveMQ and Amazon AWS technologies (https://github.com/giuseppeurso-eu?tab=repositories).

He runs a personal blog at www.giuseppeurso.eu where he writes articles and useful guidelines on Java, Alfresco, Liferay, and practices of GNU/Linux systems administration.

## www.PacktPub.com

#### eBooks, discount offers, and more

Did you know that Packt offers eBook versions of every book published, with PDF and ePub files available? You can upgrade to the eBook version at www.PacktPub.com and as a print book customer, you are entitled to a discount on the eBook copy. Get in touch with us at customercare@packtpub.com for more details.

At www.PacktPub.com, you can also read a collection of free technical articles, sign up for a range of free newsletters and receive exclusive discounts and offers on Packt books and eBooks.



https://www2.packtpub.com/books/subscription/packtlib

Do you need instant solutions to your IT questions? PacktLib is Packt's online digital book library. Here, you can search, access, and read Packt's entire library of books.

#### Why subscribe?

- Fully searchable across every book published by Packt
- Copy and paste, print, and bookmark content
- On demand and accessible via a web browser

## Table of Contents

Preface	vi
Chapter 1: Understanding Alfresco	1
Overview of Alfresco	1
Enterprise and open source	2
Scalable	2
Rich media support	3
Secured system	3
Highly extensible	3
External integration	3
Collaboration	4
Business process management	4
Cloud-based ECM	5
Search	5
Version control	5
Auditing	5
Alfresco architecture overview	6
Alfresco Share	6
Alfresco repository	7
Filesystem protocol (CIFS/WebDAV/FTP)	8
Database	8
Content store	8
Solr indexes	8
Business use cases of Alfresco	9
Alfresco as a document management solution	9
Alfresco as a record management solution	g
Alfresco for collaboration	10
Summary	11