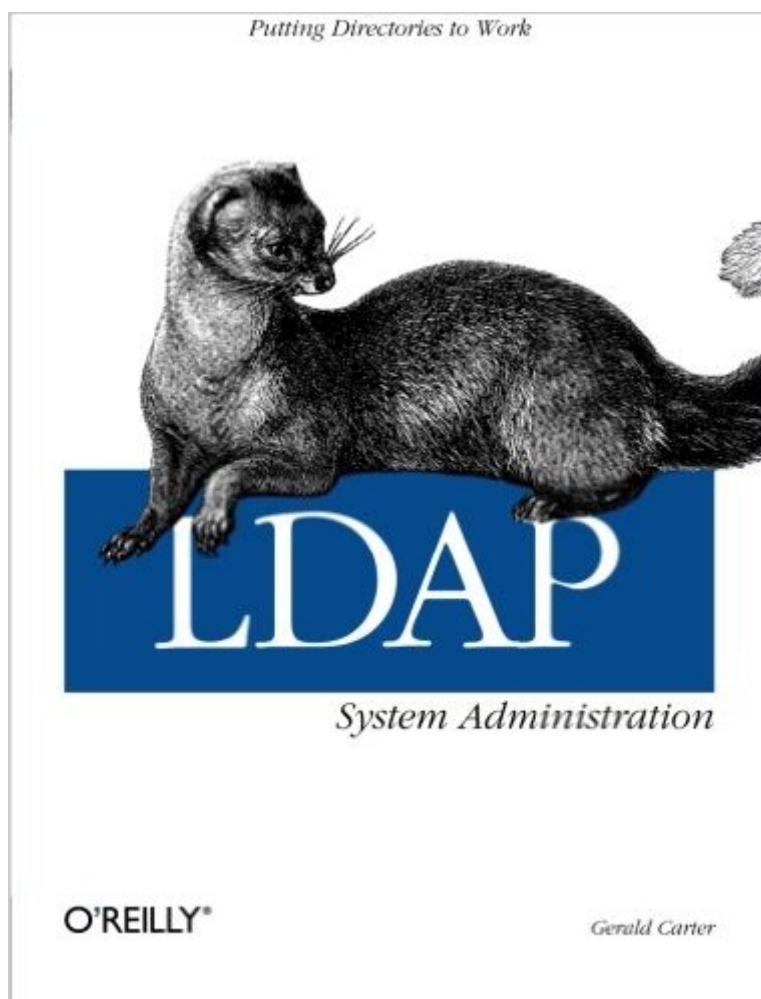


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# LDAP System Administration



## Synopsis

Be more productive and make your life easier. That's what LDAP System Administration is all about. System administrators often spend a great deal of time managing configuration information located on many different machines: usernames, passwords, printer configurations, email client configurations, and network filesystem configurations, to name a few. LDAPv3 provides tools for centralizing all of the configuration information and placing it under your control. Rather than maintaining several administrative databases (NIS, Active Directory, Samba, and NFS configuration files), you can make changes in only one place and have all your systems immediately "see" the updated information. Practically platform independent, this book uses the widely available, open source OpenLDAP 2 directory server as a premise for examples, showing you how to use it to help you manage your configuration information effectively and securely. OpenLDAP 2 ships with most Linux® distributions and Mac OS® X, and can be easily downloaded for most Unix-based systems. After introducing the workings of a directory service and the LDAP protocol, all aspects of building and installing OpenLDAP, plus key ancillary packages like SASL and OpenSSL, this book discusses: Configuration and access control; Distributed directories; replication and referral; Using OpenLDAP to replace NIS; Using OpenLDAP to manage email configurations; Using LDAP for abstraction with FTP and HTTP servers, Samba, and Radius; Interoperating with different LDAP servers, including Active Directory; Programming using Net::LDAP. If you want to be a master of your domain, LDAP System Administration will help you get up and running quickly regardless of which LDAP version you use. After reading this book, even with no previous LDAP experience, you'll be able to integrate a directory server into essential network services such as mail, DNS, HTTP, and SMB/CIFS.

## Book Information

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## Customer Reviews

First of all, be advised that this book only covers OpenLDAP. Although this was exactly what I was using, it makes more sense for the book to be retitled so as not to set the wrong expectations. Now, I'll talk about what this book does well. The book does an adequate job of explaining the whole installation process. It actually does miss the fact that when installing LDAP, you need to set two environment variables if your Berkeley DB location is non-standard. After a little searching, I found this on the web. Along these lines, it was good with explaining what your directory structure would look like after your install (which is helpful, as OpenLDAP blasts things all over the place) and how to start and stop the server. It also mentions various ways to set security levels and hashing techniques to make sure that your password is not stored in cleartext. So why only two stars? The overall theme of this book is that it is extremely light on information. If you're the kind of person that likes a little handholding, do NOT get this book! On almost every topic, you'll be left saying, "Okay, where's the next example on this topic?", only to be left hanging. Creating custom schemas was covered in TWO pages (pgs 95-97)! There's no mention of integrating LDAP with the various app servers out there today (Java Servlet/Bean containers, PHP, ASP, etc.). None! Again, I had to search the web to find out how to do this. This led me to binding errors that, once again, the book did not address. Again (this will be a recurring theme), I found the answers on the net. I hate to say it but there is nothing that this book provides that can not be found on the web very easily. It doesn't provide that golden nugget that you couldn't find anywhere else.

This excellent book covers implementing and administering LDAP better than any I have seen. It's apparent to me that a great deal of thought has gone into key paragraphs. Despite some comments to the contrary, the organization is methodical and logical. Throughout the book there are references to other sources to further research related topics. Chapter 1 LDAP is defined and you are pointed to the appropriate RFC's. Chapter 2 is an overview of the LDAPv3 and explains very well the format of the LDIF directory data/structure files. Incidentally, I found that this book enhanced my understanding of Microsofts Active Directory which encompasses among other things LDAPv3. Chapter 3 familiarizes you with the slapd.conf file and the example uses an SSHA hashed

rootpw (an OpenSSL algorithm) and introduces you to the use of ACL's in this server config file. Chapter 4 leads you through building a company white pages using the command line (which you certainly should know how to do even if you are a GUI fan); the chapter concludes with a brief list of GUI editors for the faint of heart. Chapter 5 explains replicating to a backup LDAP server with slurpd, enhanced backups using generated LDIF files and distributing the directory to maximize network traffic efficiency. Additions, deletions and modifications to the database are illustrated. Searching is briefly, but concisely explained. Chapter 6 begins Part II, application integration. The Pluggable Authentication module pam\_ldap and its configuration file, ldap.conf are discussed and there is a list of ldap.conf parameters with explanations. Replacing NIS with LDAP is covered in this chapter. Chapter 6 ends with a brief overview of security mechanisms in LDAPv3.

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