

OpenLDAP

OpenLDAP Lightweight Directory Access Protocol Server

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1. Overview

OpenLDAP: *OpenLDAP Lightweight Directory Access Protocol Server*

This is a minimal implementation of a service module to support deployment of the OpenLDAP "slapd" process.

The assumption is made that "slapd" will run as the ControlTier framework user on a non-standard, non-privileged port.

Additionally, the OpenLDAP package must be pre-installed on the system and the "slapd.conf" file manually configured. A future version of this module will no doubt generate this configuration file from model data and a template.

2. Design

Super Type Service

Role	Concrete. (Objects can be created.)
Instance Names	Unique
Notification	false
Template Directory	
Data View	Children, proximity: 1
Logger Name	

3. Constraints

3.1. Allowed Child Dependencies

- [OpenLDAPArgsFile](#) 1
- [OpenLDAPConfigFile](#) 1
- [OpenLDAPDirectory](#) 1
- [OpenLDAPPidFile](#) 1
- [OpenLDAPRootDn](#) 1
- [OpenLDAPRootPw](#) 1
- [OpenLDAPSuffix](#) 1
- [OpenLDAPTimeout](#) 1
- [OpenLDAPUrlList](#) 1

1: These types have a *Singleton* constraint. Only one instance may be added as a resource.

3.2. Allowed Parent Dependencies

- Node
- Site

4. Attributes

4.1. Exported Attributes

Name	Property	Description
basedir	deployment-basedir	Base directory location for "etc/openldap/slapd.conf" and other runtime files.
install-root	deployment-install-root	OpenLDAP installation directory locating "libexec/slapd".

4.2. Defaults for Imported Attributes

Name	Default	Description
argsFile	<code>\${entity.attribute.basedir}/var/run/slapd.args</code>	
configFile	<code>\${entity.attribute.basedir}/etc/slapd.conf</code>	
directory	<code>\${entity.attribute.basedir}/var/lib/ldap</code>	
pidFile	<code>\${entity.attribute.basedir}/var/run/slapd.pid</code>	
rootDn	<code>cn=Manager,dc=controltier,dc=com</code>	
rootPw	<code>secret</code>	
suffix	<code>dc=controltier,dc=com</code>	
timeout	<code>10</code>	Start/stop command default timeout in seconds.
urlList	<code>ldap://*:3890/</code>	Default URL list used to start "slapd" on a non-privileged port.

5. Commands

View the available commands in the [User Reference](#).

6. Related Types

The following types are defined for use with OpenLDAP.

6.1. OpenLDAPArgsFile

6.1.1. Overview

OpenLDAPArgsFile: *argsfile for opendlap*

6.1.2. Design

Super Type

[OpenLDAPSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.1.3. Constraints

6.1.3.1. Allowed Parent Dependencies

- [OpenLDAP](#)

6.1.4. Attributes

6.1.4.1. Exported Attributes

Name	Property
argsFile	settingValue

6.2. OpenLDAPConfigFile

6.2.1. Overview

OpenLDAPConfigFile: *OpenLDAP config file*

6.2.2. Design

Super Type

[OpenLDAPSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.2.3. Constraints

6.2.3.1. Allowed Parent Dependencies

- [OpenLDAP](#)

6.2.4. Attributes

6.2.4.1. Exported Attributes

Name	Property
configFile	settingValue

6.3. OpenLDAPDirectory

6.3.1. Overview

OpenLDAPDirectory: *openldap root password*

6.3.2. Design

Super Type

[OpenLDAPSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.3.3. Constraints

6.3.3.1. Allowed Parent Dependencies

- [OpenLDAP](#)

6.3.4. Attributes

6.3.4.1. Exported Attributes

Name	Property
directory	settingValue

6.4. OpenLDAPPidFile

6.4.1. Overview

OpenLDAPPidFile: *pidfile for openldap*

6.4.2. Design

Super Type

[OpenLDAPSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.4.3. Constraints

6.4.3.1. Allowed Parent Dependencies

- [OpenLDAP](#)

6.4.4. Attributes

6.4.4.1. Exported Attributes

Name	Property
pidFile	settingValue

6.5. OpenLDAPRootDn

6.5.1. Overview

OpenLDAPRootDn: *domain suffix for openldap*

6.5.2. Design

Super Type

[OpenLDAPSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.5.3. Constraints

6.5.3.1. Allowed Parent Dependencies

- [OpenLDAP](#)

6.5.4. Attributes

6.5.4.1. Exported Attributes

Name	Property
rootDn	settingValue

6.6. OpenLDAPRootPw

6.6.1. Overview

OpenLDAPRootPw: *openldap root password*

6.6.2. Design

Super Type

[OpenLDAPSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.6.3. Constraints

6.6.3.1. Allowed Parent Dependencies

- [OpenLDAP](#)

6.6.4. Attributes

6.6.4.1. Exported Attributes

Name	Property
rootPw	settingValue

6.7. OpenLDAPSetting

6.7.1. Overview

OpenLDAPSetting: *OpenLDAP configuration setting*

6.7.2. Design

Super Type
Setting

Role	Abstract. (Objects cannot be created.)
Instance Names	Unique

6.8. OpenLDAPSuffix

6.8.1. Overview

OpenLDAPSuffix: *domain suffix for opendlap*

6.8.2. Design

Super Type
[OpenLDAPSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.8.3. Constraints

6.8.3.1. Allowed Parent Dependencies

- [OpenLDAP](#)

6.8.4. Attributes

6.8.4.1. Exported Attributes

Name	Property
suffix	settingValue

6.9. OpenLDAPTimeout

6.9.1. Overview

OpenLDAPTimeout: *Startup and shutdown timeout period in seconds*

6.9.2. Design

Super Type

[OpenLDAPSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.9.3. Constraints

6.9.3.1. Allowed Parent Dependencies

- [OpenLDAP](#)

6.9.4. Attributes

6.9.4.1. Exported Attributes

Name	Property
timeout	settingValue

6.10. OpenLDAPUrlList

6.10.1. Overview

OpenLDAPUrlList: *Startup and shutdown timeout period in seconds*

6.10.2. Design**Super Type**[OpenLDAPSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.10.3. Constraints**6.10.3.1. Allowed Parent Dependencies**

- [OpenLDAP](#)

6.10.4. Attributes**6.10.4.1. Exported Attributes**

Name	Property
urlList	settingValue