

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

- [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
timeout	10	Start/stop command default timeout in seconds.
urlList	ldap://*:3890/	Default URL list used to start "slapd" on a non-privileged port.

5. Commands

Note:

Commandline options displayed in square brackets "[]" are optional. If an option expects arguments, then angle brackets are shown after the option "<>". Any default value is shown within the brackets.

5.1. assertServiceIsDown

Check whether the OpenLDAP "slapd" process is down

Usage

```
assertServiceIsDown [-basedir <>]
```

Options

Option	Description
basedir	Base directory

5.2. assertServiceIsUp

Check whether the OpenLDAP "slapd" process is up

Usage

```
assertServiceIsUp [-basedir <>]
```

Options

Option	Description
basedir	<i>Base directory</i>

5.3. startService

Start the OpenLDAP "slapd" process

Usage

```
startService [-basedir <>] [-installroot <>] [-timeout <>]
[-urllist <>]
```

Options

Option	Description
basedir	<i>Base directory</i>
installroot	<i>Installation directory</i>
timeout	<i>Timeout in seconds</i>
urllist	<i>List of URLs to serve</i>

5.4. stopService

Stop the OpenLDAP "slapd" process

Usage

```
stopService [-basedir <>] [-timeout <>]
```

Options

Option	Description
basedir	<i>Base directory</i>
timeout	<i>Timeout in seconds</i>

6. Related Types

The following types are defined for use with OpenLDAP.

6.1. OpenLDAPSetting

6.1.1. Overview

OpenLDAPSetting: *OpenLDAP configuration setting*

6.1.2. Design

Super Type Setting

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

6.2. OpenLDAPTimeout

6.2.1. Overview

OpenLDAPTimeout: *Startup and shutdown timeout period in seconds*

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
timeout	settingValue

6.3. OpenLDAPUrlList

6.3.1. Overview

OpenLDAPUrlList: *Startup and shutdown timeout period in seconds*

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
urlList	settingValue