



Symas OpenLDAP

How-To Guides

Configure LastBind

Why memorize the date of last authentication? Could this overlay be used to verify employees are actually connecting to the system and working? Sure, but real benefit (and practical purpose) is to identify accounts that are obsolete or have not been used to authenticate for several months.

Availability

The lastbind overlay was not included in Symas OpenLDAP Gold or Silver prior to 2.4.40.1. Please have a newer version installed to take advantage of this overlay.

Update slapd.conf

Add the following to the Modules portion of the global section of slapd.conf on Producer servers.

```
vi /opt/symas/etc/openldap/slapd.conf
moduleload lastbind.la
```

Add the following to the overlays for the MDB database section of slapd.conf on Producer servers.

```
overlay lastbind
lastbind-precision 60
```

Note: lastbind-precision is optional. Its value is in seconds, so this example would update the `authtimestamp` attribute for each user every minute.

Restart solserver (slapd)

```
sudo service solserver restart
```

For slapd.d Update cn=config

Add the following `olcModuleLoad` to `cn=module,cn=config` on Producer servers:

```
ldapmodify -x -H ldap://<producer FQDN> -D cn=config -w config
dn: cn=module{0},cn=config
changetype: modify
add: olcModuleload
olcModuleLoad: lastbind.la
```

Add the following `olcOverlay` to `olcDatabase=mdb,cn=config` on Producer servers:

```
ldapadd -x -H ldap://<producer FQDN> -D cn=config -w config
dn: olcOverlay=lastbind,olcDatabase={1}mdb,cn=config
objectClass: olcLastBindConfig
objectClass: olcOverlayConfig
objectClass: top
olcOverlay: lastbind
olcLastBindPrecision: 60
```

Database Content

Once the overlay is loaded and OpenLDAP restarted, upon any new authentication a date will be stored in the attribute `authTimestamp`.



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For example:

```
authtimestamp: 20120612073806Z
```

The `authtimestamp` is an operational attribute and it is not possible to change or add it to entries that already exist. Well, nothing is impossible.

OpenLDAP implemented relax control, which allows admins to perform administrative operations on the data such as changing operational attributes.

Create an LDIF

```
vi /tmp/authtimestamp.ldif
dn: uid=Coudot,ou=users,dc=example,dc=com
changetype: modify
replace: authtimestamp
authtimestamp: 20120511144318Z
```

Import the LDIF

```
ldapmodify -x -H ldap://<producer FQDN> -D dc=example,dc=com -w
secret -e \!relax -f authtimestamp.ldif
```