

OpenLDAP init Script

Source: <http://linux.derkeiler.com/Mailing-Lists/RedHat/2007-05/msg00241.html>

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 - *Date:* Wed, 23 May 2007 12:58:27 -0600
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I just wanted to point out what I would consider an implementation flaw in RH Version of OpenLDAP. It is both the same on RHEL4 and 5. In the LDAP init script provided by Red Hat (/etc/init.d/ldap) there is a problem with how the stop function shuts down running LDAP Directories. I have actually already have had database corruption on two systems because of this. Killproc is called without a signal, it defaults to -TERM and then -KILL. You can see this here:

Taken from killproc() in /etc/init.d/functions:

```
if [ -n "${pid:-}" ] ; then
[ "$BOOTUP" = "verbose" -a -z "$LSB" ] && echo -n "$base "
if [ "$notset" -eq "1" ] ; then
if checkpid $pid 2>&1; then
# TERM first, then KILL if not dead
kill -TERM $pid >/dev/null 2>&1
usleep 100000
if checkpid $pid && sleep 1 &&
checkpid $pid && sleep $delay &&
checkpid $pid ; then
kill -KILL $pid >/dev/null 2>&1
usleep 100000
fi
fi
checkpid $pid
RC=$?
[ "$RC" -eq 0 ] && failure "$base shutdown" ||
success "$base shutdown"
RC=$((! $RC))
# use specified level only
else
if checkpid $pid; then
kill $killlevel $pid >/dev/null 2>&1
RC=$?
[ "$RC" -eq 0 ] && success "$base
$killlevel" || failure "$base $killlevel"
fi
fi
else
```

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```
failure "$base shutdown"  
RC=1  
fi
```

/etc/init.d/ldap stop function

```
function stop() {  
# Stop daemons.  
prog=`basename ${slapd}`  
echo -n "$Stopping $prog: "  
killproc ${slapd}  
RETVAL=$?  
echo  
if [ $RETVAL -eq 0 ]; then  
if grep -q "^repllogfile" /etc/openldap/slapd.conf; then  
prog=`basename ${slurpd}`  
echo -n "$Stopping $prog: "  
killproc ${slurpd}  
RETVAL=$?  
echo  
fi  
fi  
[ $RETVAL -eq 0 ] && rm -f /var/lock/subsys/ldap /var/run/slapd.args  
return $RETVAL  
}
```

I am making the suggestion that Red hat change the default init script that is distributes with OpenLDAP to stop the directories with `-INT`. Like below:

```
function stop() {  
# Stop daemons.  
prog=`basename ${slapd}`  
echo -n "$Stopping $prog: "  
killproc ${slapd}  
RETVAL=$?  
echo  
if [ $RETVAL -eq 0 ]; then  
if grep -q "^repllogfile" /etc/openldap/slapd.conf; then  
prog=`basename ${slurpd}`  
echo -n "$Stopping $prog: "  
killproc ${slurpd} -INT  
RETVAL=$?  
echo  
fi  
fi  
[ $RETVAL -eq 0 ] && rm -f /var/lock/subsys/ldap /var/run/slapd.args  
return $RETVAL  
}
```

This will get rid of the issue of database corruption, when using `/etc/init.d/ldap`.

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If there is anyone else out there that has had similar problems, please speak up. You can fix this by changing to your database directory and running slapd_db_recover.

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Thx
Joshua Gimer

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