

Infrastructure - Story #2992

Generation of slapd configuration may cause LDAP replication trouble

2012-06-20 16:07 - Chris Jones

Status:	Closed	Start date:	2012-06-20
Priority:	Normal	Due date:	
Assignee:	Chris Jones	% Done:	100%
Category:	d1_cn_buildout	Estimated time:	0.00 hour
Target version:	Sprint-2012.29-Block.4.3		
Story Points:			

Description

When re-running slaptest on a CN using the /etc/ldap/slapd.conf file modified by the dataone-cn-os-core build script, the resulting configuration file in /etc/ldap/slapd.d/cn=config/olcDatabase={1}hdb.ldif may include the 'uri=""' string in the olcSyncrepl attribute value. This seems to only happen under slapd 2.4.21, not 2.4.20, and causes replication to fail. However, for the cn-stage environment, the 'uri=""' wasn't present. Removing that string from the olcSyncrepl value allowed syncrepl to work correctly. Investigate this further to pin down a consistent cause.

History

#1 - 2012-06-27 02:19 - Chris Jones

Even without this uri="" string, we're seeing syncrepl issues in the production environment. On June 26, 8:15 pm, while trying to update the CDL base url in ldap while connected to cn-ucsb-1 on port 389, the modification replicated to cn-orc-1, but not cn-unm-1. When trying the same modification against cn-unm-1, neither cn-ucsb-1 nor cn-orc-1 received the update. When making the change on cn-orc-1, it only replicated to cn-ucsb-1, not cn-unm-1. telnetting to each server from each server on port 389 is successful, so this isn't a firewall issue.

#2 - 2012-06-30 04:30 - Robert Waltz

- Milestone changed from CCI-1.0.2 to CCI-1.0.3

Due the the URI problem, slaptest should never be run without further commands being run. Below is a shell script that should be run as root to manually reconfigure LDAP :

```
#!/bin/bash
```

```
LDAP_USER=openldap  
LDAP_CONF=/etc/ldap
```

stop the default service

```
echo "Stopping slapd"  
/etc/init.d/slapd stop
```

start, using slapd.conf file

```
echo "Generating ldif config using: ${LDAP_CONF}/slapd.conf"  
  
rm -rf /etc/ldap/slapd.d/*  
slaptest -f /etc/ldap/slapd.conf -F /etc/ldap/slapd.d  
if [ -e ${LDAP_CONF}/slapd.d/cn=config/olcDatabase={1}hdb.ldif ]  
then  
sed -i.bak 's/uri=""/' ${LDAP_CONF}/slapd.d/cn=config/olcDatabase={1}hdb.ldif  
rm ${LDAP_CONF}/slapd.d/cn=config/olcDatabase={1}hdb.ldif.bak  
fi  
chown -R ${LDAP_USER}.${LDAP_USER} /etc/ldap/slapd.d  
  
echo "Starting slapd"  
/etc/init.d/slapd start
```

#3 - 2012-07-09 13:32 - Dave Vieglais

- Target version changed from *Sprint-2012.23-Block.3.4* to *Sprint-2012.29-Block.4.3*

#4 - 2012-07-26 18:40 - Chris Jones

- Status changed from *New* to *Closed*

Testing the generation of the slapd.d directory under version 2.4.21 showed that the uri="" string was not added to the config. slapd started fine. I'm going to close this bug since the behavior is as expected now. Tests were done on cn-dev-[ucsb|unm|orc]-1.test.dataone.org.