

IBM Operations Analytics Predictive Insights 1.3.3 Implementation and Configuration

Course Corrections Document

April 27, 2021

TN612G (Classroom)

About this document

This document contains information about issues that were encountered during deliveries of this course. These issues will be addressed in subsequent updates of the material.

You should review this document before the start of class, and use this list as the first point of reference if issues arise.



Student Exercises Guide items

LDAP self-signed SSL certificate fix

Symptoms

- No users except smadmin can log into DASH.
- The following messages are in /home/dsrdbm01/idsslapd-dsrdbm01/logs/ibmslapd.log (on the VM hosting the LDAP server):

GLPSSL019E The SSL layer has reported an unidentified internal error, SSL extended error code:10. GLPSRV004I Terminating server.

- The IBM LDAP server starts in configuration-only mode.
- The IBM LDAP administration server cannot start.

Cause

The SSL certificate that allows secure communication between LDAP and WebSphere Application Server is expired.

The password for the LDAP keystore database is also expired, although this is not directly pertinent.

Solution

Important: This document uses host1.tivoli.edu as an example host name. Use the actual host name in your environment where the LDAP server is running when you apply this fix.

Run the following steps on host1.tivoli.edu to recreate the SSL certificate.

- 1. Start the key management tool.
 - a. Open a terminal window on host1.tivoli.edu.
 - b. Run the following command to switch to the root user. The password is **object00**.

```
su - root
Password: object00
```

c. Run the following commands to start the Key Management tool.

```
cd /opt/ibm/ldap/V6.3.1/appsrv/bin/
```

./ikeyman.sh

- 2. Recreate the SSL certificate.
 - a. Click the **Open** icon.

| | IBM Ke |
|--|--------|
| Key Database <u>F</u> ile <u>C</u> reate <u>V</u> iew <u>H</u> elp | |
| | |
| DB-Type: File Name: Token Label: | Key |
| | Ke |

b. Open the IdapssIkey.kdb database. This database is in the /opt/ibm/Idap/V6.3.1/etc/ directory.

| () | Open | × |
|---------------------------|---------------------------|----------------|
| <u>K</u> ey database type | CMS 💌 | |
| <u>F</u> ile Name: | Idapssikey.kdb | <u>B</u> rowse |
| <u>L</u> ocation: | /opt/ibm/Idap/V6.3.1/etc | |
| | <u>O</u> K <u>C</u> ancel | |

c. Enter **object00** as the password.



d. Click **OK** on the password expired message.

| ſ | 🚇 Message 🤉 | × |
|---|------------------------------------|---|
| Г | The database password has expired. | ٦ |
| | | |
| | | |
| Ľ | | |
| | <u>M</u> ore >> | |
| - | | _ |
| | <u>o</u> k | |

e. Click **Yes** to change the password.



- f. Enter **object00** as the password.
- g. Enter object00 again to confirm.
- h. Select **Expiration time**.
- i. Enter **999** as the expiration time.
- j. Click **OK**.

| Password Prompt | × |
|---|---|
| Password: | |
| Co <u>n</u> firm Password: | |
| Expiration time 999 Days | |
| <u>O</u> K <u>R</u> eset <u>C</u> ancel | |

- k. Select the **IdapssIkey** certificate.
- I. Click Delete.

| oken Label: Key database c | ontent |
|-------------------------------|--------------------|
| - | |
| Personal Certificates | ▼ Rece <u>i</u> ve |
| Idapssikey | Delete |
| | Deret |
| | Vie <u>w</u> /Edit |
| | |

m. Click Yes to confirm.



n. Click New Self-Signed.

| , | |
|---|---------------------|
| | New Self-Signed |
| | Extract Certificate |

- o. Enter Idapssikey as the Key Label.
- p. Enter your host name as the Common Name, if it is not already present.
- q. Enter 999 as the Validity Period.
- r. Click OK.

| Į | Create New Sel | f-Signed Certificate × |
|---|---|------------------------------|
| ł | Please provide the following: | |
| | <u>K</u> ey Label | Idapsslkey |
| | Version | X509 V3 💌 |
| | K <u>e</u> y Size | 1024 💌 |
| | Signature Algorithm | SHA1WithRSA 💌 |
| | Co <u>m</u> mon Name (optional) | host1.tivoli.edu |
| | Organization (optional) | |
| | Org <u>a</u> nizational Unit (optional) | |
| | Locality (optional) | |
| | S <u>t</u> ate/Province (optional) | |
| | <u>Z</u> ipcode (optional) | |
| | Co <u>u</u> ntry or region (optional) | |
| | Val <u>i</u> dity Period | 999 Days |
| | Subject Alternative Names | |
| | Email A <u>d</u> dress (optional) | |
| | I <u>P</u> Address (optional) | |
| | D <u>N</u> S Name (optional) | |
| | <u>0</u> K | <u>R</u> eset <u>C</u> ancel |

s. Click Key Database File > Exit.



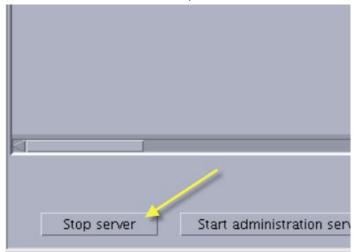
- 3. Start the LDAP server and the Administration server.
 - a. Run the following command to start the SDS Instance Administration tool.

/opt/ibm/ldap/V6.3.1/sbin/idsxinst

- b. Notice that the server state is **Started (config only)**.
- c. Click Start/Stop.

| вм | Secu | rity Dire | ctory Server Insta | nce Administrat | ion Tool _ 🗆 🗙 |
|-----|----------|-------------|-----------------------|--------------------|--------------------|
| ory | server i | nstances in | stalled on the system | | |
| nce | Type | Version | Server state | Administration ser | Create an instance |
| | | 6.3.1 | Started (Config o | Stopped | Create an instance |
| | | | | _ | Start/Stop |
| | | | | | <u>M</u> anage |
| | | | | | Migrate |

d. Click Stop server. After a moment, the server stops.



e. Click Start server. After a moment, the server starts.

| | | Clear results |
|--------------|-----------------------------|----------------------|
| Start server | Start administration server | <u>C</u> lose Help ? |

f. Click **OK** to confirm.

| k completed. | |
|--------------|--------------|
| ΟΚ | |
| | k completed. |

g. Click Start administration server. After a moment, the server starts.

| | | Clear results |
|--------------|-----------------------------|----------------------|
| Start server | Start administration server | <u>C</u> lose Help ? |

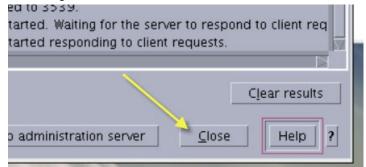
h. Click **OK** to confirm.

| * | Information | × |
|-----------|--------------------|---|
| GLPCFG092 | 2I Task completed. | |
| 4 | | |
| | <u>o</u> k | |

i. Confirm that the state of both servers is **Started**.

| hanage server state | | |
|-----------------------|---|--|
| Current State | | |
| Instance name | dsrdbm01 | |
| Description | IBM Security Directory Server Instance V6.3.1 | |
| Server state | Started | |
| Administration server | r state Started | |
| Start time | Elapsed time | |
| 7/19/17 12:38 PM | 0:0:1 | |
| Task massage | | |

j. Click **Close** to exit the Manage server state window.



k. Click **Close** to exit the SDS Instance Administration tool.

| ⊻iew |
|------------------------------|
| Copy local instance |
| Copy remote instance |
| <u>C</u> lose <u>He</u> lp ? |

Verification

Run the following steps to verify that the LDAP server is working properly.

1. Run the following two commands on **host1.tivoli.edu** as the root user to query the LDAP server.

cd /opt/ibm/ldap/V6.3.1/bin

```
./ldapsearch -v -D cn=root -w object00 -h host1.tivoli.edu -p 389 -b dc=ibm,dc=com uid=*
1.1
```

If the LDAP server is working correctly, the output of the preceding command should look like the following example.

```
uid=tcruser1, ou=tipusers, cn=tipRealm, dc=ibm, dc=com
uid=tcruser2, ou=tipusers, cn=tipRealm, dc=ibm, dc=com
uid=tipuser1, ou=tipusers, cn=tipRealm, dc=ibm, dc=com
uid=tipuser2, ou=tipusers, cn=tipRealm, dc=ibm, dc=com
uid=root, cn=tipRealm, dc=ibm, dc=com
cn=Tinisha Fowble, ou=tipusers, cn=tipRealm, dc=ibm, dc=com
...output omitted...
30 matches
```

- 2. Verify that the **ncoadmin** user can log in to DASH.
 - a. Go to the **host2.tivoli.edu** lab image, or to the image where DASH is running.
 - b. Open a Firefox browser within the lab image.
 - c. Go to the following URL. You might need to replace the fully qualified domain name (FQDN) in this example with the FQDN of the host where DASH is running.

https://host2.tivoli.edu:16311/ibm/console/logon.jsp

d. Log in with the user name ncoadmin and the password object00.

| | IBM Dashboard Application Services Hub |
|--------|---|
| | User ID |
| Marine | ncoadmin |
| | Password |
| | ••••• |
| | Go |

e. Verify that the **ncoadmin** user can log in to DASH.

Student Notebook items

None reported.

Course presentation items by unit

None reported.

End of document