

# 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.

<b>()</b>	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.



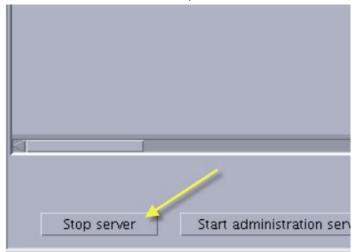
- 3. Start the LDAP server and the Administration server.
  - a. Run the following command to start the SDS Instance Administration tool.

/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 ?

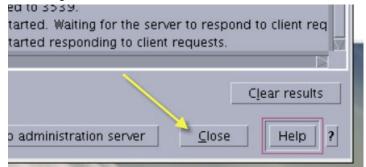
h. Click **OK** to confirm.

*	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.

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