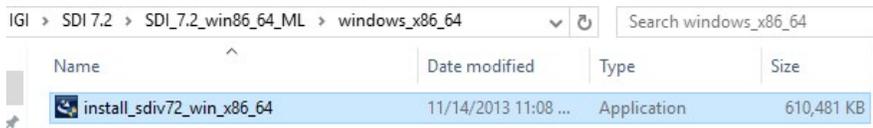


## Installing Security Directory Integrator 7.2

You can install Security Directory Integrator 7.2. using the **Security Directory Integrator** wizard. IBM IGI uses Security Directory Integrator to communicate with various managed resources.

### To install Security Directory Integrator 7.2:

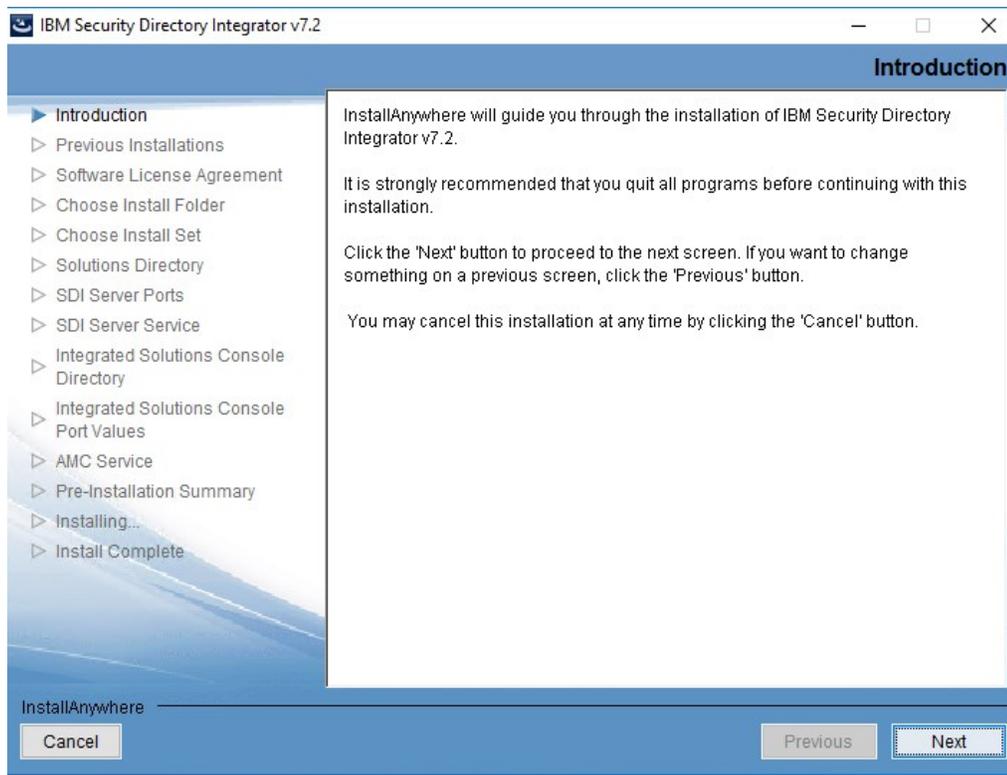
1. Go to the Security Directory Integrator 7.2 folder that you have downloaded from the IBM website.
2. Double-click the windows\_x86\_64 folder.



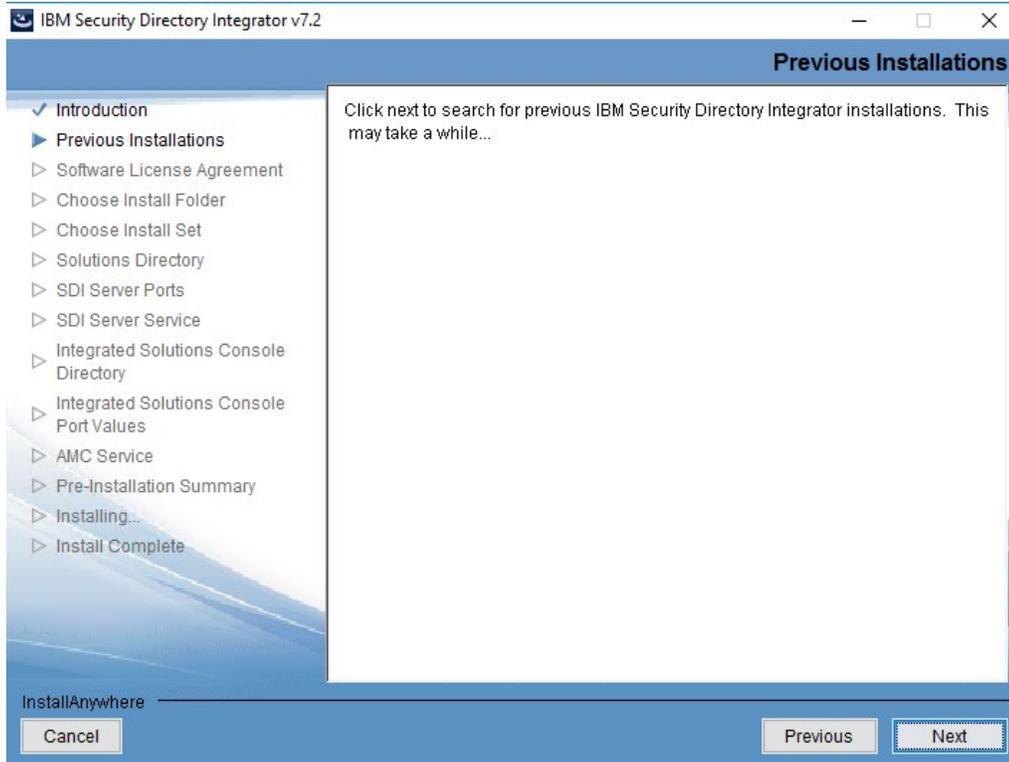
3. Run as administrator. The **User Account Control** dialog box appears.
4. Click **Yes** to run the setup. The **Security Directory Integrator wizard** appears.



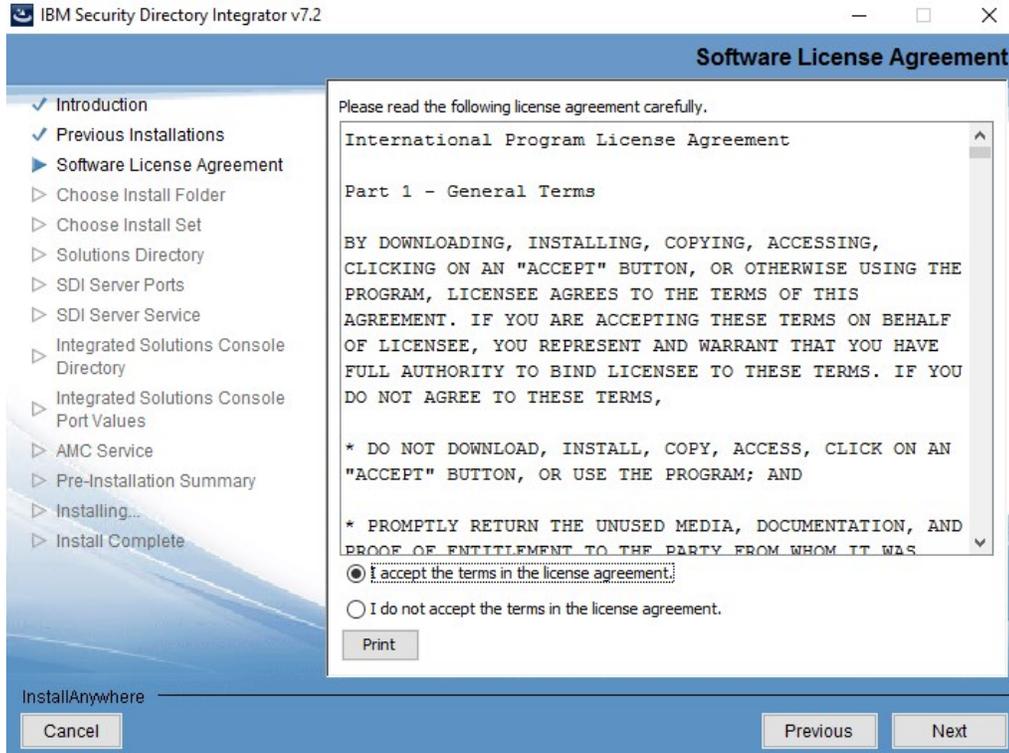
5. Click **OK**.
6. The **Introduction** panel appears.



7. Click **Next**.
8. The **Previous Installations** panel appears.

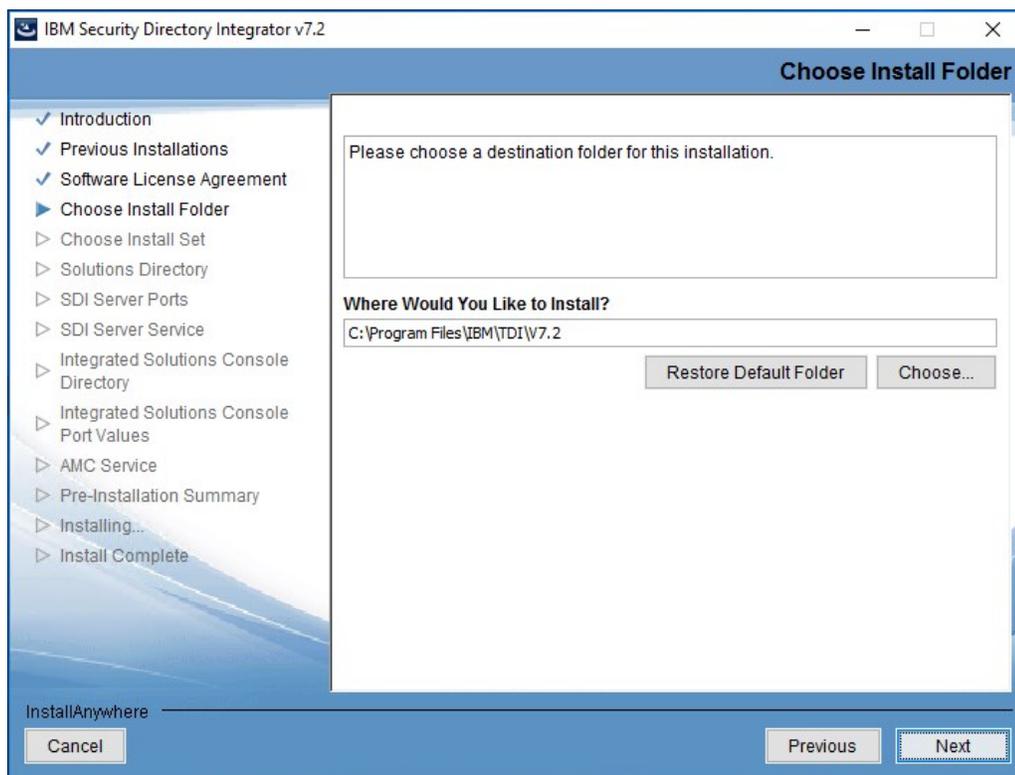


9. Click **Next**.



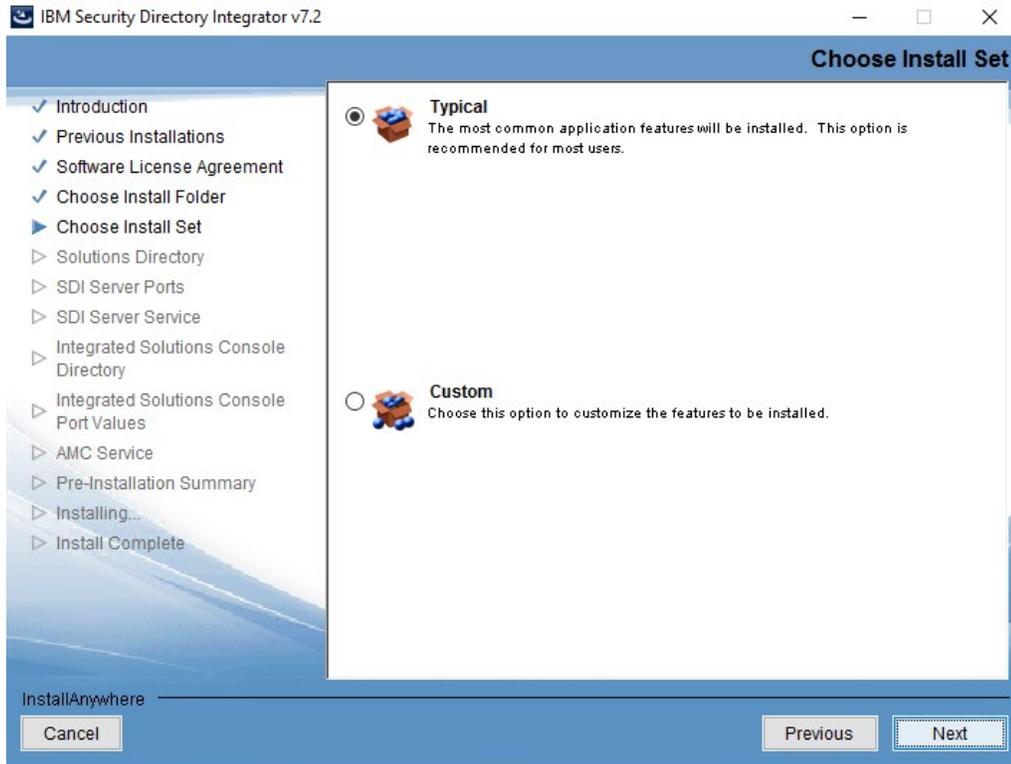
10. Select **I accept the terms in the license agreement**.

11. Click **Next**.

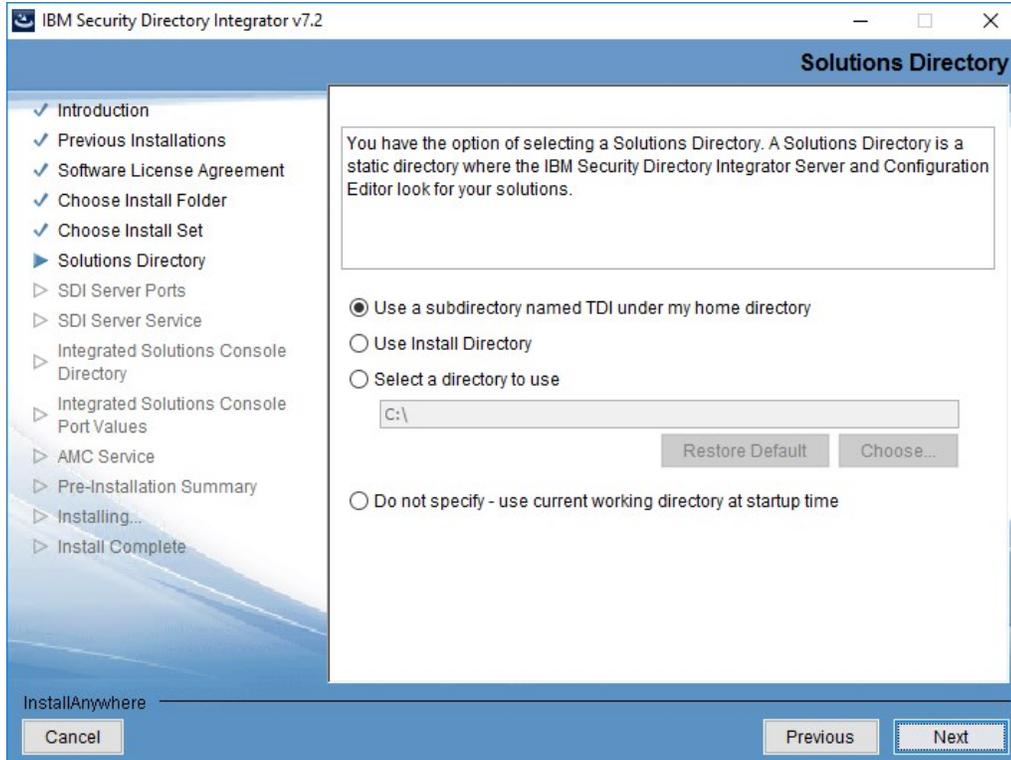


12. In the **Choose Install Folder**, the folder where Security Directory Integrator 7.2 is installed appears. Click **Choose** to change the folder where you want to install Security Directory Integrator 7.2.

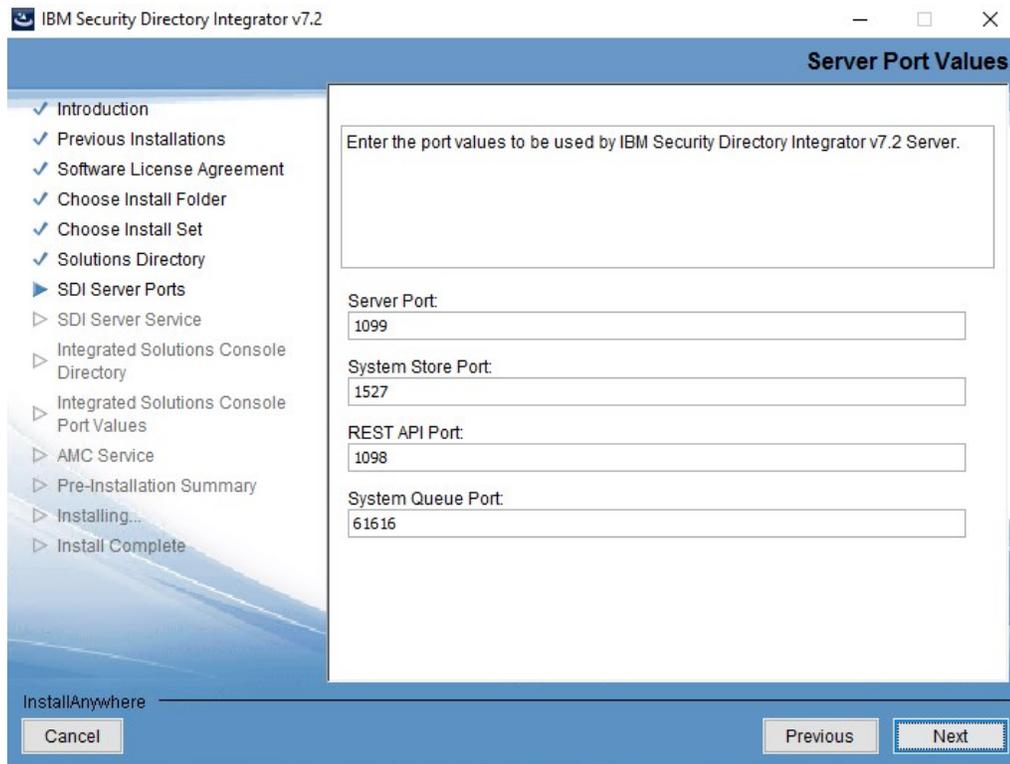
13. After installing Security Directory Integrator 7.2, in the **Choose Install Folder**, click **Next**. The **Choose Install Set** panel appears.



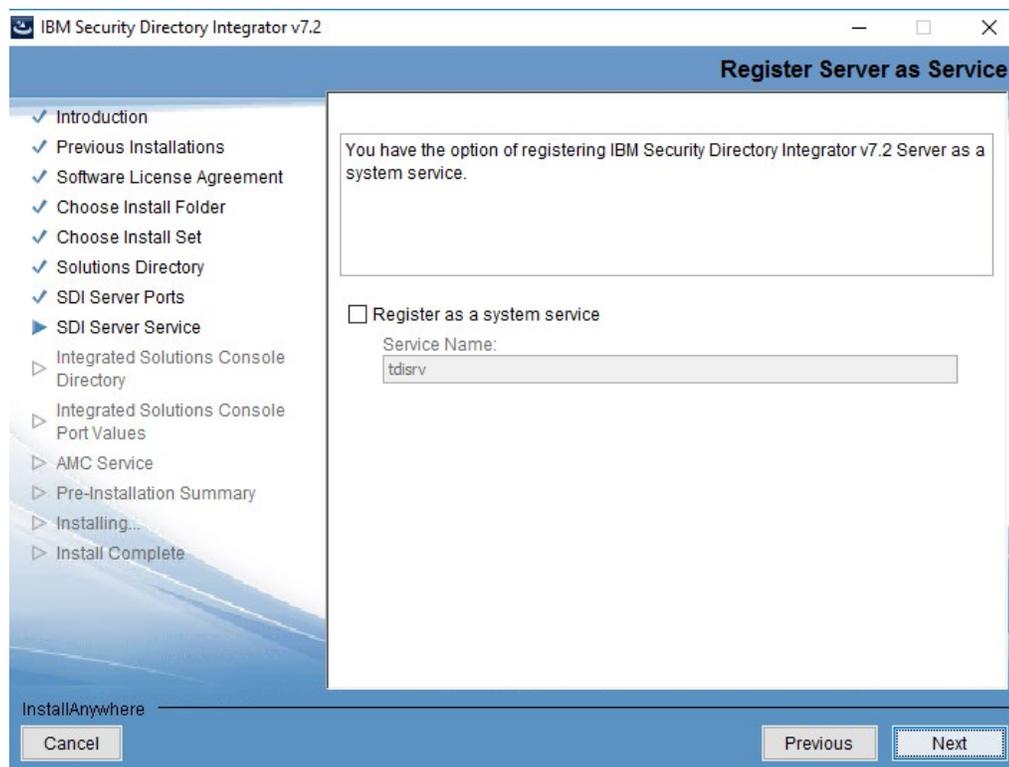
14. Select **Typical** and click **Next**.



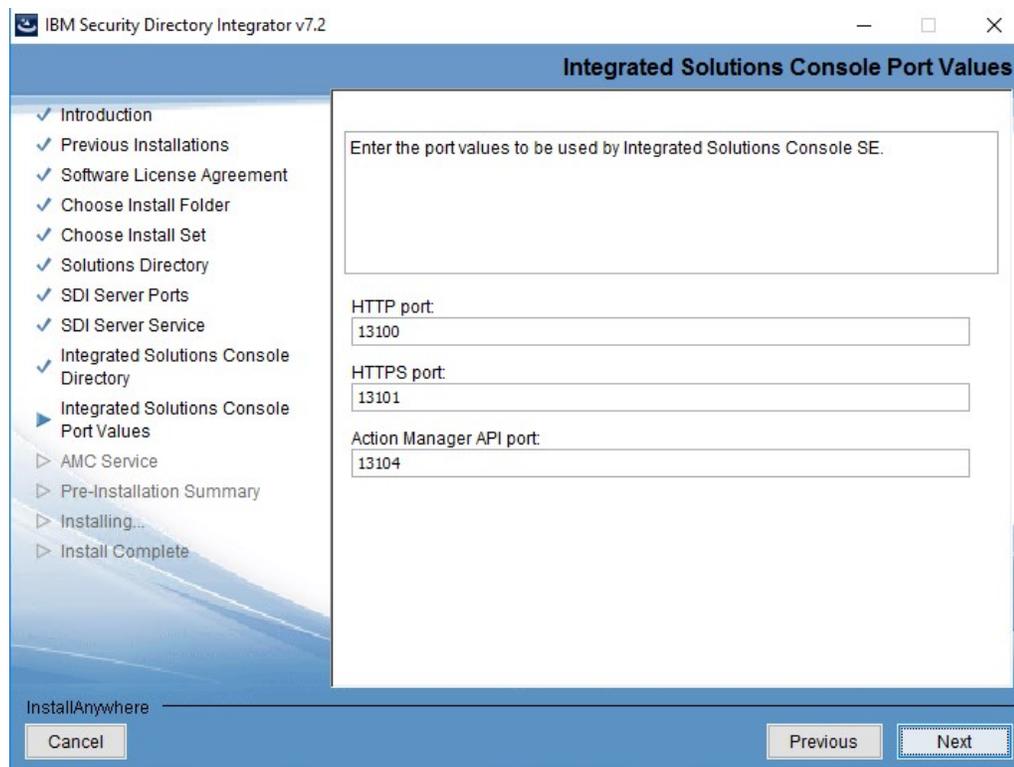
15. Click **Next**. The **Server Ports Values** panel appears.



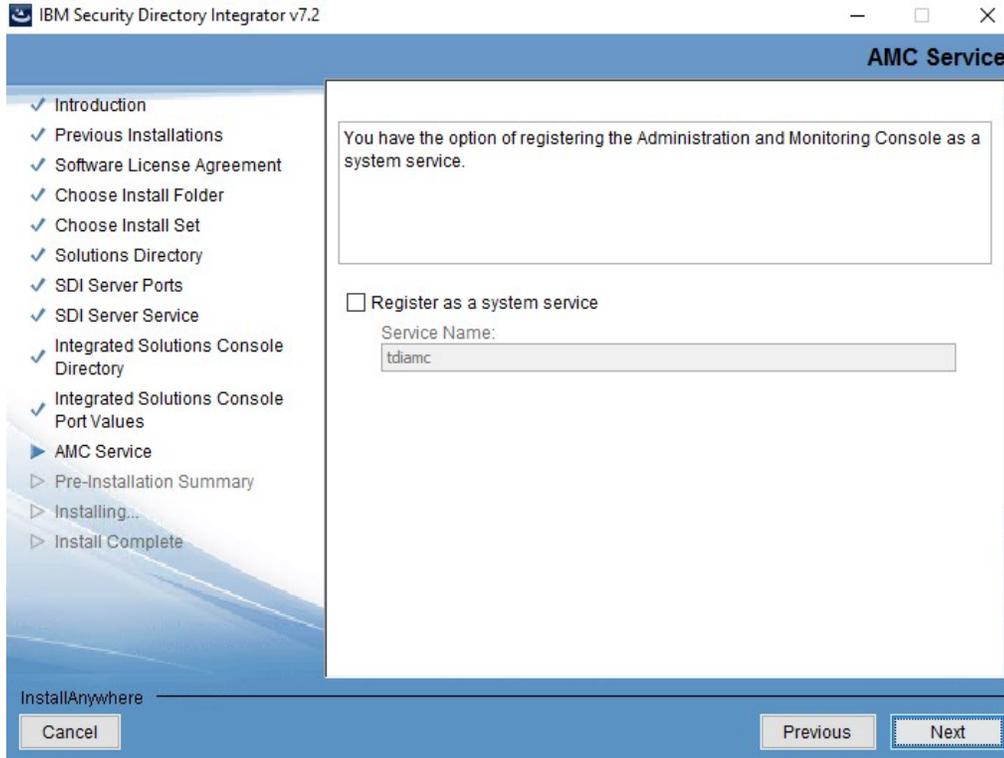
16. Click **Next**. The **Register Server as Service** panel appears.



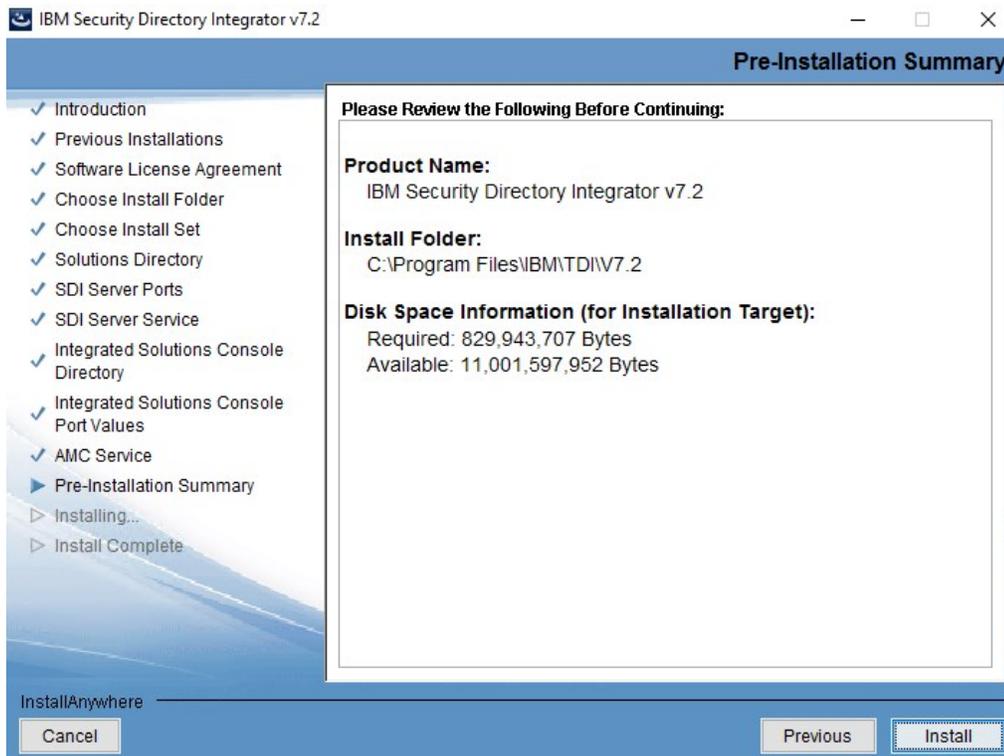
17. Click **Next**. The **Integrated Solutions Console Port Values** panel appears.



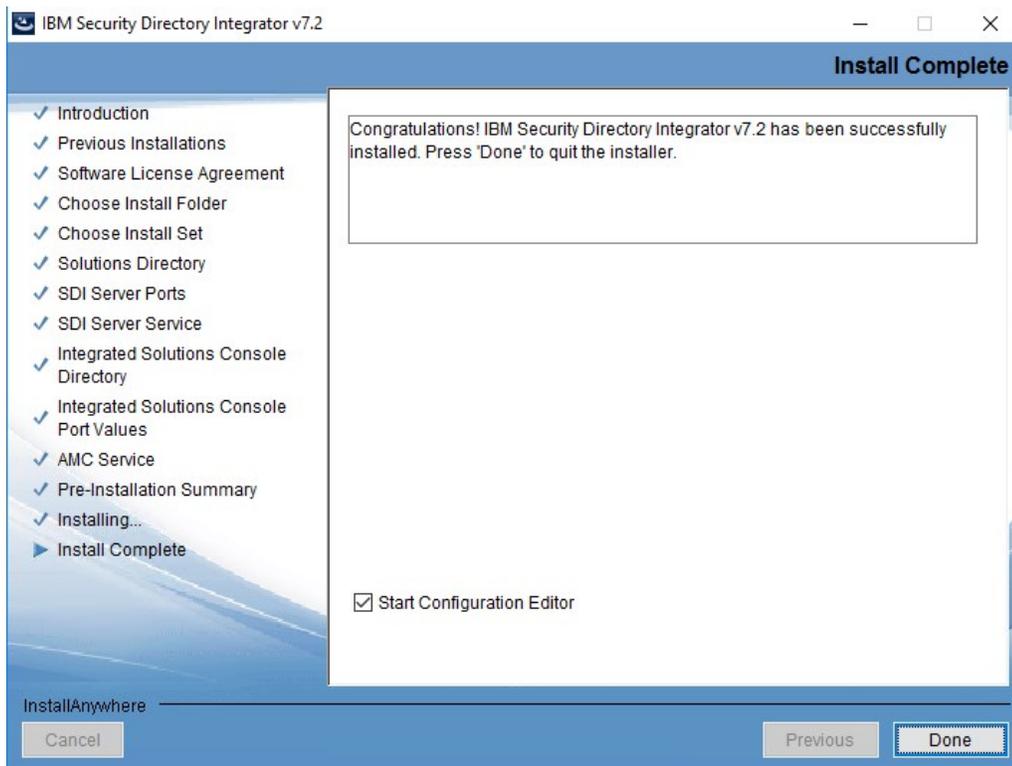
18. Click **Next**. The **AMC Service** panel appears.



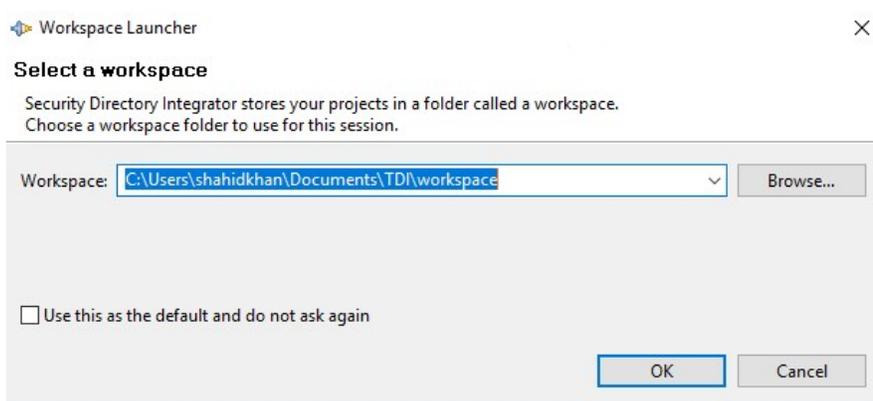
19. Click **Next**. The **Pre-Installation Summary** panel appears.



20. Click **Install**. The **Install Complete** panel appears.



21. Click **Done**. The Security Directory Integrator 7.2 is installed successfully. The **Workspace Launcher** dialog box appears.



22. Click **Cancel**.

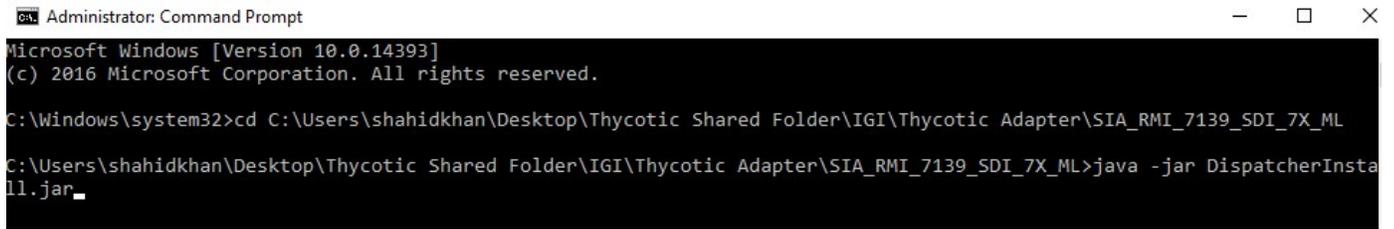
23. Go to C:\Program Files\IBM\TDIV7.2. This is the **Security Directory Integrator 7.2** folder.

## Installing Tivoli Dispatcher

You must install the Tivoli Dispatcher using the **IBM Security Identity Adapter** wizard. The Tivoli Dispatcher is a Security Directory Integrator component that enables the IGI to communicate with IBM Security Directory Integrator.

### To install Tivoli Dispatcher:

1. Go to the **Thycotic Shared Folder > IGI > Thycotic Adapter > SIA\_RMI\_7139\_SDI\_7X\_ML**.
2. In the **Windows Search** box type cmd. The results are auto-populated. Right-click **Command Prompt** and click **Run as administrator**.
3. In the **User Account Control** dialog box, click **Yes**.

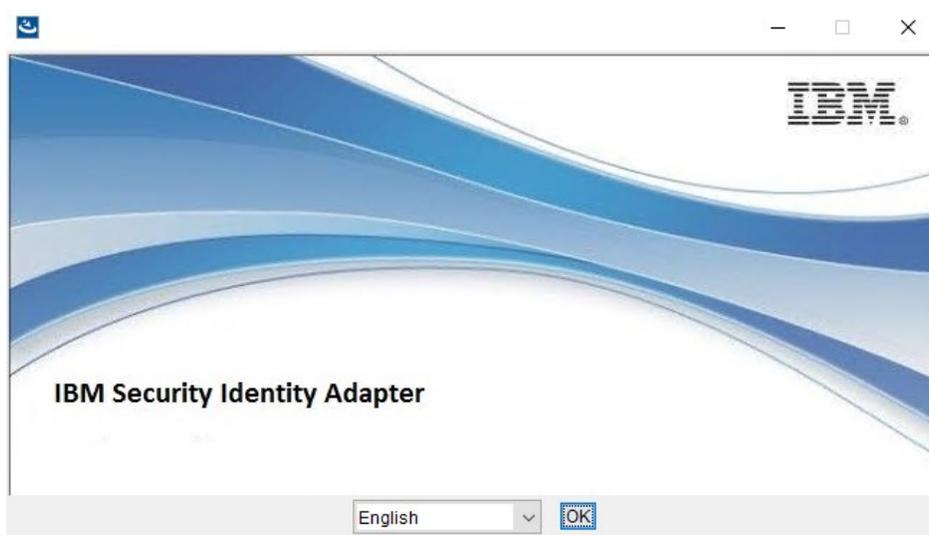


```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

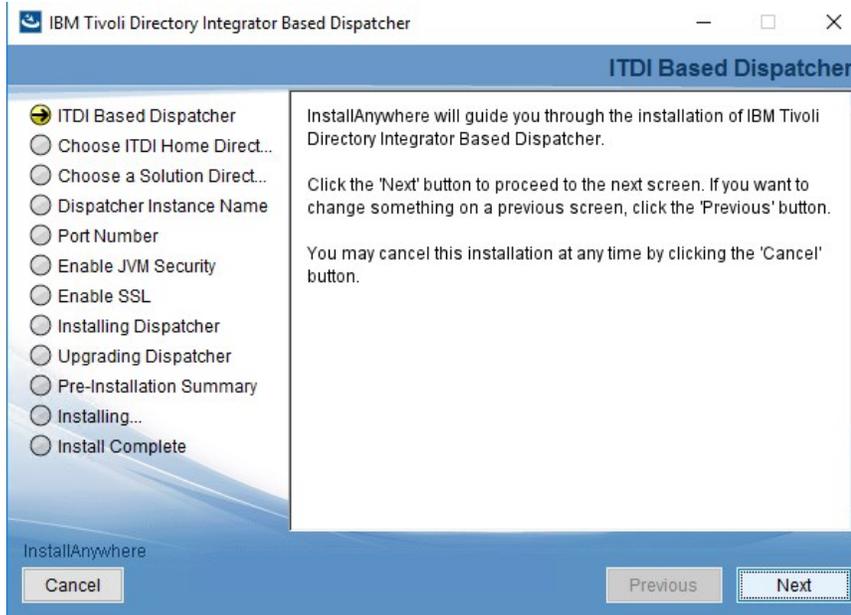
C:\Windows\system32>cd C:\Users\shahidkhan\Desktop\Thycotic Shared Folder\IGI\Thycotic Adapter\SIA_RMI_7139_SDI_7X_ML

C:\Users\shahidkhan\Desktop\Thycotic Shared Folder\IGI\Thycotic Adapter\SIA_RMI_7139_SDI_7X_ML>java -jar DispatcherInstall.jar_
```

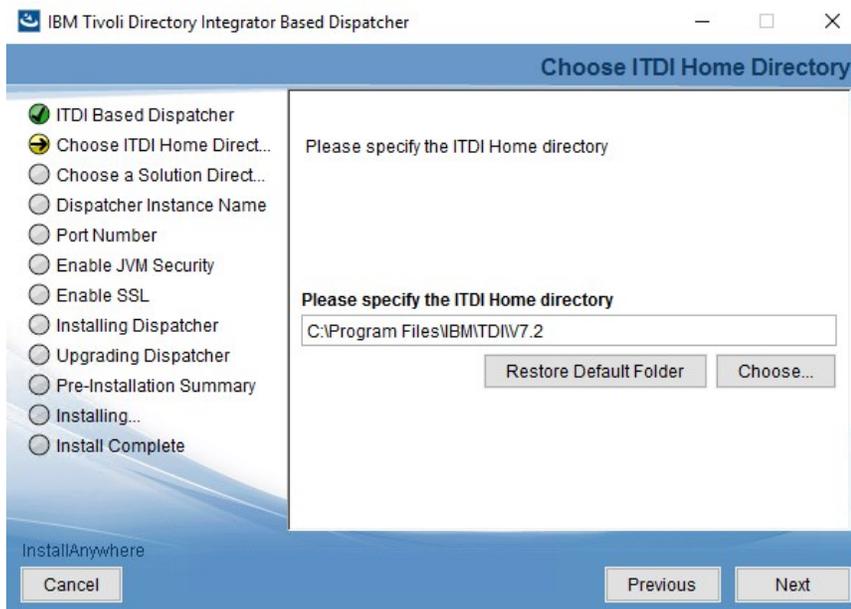
4. In the **Command Prompt** type the following: cd <path where the DispatcherInstall is located> and press **Enter**.
5. In the **Command Prompt** then type the following: Java -jar DispatcherInstall.jar and press **Enter**. The **IBM Security Identity Adapter** wizard appears.



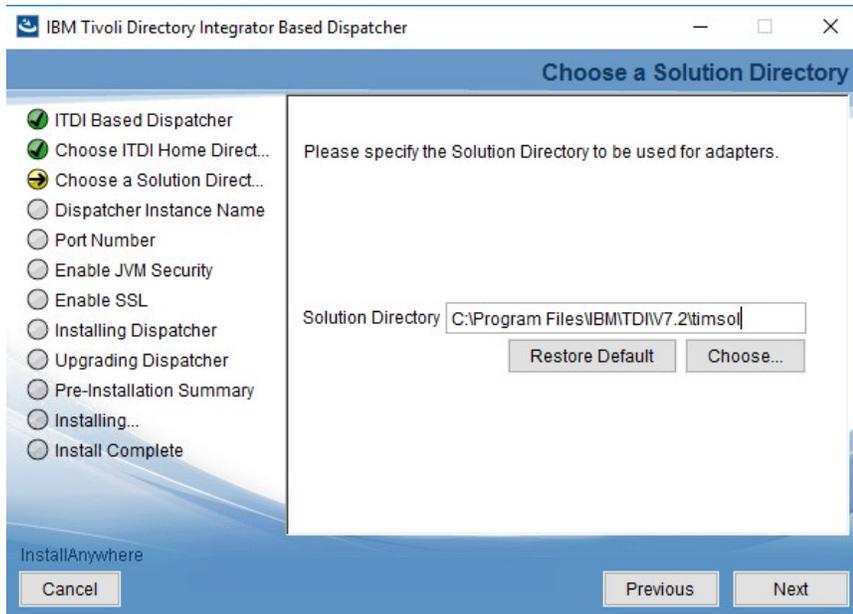
6. Click **OK**. The **ITDI Based Dispatcher** panel appears.



7. Click **Next**. The **Choose ITDI Home Directory** panel appears.

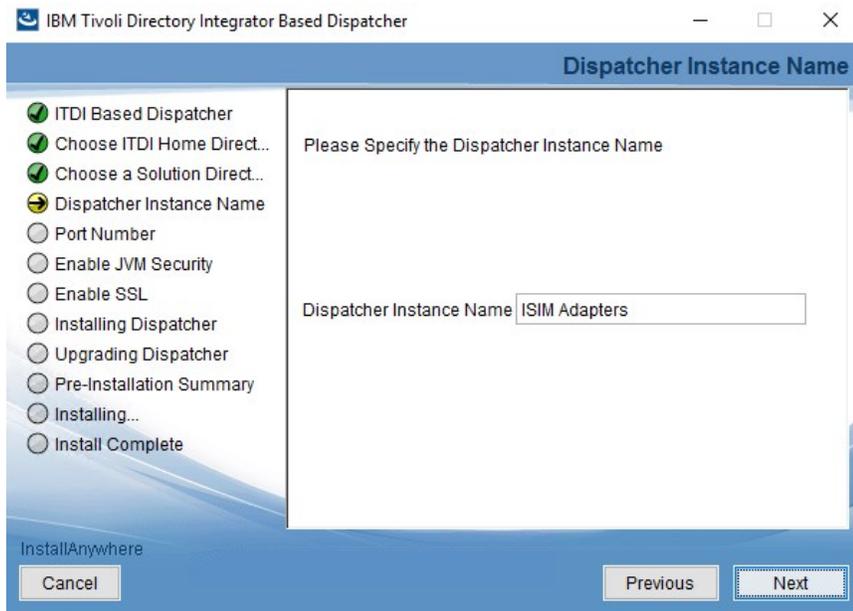


8. Click **Choose** to select Security Directory Integrator path and click **Next**. The **Choose a Solution Directory** panel appears.

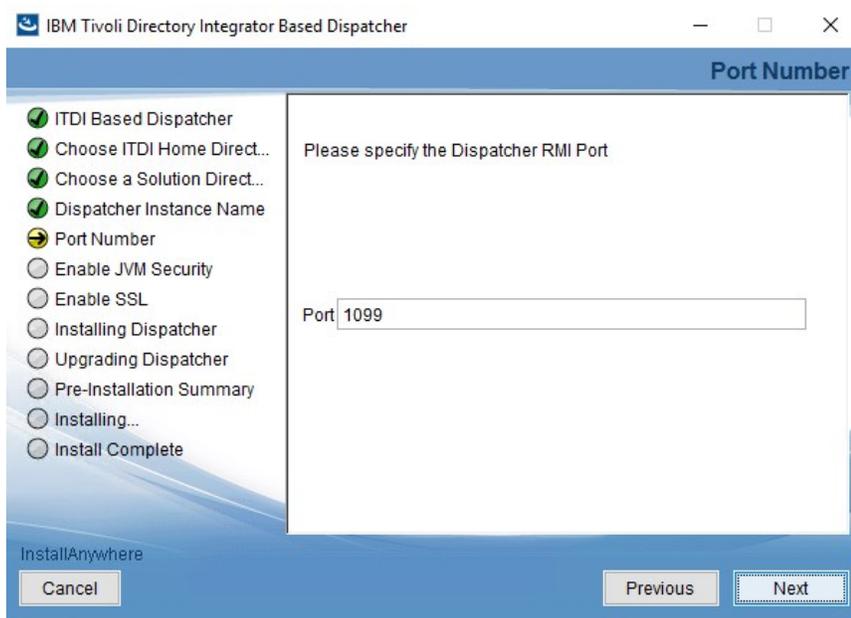


9. Add \timsol to the ITDI Home Directory and click **Next**. The **Dispatcher Instance Name** panel appears.

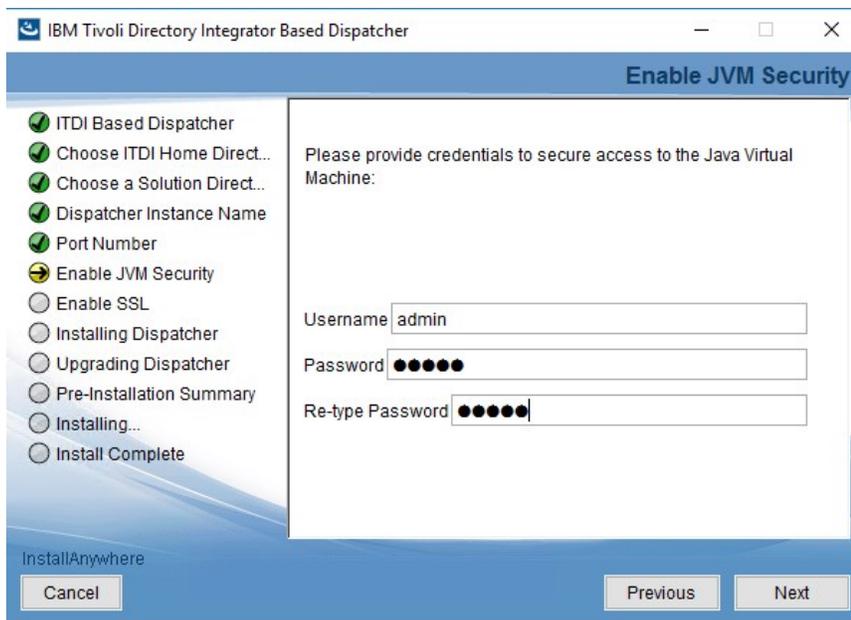
**Note:** Timsol is the folder where all the Tivoli directory integrator based dispatcher file is placed.



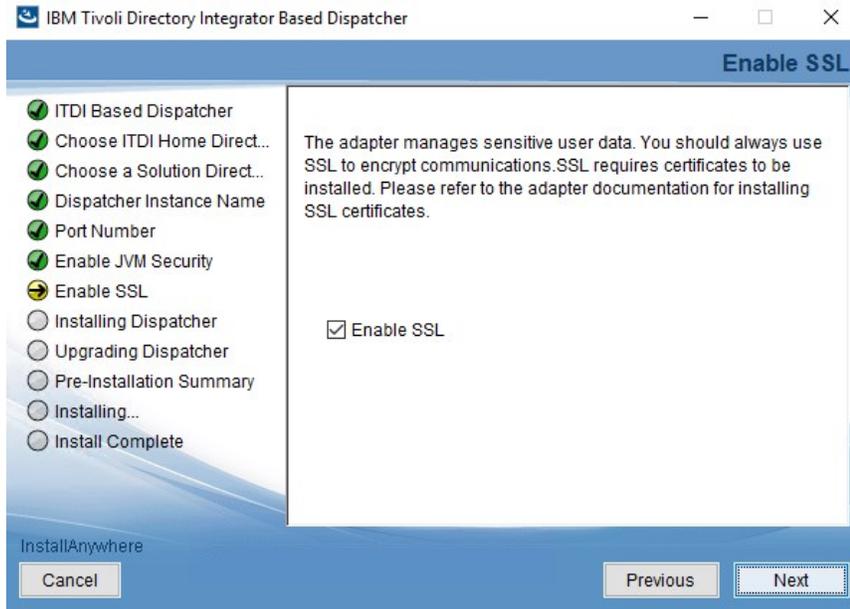
10. Click **Next**. The **Port Number** panel appears.



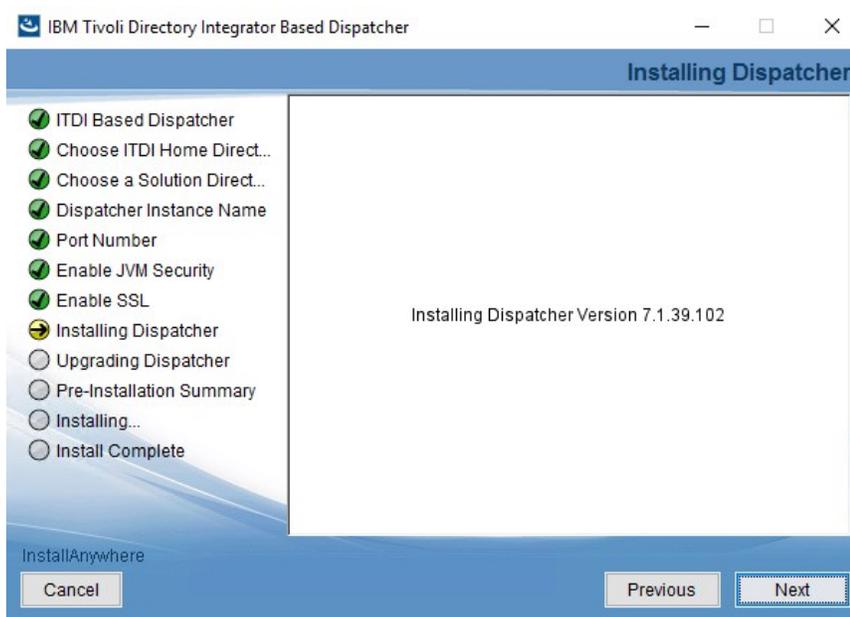
11. Click **Next**. The **Enable JVM Security** panel appears.



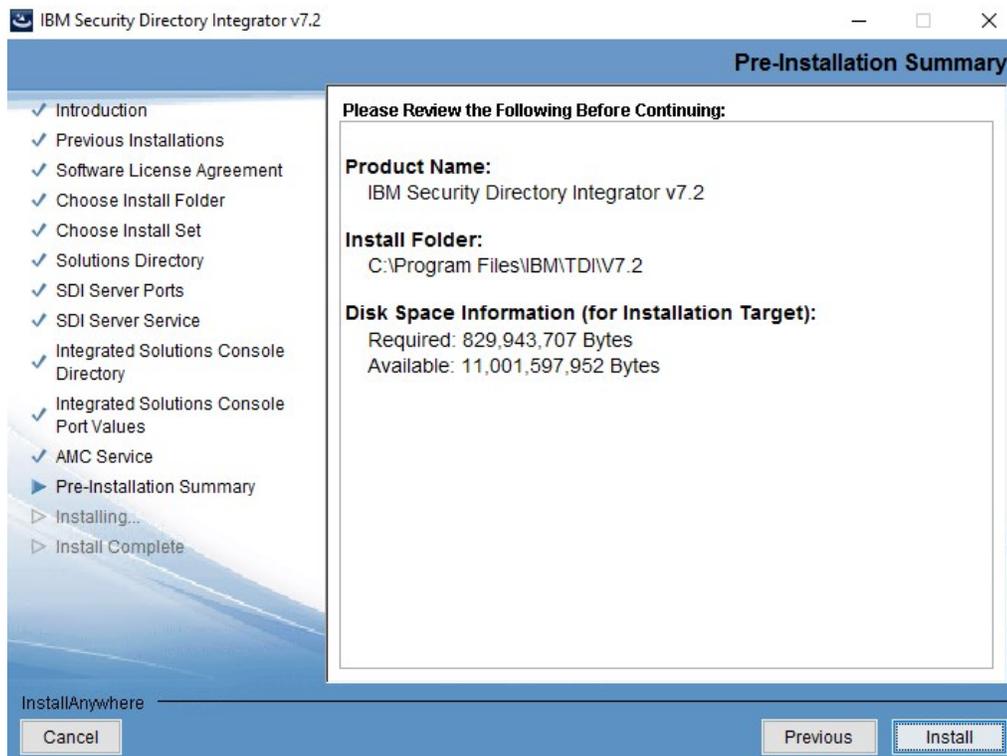
12. Type username, password, re-type password and click **Next**. The **Enable SSL** panel appears.



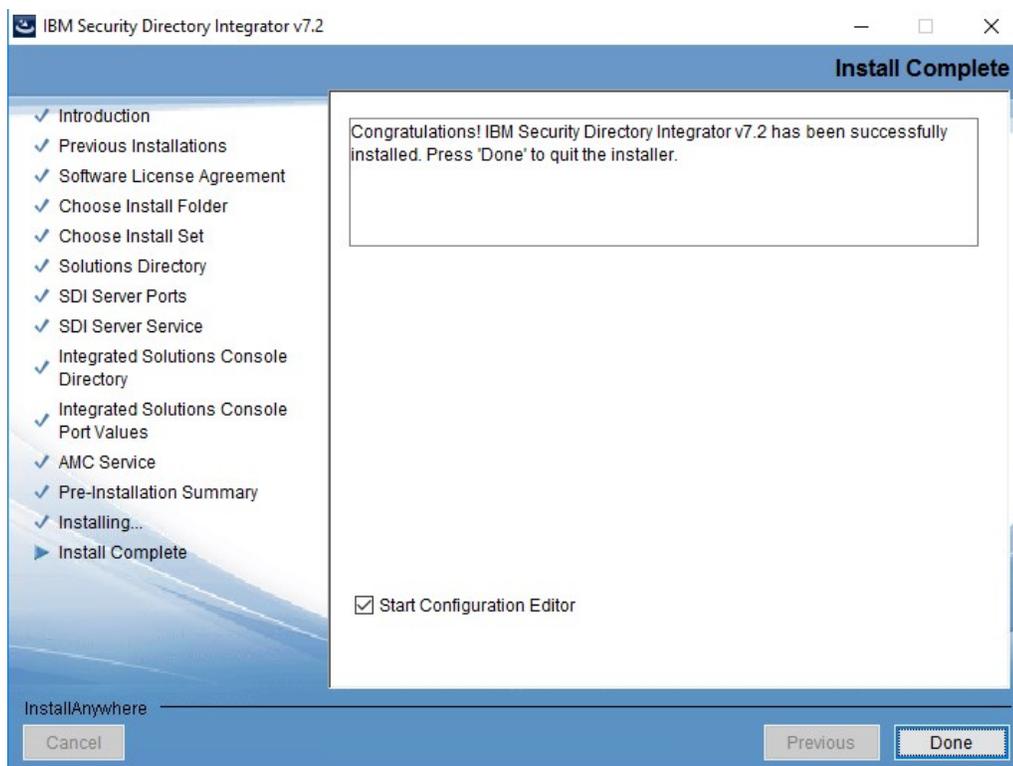
13. Click **Next**. The **Installing Dispatcher** panel appears.



14. Click **Next**. The **Pre-Installation Summary** panel appears.



15. Click **Install**.



16. In the **Install Complete** panel, click **Done**. The Security Directory Integrator is installed.

17. To verify the installation, go to C:\Program Files\IBM\TDIV7.2 and verify if the timsol folder is created.
18. In the **Search** box type services. The results are auto-populated.
19. Click Services. Verify if the **IBM Security Directory Integrator (ISIM Adapters)** service is running.

## Configuration

The following are steps to integrate IBM IGI with Secret Server, please follow the steps in the following order to configure IBM IGI for Secret Server.

1. [Configuring IBM IGI GUI and Dispatcher Folder to Access Admin Console.](#)
2. [Check the validity of the Tivoli Directory Integrator certificate.](#)
3. [Manage Host file.](#)
4. [Integrate Secret Server with IBM IGI Admin Console.](#)
5. [Configure the connector.](#)
6. [Update user details in Secret Server through IBM IGI.](#)
7. [Verifying the Integration.](#)

## Configuring IBM IGI GUI and Dispatcher Folder to Access Admin Console

You need to configure IBM IGI GUI and Timsol to establish connection with Secret Server.

### Update files in folders

You have to update the files in folders such as Connectors, Axix2, Others, and Timsol.

### To update the files in folders:

1. Go to the virtual appliance.

```

Performing appliance bootstrap steps [ OK ]
Updating JUM settings [ OK ]
Resetting filesystem permissions [ OK ]
Cleaning notifications [ OK ]
Starting services... [ OK ]
Start services status [ OK ]
Exiting appliance bootstrap [ OK ]

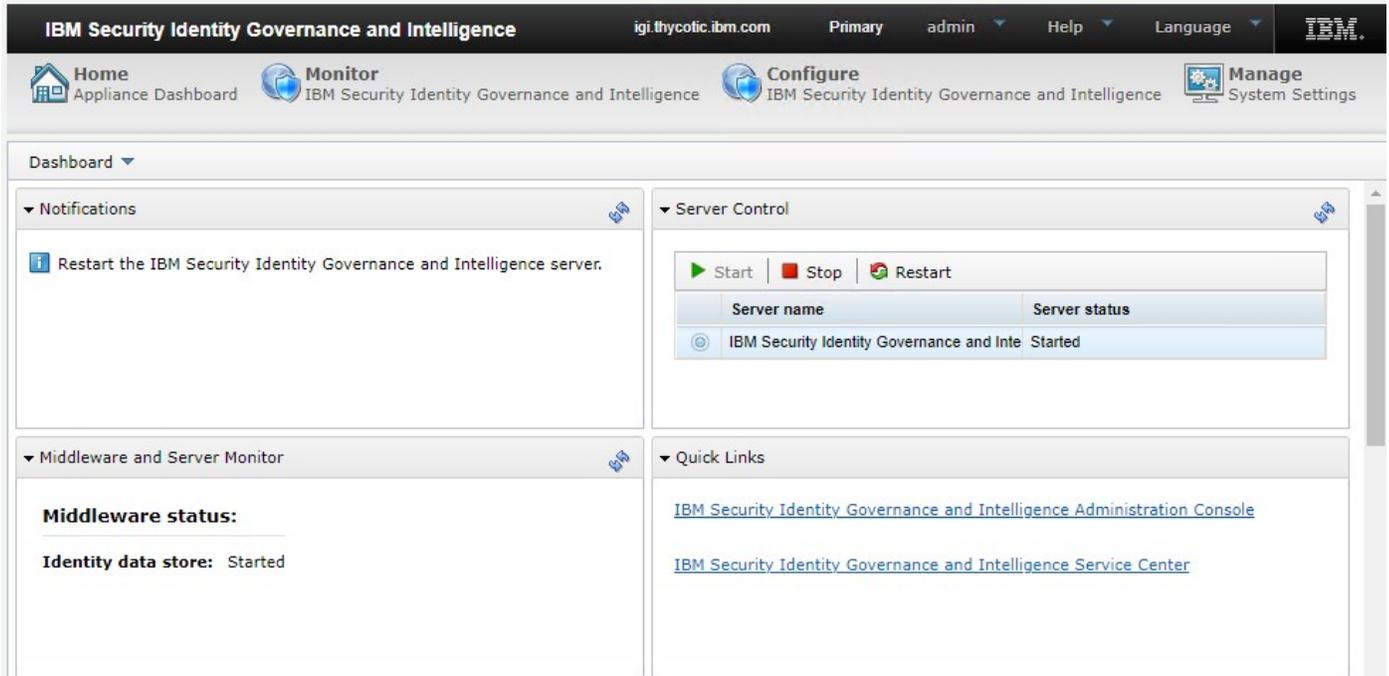
igi.thycotic.ibm.com login: admin
Password:
Welcome to the IBM Security Identity Governance and Intelligence appliance
Enter "help" for a list of available commands
igi.thycotic.ibm.com> igi
igi.thycotic.ibm.com:igi> utilities
igi.thycotic.ibm.com:utilities> ib_settings
igi.thycotic.ibm.com:ib_settings> ib_password_reset
Enter 'YES' to confirm: YES
Resetting IB password..

Password reset successful.

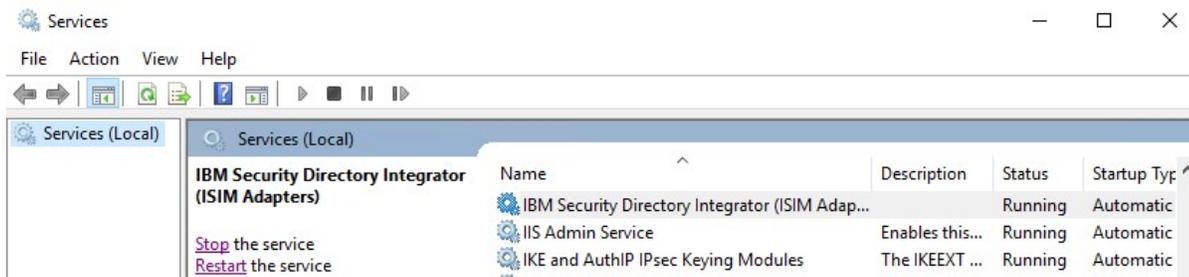
igi.thycotic.ibm.com:ib_settings> ib_api
igi.thycotic.ibm.com:ib_api> enable
Are you sure you want to enable Identity Brokerage API? Enter YES to confirm that you want to continue: YES
Identity Brokerage API enabled successfully.
igi.thycotic.ibm.com:ib_api> _

```

2. Login using the **login** and **Password**.
3. Type the command **igi** and press **Enter**.
4. Type the command **utilities** and press **Enter**.
5. Type the command **ib\_settings** and press **Enter**.
6. Type the command **ib\_password\_reset** and press **Enter**.
7. Type **YES** to confirm password reset and press **Enter**. The password reset is successful.
8. Type the command **ib\_api** and press **Enter**.
9. Type the command **enable** and press **Enter**.
10. Type **YES** if you are sure you want to enable Identity Brokerage API.
11. Go to **IBM Security Identity Governance and Intelligence Appliance** dashboard.



12. In the **Server Control** area, select the server and click **Restart**.
13. In the **Windows Search** box type services. The results are auto-populated. Click **Services**. The **Services** window appears.



14. Verify if the **IBM Security Directory Integrator (ISIM Adapters)** service is running.
15. Open the Thycotic Adapter integration files and navigate to **Thycotic Adapter | SIA\_V7.1.5\_SSS\_Thycotic\_Sec\_Serv**.
16. Copy the ThycoticConnector file.
17. On the server hosting IGI navigate to C:\Program Files\IBM\TDIV7.2\jars\connectors and paste the ThycoticConnector file.

**Note:** Stop the **IBM Security Directory Integrator** service before pasting the file.

Program Files > IBM > TDI > V7.2 > jars > connectors

Search connectors

Name	Date modified	Type	Size
SAPALCIDOCConnector	11/14/2013 6:29 PM	Executable Jar File	70 KB
SapR3BorConnector	11/14/2013 6:30 PM	Executable Jar File	93 KB
SapR3UserRegConnector	11/14/2013 6:31 PM	Executable Jar File	86 KB
SCIMConnector	11/14/2013 6:27 PM	Executable Jar File	25 KB
ScriptConnector	11/14/2013 6:32 PM	Executable Jar File	22 KB
ServerNotificationsConnector	11/14/2013 6:33 PM	Executable Jar File	31 KB
SimpleTpaelfConnector	11/14/2013 6:34 PM	Executable Jar File	129 KB
SNMPConnector	11/14/2013 6:28 PM	Executable Jar File	28 KB
SNMPServerConnector	11/14/2013 6:29 PM	Executable Jar File	28 KB
SunDirectoryCDCConnector	11/14/2013 6:35 PM	Executable Jar File	50 KB
SystemQueueConnector	11/14/2013 6:36 PM	Executable Jar File	19 KB
SystemStoreConnector	11/14/2013 6:36 PM	Executable Jar File	58 KB
TAMConnector	11/14/2013 6:37 PM	Executable Jar File	83 KB
TCPConnector	11/14/2013 6:38 PM	Executable Jar File	24 KB
TCPServerConnector	11/14/2013 6:39 PM	Executable Jar File	25 KB
ThycoticConnector	1/15/2020 4:43 AM	Executable Jar File	52 KB
TIMDSMLv2Connector	11/14/2013 6:40 PM	Executable Jar File	20 KB

18. Download the following files:

- Commons Codec: <http://commons.apache.org/proper/commons-codec/>
- Commons Logging: <http://commons.apache.org/proper/commons-logging/>
- Http Client: <https://hc.apache.org/downloads.cgi>
- Http Core: <https://hc.apache.org/downloads.cgi>
- Json Simple: <https://mvnrepository.com/artifact/com.googlecode.json-simple/json-simple/1.1.1>

19. Go to C:\Program Files\IBM\TDIV7.2\jars\3rdparty\others and paste the following files here:

- commons-codec-1.11
- commons-logging-1.2
- httpclient-4.5.8
- httpcore-4.4.11
- json-simple-1.1.1

C:\Program Files\IBM\TDIV7.2\jars\3rdparty\others | Search others

Name	Date modified	Type	Size
emf	2/6/2020 8:00 AM	File folder	
activation	11/14/2013 3:04 PM	Executable Jar File	55 KB
antlr	11/14/2013 3:02 PM	Executable Jar File	350 KB
antlr-2.7.2	9/12/2017 9:29 AM	Executable Jar File	350 KB
axis	11/14/2013 3:02 PM	Executable Jar File	1,567 KB
axis-ant	11/14/2013 3:02 PM	Executable Jar File	33 KB
castor-0.9.5.4-xml	11/14/2013 3:02 PM	Executable Jar File	1,179 KB
commons-codec-1.11	6/5/2019 12:49 PM	Executable Jar File	328 KB
commons-discovery-0.2	11/14/2013 3:02 PM	Executable Jar File	70 KB
commons-logging-1.0.4	11/14/2013 3:02 PM	Executable Jar File	38 KB
commons-logging-1.2	6/5/2019 12:49 PM	Executable Jar File	61 KB
hl14	11/14/2013 3:04 PM	Executable Jar File	24 KB
hlcbe101	11/14/2013 3:04 PM	Executable Jar File	188 KB
hlcore	11/14/2013 3:04 PM	Executable Jar File	15 KB
httpclient-4.5.8	6/5/2019 12:49 PM	Executable Jar File	755 KB
httpcore-4.4.11	6/5/2019 12:49 PM	Executable Jar File	320 KB
jakarta-oro-2.0.8	11/14/2013 3:04 PM	Executable Jar File	64 KB
jakarta-regexp-1.4	9/12/2017 9:29 AM	Executable Jar File	28 KB
jaxrpc	11/14/2013 3:02 PM	Executable Jar File	31 KB
janclient	11/14/2013 3:04 PM	Executable Jar File	383 KB
JSON4J	11/14/2013 3:04 PM	Executable Jar File	28 KB
json-simple-1.1.1	1/2/2020 1:06 AM	Executable Jar File	24 KB
jt400	11/14/2013 3:02 PM	Executable Jar File	4,291 KB

20. Go to C:\Program Files\IBM\TDIV7.2\jars\3rdparty\IBM\axis2 and delete the existing version of the following files:

- commons-codec
- commons-logging
- httpclient
- httpcore

and paste the latest version of the following files:

- commons-codec-1.11
- commons-logging-1.2
- httpclient-4.5.8
- httpcore-4.4.11

C:\Program Files\IBM\TDI\V7.2\jars\3rdparty\IBM\axis2

Name	Date modified	Type	Size
axis2-kernel-SNAPSHOT	11/14/2013 3:04 PM	Executable Jar File	1,019 KB
axis2-metadata-SNAPSHOT	11/14/2013 3:04 PM	Executable Jar File	410 KB
axis2-mtompolicy-SNAPSHOT	11/14/2013 3:04 PM	Executable Jar File	19 KB
axis2-saaj-SNAPSHOT	11/14/2013 3:04 PM	Executable Jar File	93 KB
axis2-spring-SNAPSHOT	11/14/2013 3:04 PM	Executable Jar File	17 KB
axis2-transport-http-SNAPSHOT	11/14/2013 3:04 PM	Executable Jar File	148 KB
axis2-transport-local-SNAPSHOT	11/14/2013 3:04 PM	Executable Jar File	17 KB
axis2-xmlbeans-SNAPSHOT	11/14/2013 3:04 PM	Executable Jar File	32 KB
commons-codec-1.11	6/5/2019 12:49 PM	Executable Jar File	328 KB
commons-fileupload-1.2	11/14/2013 3:04 PM	Executable Jar File	52 KB
commons-httpclient-3.1	11/14/2013 3:04 PM	Executable Jar File	306 KB
commons-io-1.4	11/14/2013 3:04 PM	Executable Jar File	107 KB
commons-logging-1.2	6/5/2019 12:49 PM	Executable Jar File	61 KB
geronimo-activation_1.1_spec-1.0.1	11/14/2013 3:04 PM	Executable Jar File	35 KB
geronimo-annotation_1.0_spec-1.1	11/14/2013 3:04 PM	Executable Jar File	12 KB
httpclient-4.5.8	6/5/2019 12:49 PM	Executable Jar File	755 KB
httpcore-4.4.11	6/5/2019 12:49 PM	Executable Jar File	320 KB
jaxen-1.1.1	11/14/2013 3:04 PM	Executable Jar File	222 KB

21. Go to C:\Program Files\IBM\TDI\V7.2\timsol.

Program Files > IBM > TDI > V7.2 > timsol

Name	Date modified	Type	Size
configs	2/6/2020 8:14 AM	File folder	
etc	2/6/2020 8:14 AM	File folder	
idm_repository	2/6/2020 8:13 AM	File folder	
logs	2/6/2020 8:13 AM	File folder	
osgi	2/6/2020 8:14 AM	File folder	
SCIM	2/6/2020 8:14 AM	File folder	
serverapi	2/6/2020 8:14 AM	File folder	
servicetypes	2/6/2020 8:13 AM	File folder	
svcConfigDB	2/6/2020 8:13 AM	File folder	
axis2	2/6/2020 8:13 AM	XML Document	28 KB
axis2.xml.backup	2/6/2020 8:13 AM	BACKUP File	28 KB
ibmdiservice	11/14/2013 3:07 PM	Application	98 KB
ibmdiservice	2/6/2020 8:13 AM	PROPS File	1 KB
idisrv.sth	2/6/2020 8:14 AM	STH File	1 KB
ITIM_RMI	9/12/2017 9:29 AM	XML Document	10 KB
log4j	2/6/2020 8:13 AM	PROPERTIES File	6 KB
log4j.properties.backup	2/6/2020 8:13 AM	BACKUP File	5 KB
solution	2/6/2020 8:14 AM	PROPERTIES File	27 KB
testserver.jks	2/6/2020 8:14 AM	JKS File	2 KB

22. Select the ibmdiservice file and open it in Notepad in administrative mode.

Program Files > IBM > TDI > V7.2 > timsol

```

ibmdiservice - Notepad
File Edit Format View Help
path=C:\Program Files\IBM\TDI\V7.2\jvm\jre\bin;C:\Program I
ibmdiroot=C:\Program Files\IBM\TDI\V7.2
jvmRoot=C:\Program Files\IBM\TDI\V7.2\jvm

assemblylines=
cmdoptions=-d
jvmcmdoptions=-Djava.rmi.server.hostname=10.60.25.28
debug=false
controlledshutdown=false
test
configfile=ITIM_RMI.xml
autostart=true
servicename=ISIM Adapters
  
```

23. In the `jvmcmdoptions`, type `-Djava.rmi.server.hostname= <server hostname where Tivoli directory installer is installed and security directory integrator is installed>` and save the file.

24. In the Timsol folder, select the solution file and open it Wordpad in administrative mode.

Program Files > IBM > TDI > V7.2 > timsol

Name	Date modified	Type	Size
configs	2/6/2020 8:14 AM	File folder	
etc	2/6/2020 8:14 AM	File folder	
idm_repository	2/6/2020 8:13 AM	File folder	
logs	2/6/2020 8:13 AM	File folder	
osgi	2/6/2020 8:14 AM	File folder	
SCIM	2/6/2020 8:14 AM	File folder	
serverapi	2/6/2020 8:14 AM	File folder	
servicetypes	2/6/2020 8:13 AM	File folder	
svcConfigDB	2/6/2020 8:13 AM	File folder	
axis2	2/6/2020 8:13 AM	XML Document	28 KB
axis2.xml.backup	2/6/2020 8:13 AM	BACKUP File	28 KB
ibmdiservice	11/14/2013 3:07 PM	Application	98 KB
ibmdiservice	2/7/2020 4:46 AM	PROPS File	1 KB
idisrv.sth	2/6/2020 8:14 AM	STH File	1 KB
ITIM_RMI	9/12/2017 9:29 AM	XML Document	10 KB
log4j	2/6/2020 8:13 AM	PROPERTIES File	6 KB
log4j.properties.backup	2/6/2020 8:13 AM	BACKUP File	5 KB
<b>solution</b>	2/6/2020 8:14 AM	<b>PROPERTIES File</b>	<b>27 KB</b>
testserver.jks	2/6/2020 8:14 AM	JKS File	2 KB

25. In the `com.ibm.di.dispatcher.ssl`, delete `true` and type `false` and save the file.

```

enabled to run in NIST compliant mode.
## The default value is false, i.e. SDI will not run in NIST
Mode by default.
com.ibm.di.server.NIST.on=false
ADAPTER_SOLDIR="C:\Program Files\IBM\TDI\V7.2\timsol"
com.ibm.di.dispatcher.registryPort=1099
com.ibm.di.dispatcher.objectPort=0
com.ibm.di.dispatcher.bindName=ITDIDispatcher
com.ibm.di.dispatcher.ssl=false|
com.ibm.di.dispatcher.ssl.clientAuth=false
com.ibm.di.dispatcher.disableConnectorCache=false
ITDI_HOME=C:\Program Files\IBM\TDI\V7.2

## Credentials used for authenticating to the target JMS system
{protect}-systemqueue.auth.username={encr}
J3fHqd6bePtaK93ziXipPeV1tzUdz8HykhygXPDDV3ZEJLZ/LJYWn1bLPc5v2c5v
NIYykqpZUCarewYN7O/w11tpYvXVScb2utQSyEc1jaF27dy6RBZ+oc43C6dahhat
ePh26wrmImvel/G1TaSkTJToc2FxmBi4nx3XhQuWGTY=
{protect}-systemqueue.auth.password={encr}
N8NY+GnK4UUpSw2avuzPCx9d9gmNELvK7K3vWpaFzi399VXgyqWhaL+JpTTRhUq3
mQ8wlu5qcH53a9009Jh8cXmmjxEi8qP79LXxdpWE0jn4m80medYuW/ELg/4WYv1m
+5PvEe6DYk+0UDzEosq6o+Y0qNR918rCooWFV+hpWRI=
systemqueue.on=false

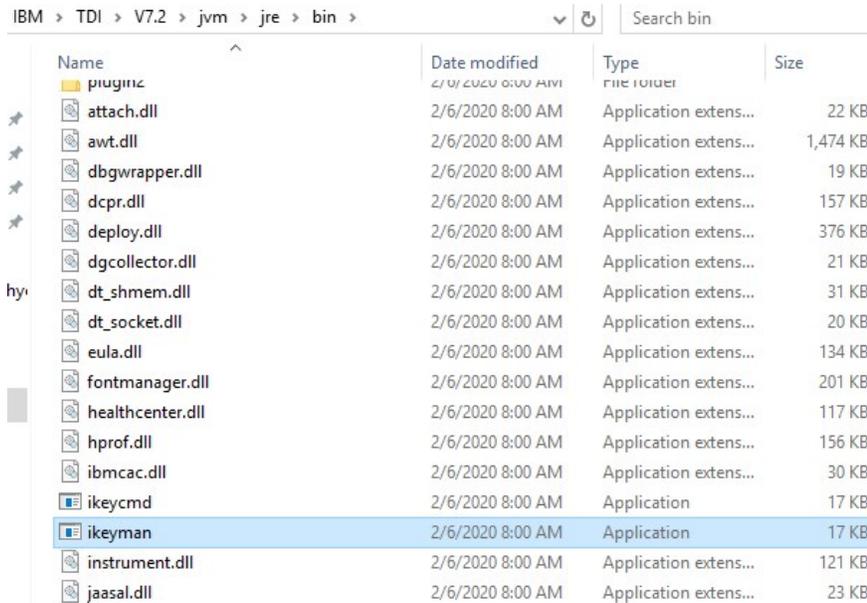
```

The folders are updated successfully. Now, you need

to verify the validity of the certificate.

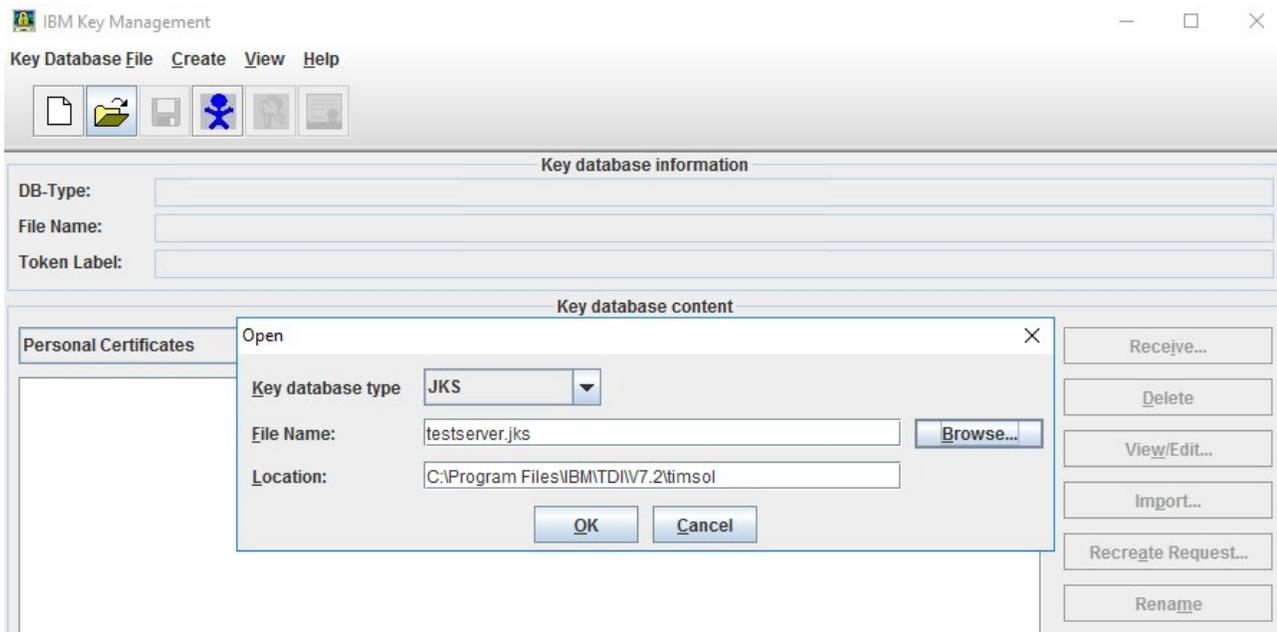
## Check the validity of the Tivoli Directory Integrator certificate

1. Go to C:\Program Files\IBM\TDIV7.2\jvm\jre\bin.



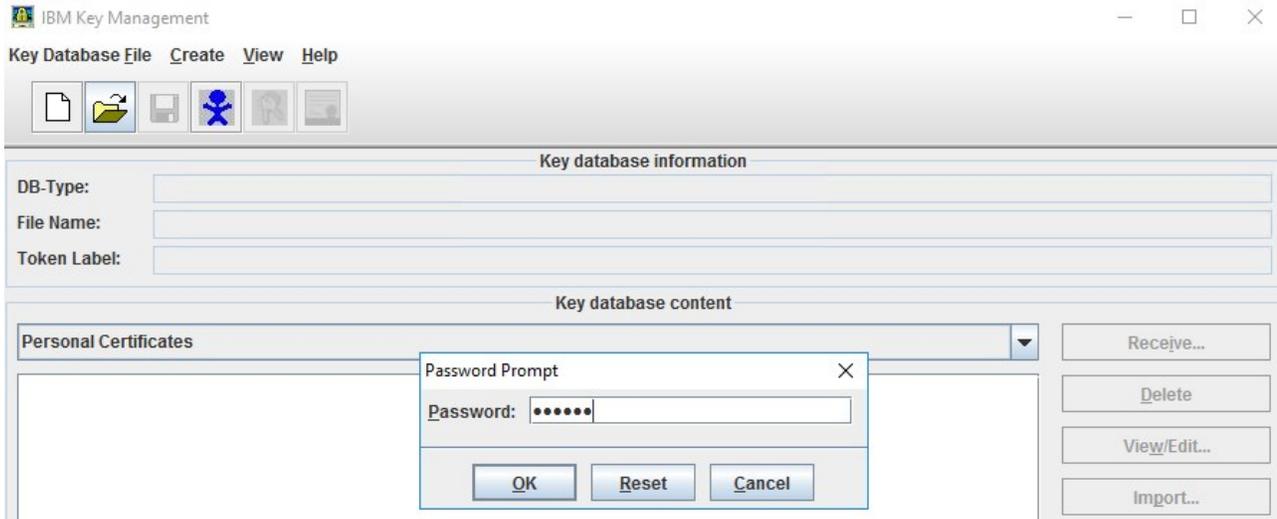
Name	Date modified	Type	Size
plugin2	2/6/2020 8:00 AM	File folder	
attach.dll	2/6/2020 8:00 AM	Application extens...	22 KB
awt.dll	2/6/2020 8:00 AM	Application extens...	1,474 KB
dbgwrapper.dll	2/6/2020 8:00 AM	Application extens...	19 KB
dcpr.dll	2/6/2020 8:00 AM	Application extens...	157 KB
deploy.dll	2/6/2020 8:00 AM	Application extens...	376 KB
dgcollector.dll	2/6/2020 8:00 AM	Application extens...	21 KB
dt_shmem.dll	2/6/2020 8:00 AM	Application extens...	31 KB
dt_socket.dll	2/6/2020 8:00 AM	Application extens...	20 KB
eula.dll	2/6/2020 8:00 AM	Application extens...	134 KB
fontmanager.dll	2/6/2020 8:00 AM	Application extens...	201 KB
healthcenter.dll	2/6/2020 8:00 AM	Application extens...	117 KB
hprof.dll	2/6/2020 8:00 AM	Application extens...	156 KB
ibmccac.dll	2/6/2020 8:00 AM	Application extens...	30 KB
ikeycmd	2/6/2020 8:00 AM	Application	17 KB
<b>ikeyman</b>	2/6/2020 8:00 AM	Application	17 KB
instrument.dll	2/6/2020 8:00 AM	Application extens...	121 KB
jaasal.dll	2/6/2020 8:00 AM	Application extens...	23 KB

2. Select ikeyman file, right-click the file and click **Run as administrator**.
3. In the **User Account Control** dialog box, click **Yes**. The **IBM Key Management** dialog box appears.
4. Click **Open**  icon. The **Open** dialog box appears.



5. Click **Browse** and navigate to the timsol folder which is located at C:\Program Files\IBM\TDIV7.2\timsol.

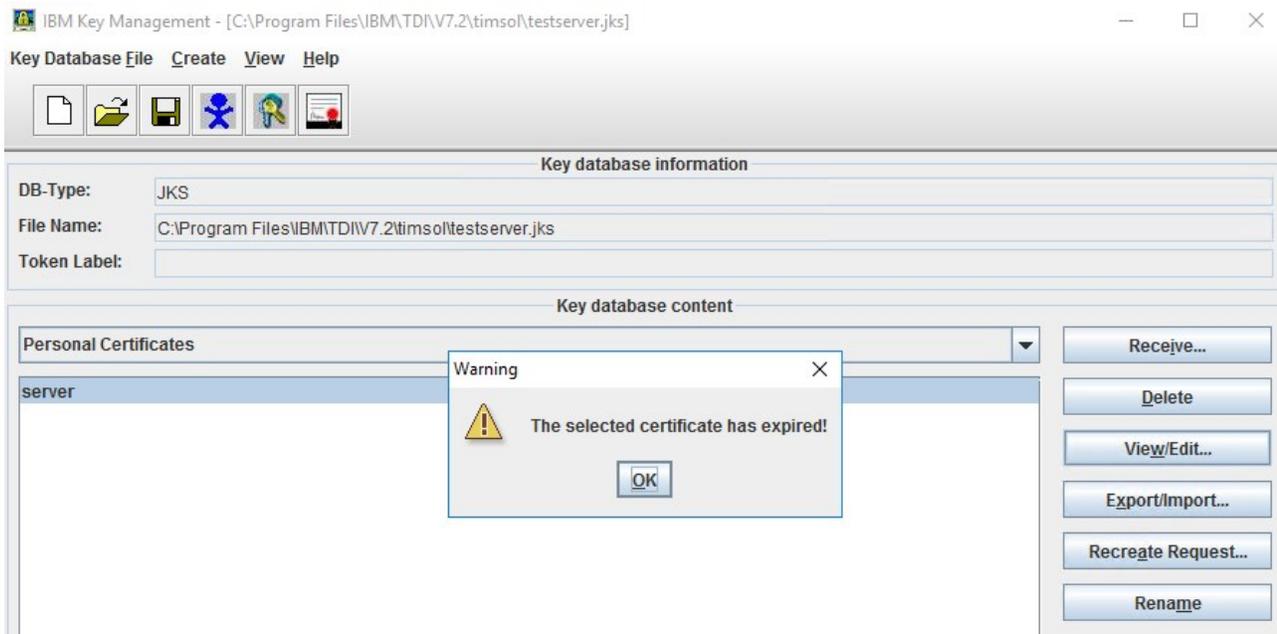
- In the timsol folder, select the testserver.jks and click **OK**. The **Password Prompt** dialog box appears.



- In the **Password** text box, type the password, and click **OK**.

**\*\*Note::** The default password of testserver.jks is server.

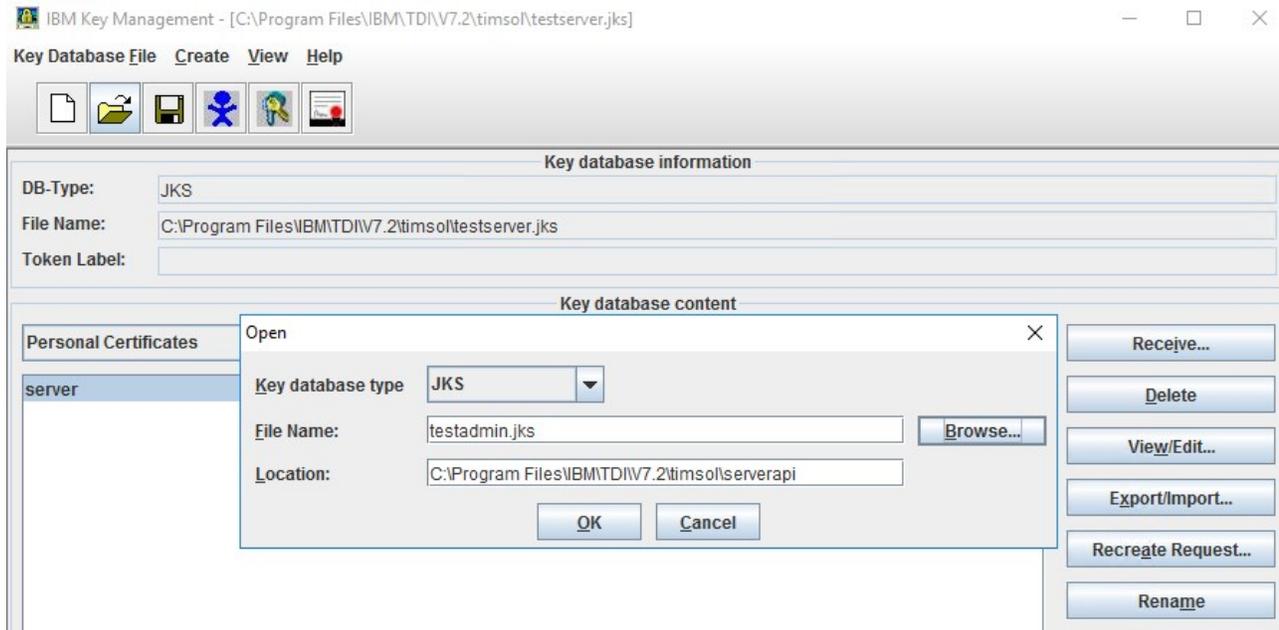
- On the right-hand side, click **View/Edit**. A Warning **'The selected certificate has expired!'** might appear.



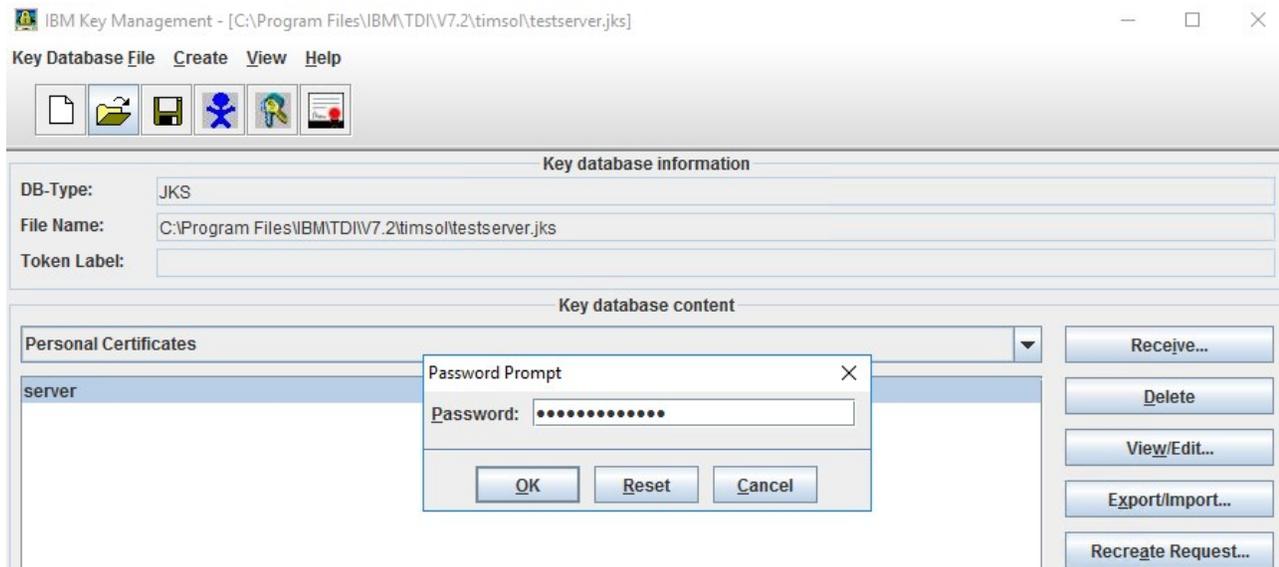
- Click **OK**. The certificate details appear.

- Click **Open**  icon. The **Open** dialog box appears.

- Navigate to the serverapi folder which is located at C:\Program Files\IBM\TDI\V7.2\timsol\serverapi.



12. Select testadmin.jks and click **Open**.
13. In the **Open dialog** box, click **OK**. The **Password Prompt** dialog box appears.



14. In the **Password** text box, type the password, and click **OK**.

**Note:** The default password of testserver.jks is administrator.

15. On the right-hand side, click **View/Edit**. A Warning '**The selected certificate has expired!**' might appear. If so, please see further steps for extending the certificate in [Troubleshooting](#)

IBM Key Management - [C:\Program Files\IBM\TDI\V7.2\timso\serverapi\testadmin.jks]

Key Database File Create View Help

DB-Type: JKS  
File Name: C:\Program Files\IBM\TDI\V7.2\timso\serverapi\testadmin.jks  
Token Label:

Key database content

Personal Certificates

admin
-------

Warning: The selected certificate has expired!

Buttons: Receive..., Delete, View/Edit..., Export/Import..., Recreate Request...

## Manage Host file

You will need to add the details of the host file for communication between Secret Server and Dispatcher.

### To manage host file:

1. Go to **IBM Security Identity Governance and Intelligence** user interface.
2. Click **Manage System Settings | Network Settings | Hosts File**. The **Manage Hosts File** page appears.

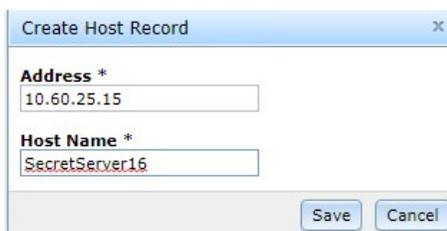


3. Click **New**  icon. The **Create Host Record** dialog box appears.

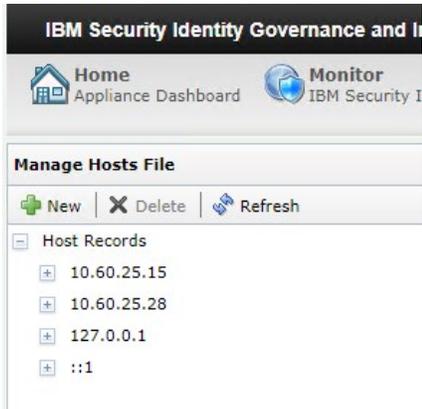


**Note:** Fields marked with asterisk (\*) are mandatory.

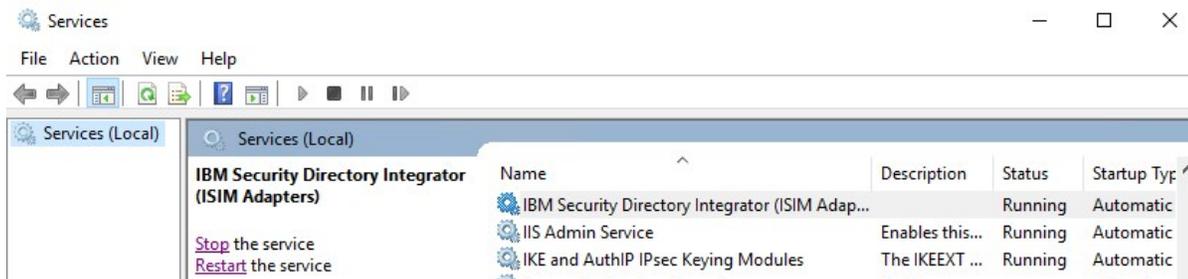
4. **Address:** Type the IP address where the Dispatcher is installed.
5. **Host Name:** Type the host name.
6. Click **Save**. The record is listed under **Hosts Records** in the **Manage Host File** page.
7. Click **New**  icon. The **Create Host Record** dialog box appears.



8. **Address:** Type the IP address where the Secret Server is installed.
9. **Host Name:** Type the host name.
10. Click **Save**.
11. The host record is listed under **Hosts Records**.



- Go to **Windows Services** and click **IBM Security Directory Integrator** service.



- Click **Restart**.
- Go to the **Windows Firewall**.
- Add port **1099** to the Inbound Rule and Outbound Rule.

**Note:** This step is mandatory for a successful connection between Secret Server and IBM IGI.

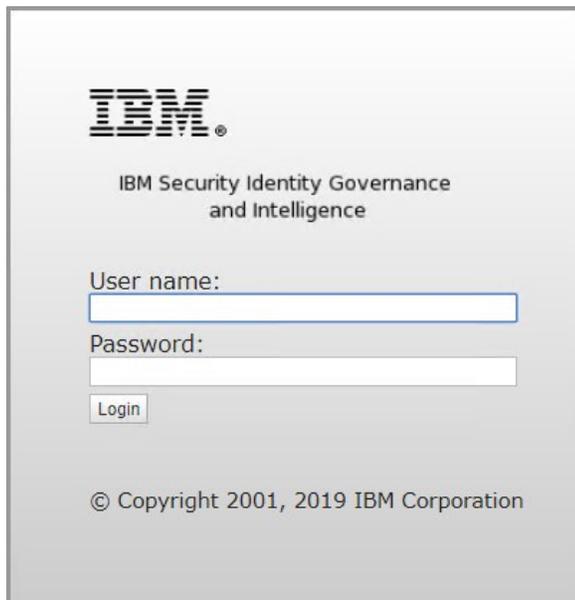
## Integrate Secret Server with IBM IGI Admin Console

The integration of Secret Server is done with IBM IGI Admin Console to fetch Secret Server data into IBM IGI Admin Console.

### Import attribute mapping file

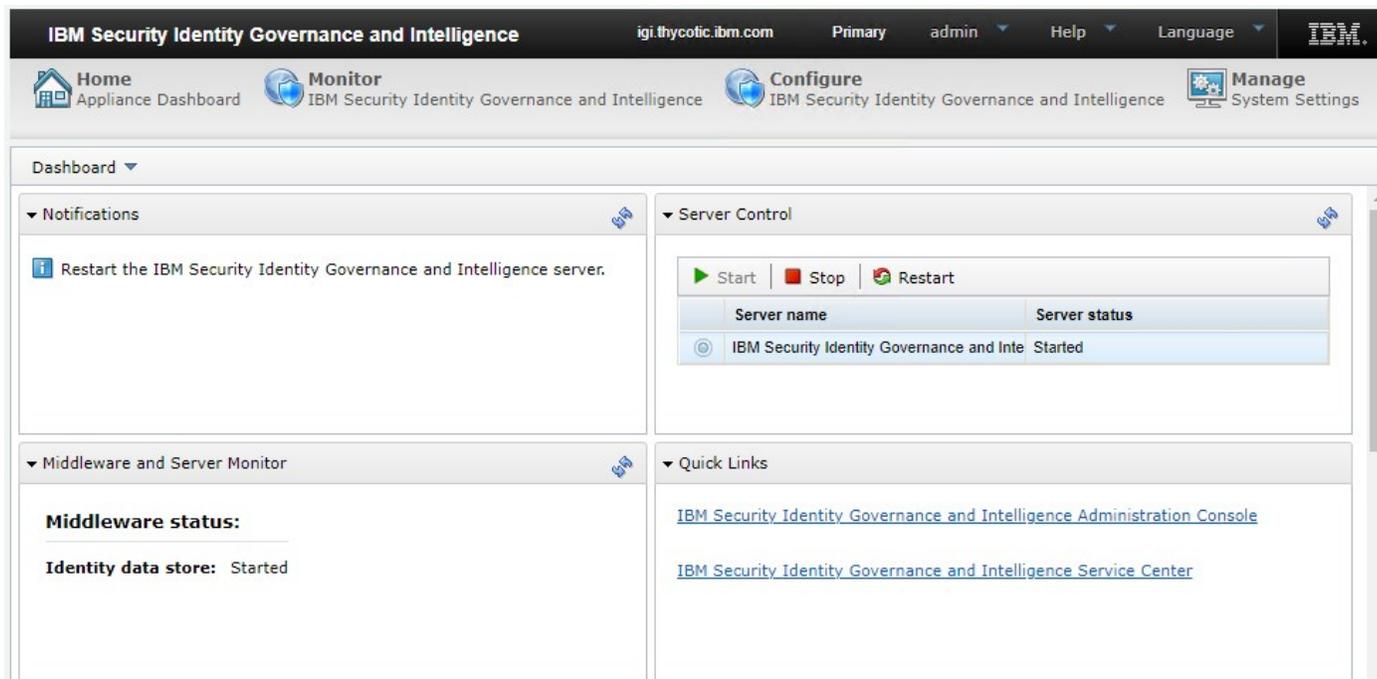
You can import the attribute mapping files using the IBM IGI Administration Console.

1. Go to **IBM Security Identity Governance and Intelligence** administrative UI.



The screenshot shows the login interface for the IBM Security Identity Governance and Intelligence administrative UI. It features the IBM logo at the top, followed by the text "IBM Security Identity Governance and Intelligence". Below this, there are two input fields: "User name:" and "Password:". A "Login" button is positioned below the password field. At the bottom of the page, the copyright notice "© Copyright 2001, 2019 IBM Corporation" is displayed.

2. Fill in the required information, such as user name, password, and click **Login**. The **IBM IGI Administration Console** dashboard appears.



**IBM Security Identity Governance and Intelligence** | igi.thycotic.ibm.com | Primary | admin | Help | Language | IBM.

**Home** Appliance Dashboard | **Monitor** IBM Security Identity Governance and Intelligence | **Configure** IBM Security Identity Governance and Intelligence | **Manage** System Settings

**Dashboard**

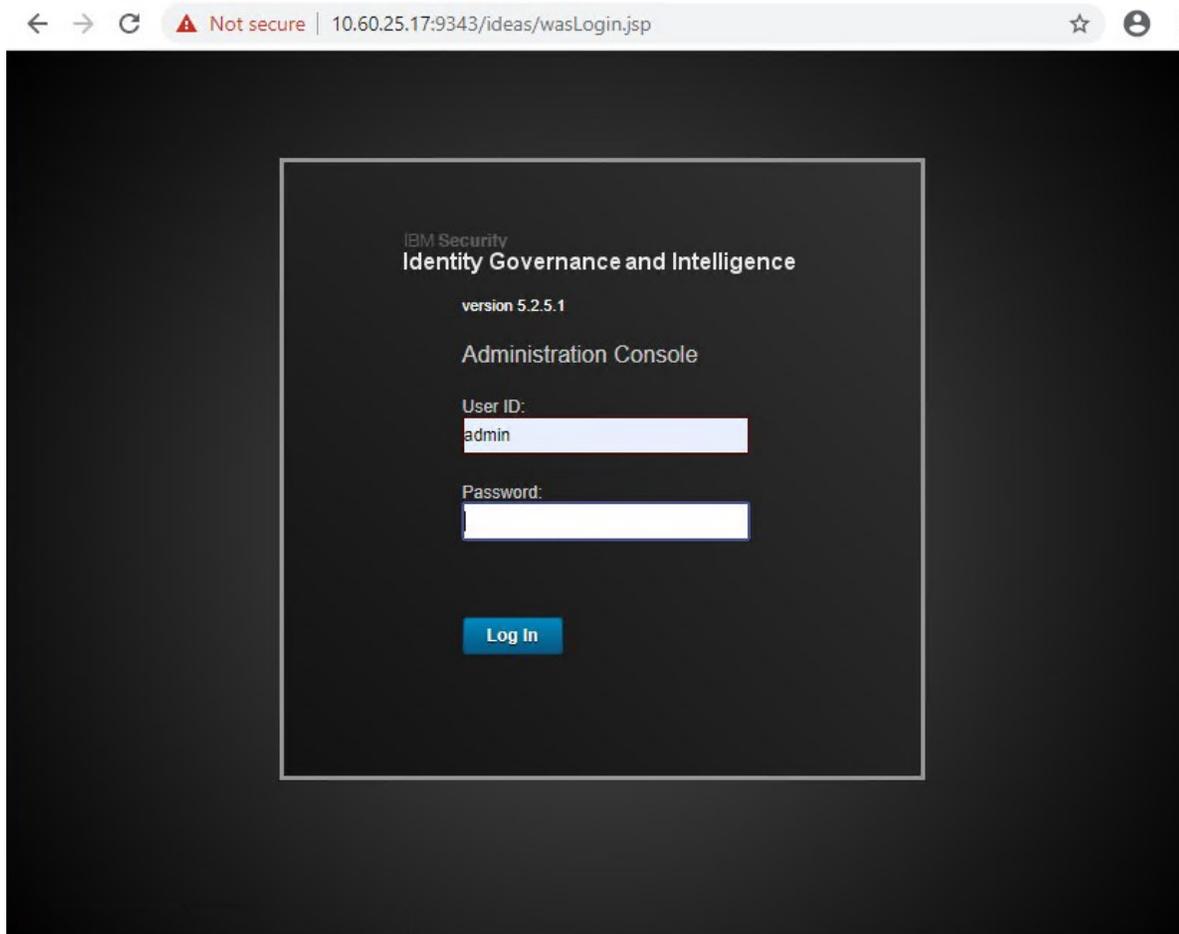
- Notifications**
  - Restart the IBM Security Identity Governance and Intelligence server.
- Server Control**
  - Start | Stop | Restart

Server name	Server status
IBM Security Identity Governance and Inte	Started
- Middleware and Server Monitor**
  - Middleware status:**
  - Identity data store:** Started
- Quick Links**
  - [IBM Security Identity Governance and Intelligence Administration Console](#)
  - [IBM Security Identity Governance and Intelligence Service Center](#)

3. In the **Quick Links** section, click **IBM Security Identity Governance and Intelligence Administration Console**.

**Note:** If you have a self-signed certificate, you may get a 'site can't be reached' message in that case you need to use the IP Address instead of domain name.

4. The **IBM IGI Administration Console** login page appears.



5. Fill in the required information, such as user ID, password, and click **Login**. The **IBM IGI Administration Console** UI appears.

IBM Security Identity Governance and Intelligence Ideas / admin Help Logout IBM

<ul style="list-style-type: none"> <li>Business Activity Mapping management</li> <li>Risk and others violations detection</li> <li>What-if analysis on users and roles</li> </ul>	<ul style="list-style-type: none"> <li>Custom policy modeling</li> <li>Role violation detection</li> <li>What-if analysis on users and roles</li> </ul>
 <p><b>Process Designer</b></p> <ul style="list-style-type: none"> <li>Process flow modeling</li> <li>Certification campaigns definition</li> <li>End user GUI design and localization</li> </ul>	 <p><b>Report Designer</b></p> <ul style="list-style-type: none"> <li>Query editing and testing</li> <li>Report layout and localization</li> <li>User's visibility restrictions</li> </ul>
 <p><b>Enterprise Connectors</b></p> <ul style="list-style-type: none"> <li>Technical connection configuration</li> <li>Matching and transformation rules</li> <li>Status monitoring and administration</li> </ul>	 <p><b>Task Planner</b></p> <ul style="list-style-type: none"> <li>Job and task modeling</li> <li>Schedule and dependency management</li> <li>Status and performance checks</li> </ul>

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- Click **Enterprise Connectors**. The **Enterprise Connectors** page with the **Monitor** tab selected appears.

IBM Security Identity Governance and Intelligence Enterprise Connectors Ideas / admin Help Logout IBM

Manage Monitor Settings

Connector Status Reconciliation Status Change Log Sync Status

Connector Status Connector Status Details Connector History

Actions

Ac...	Name	Writ...	Read Fr...	St...	Last Run / S...

Items per page 50 | Results 0 << < 1 of 1

Save Cancel

Details

Name

Description

Message

Last Run / Start

Last Run / Elapsed

Schedule Details

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7. Click **Manage | Profiles**.

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Manage Monitor Settings

Connectors Profiles Profile Types

Actions

Profile Name	Description	Entity	Type
Csv		Account, User	CSV
Csv Snapshot		Account, User	CSV
Jdbc Query		Account, User	JDBC
Jdbc Snapshot		Account, User	JDBC
Ldap		Account, User	LDAP
LDAP profile		Account	Identity Brokerage
Idap Snapshot		User	LDAP
POSIX AIX profile		Account	Identity Brokerage
POSIX HP-UX profile		Account	Identity Brokerage
POSIX Linux profile		Account	Identity Brokerage
POSIX Solaris profile		Account	Identity Brokerage
SAP-R3 JCOv3		Account	SAPR3

8. In the **Actions** list, click **Import**.

IBM Security Identity Governance and Intelligence Enterprise Connectors Ideas / admin Help Logout IBM

Manage Monitor Settings

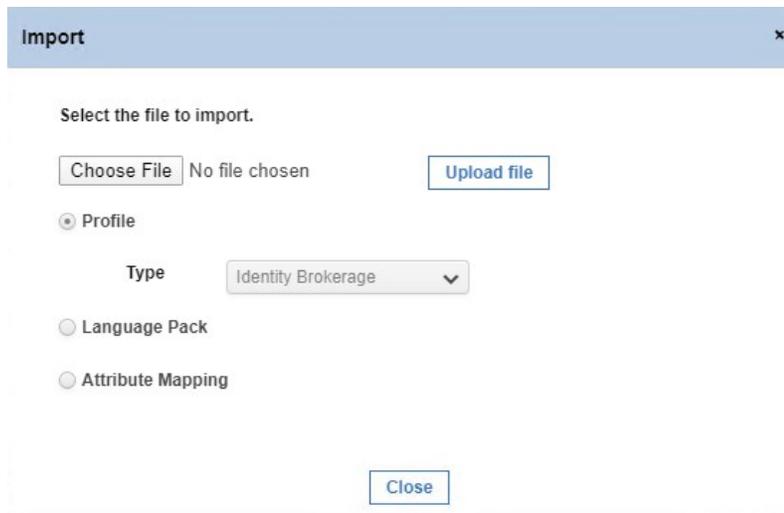
Connectors Profiles Profile Types

Actions

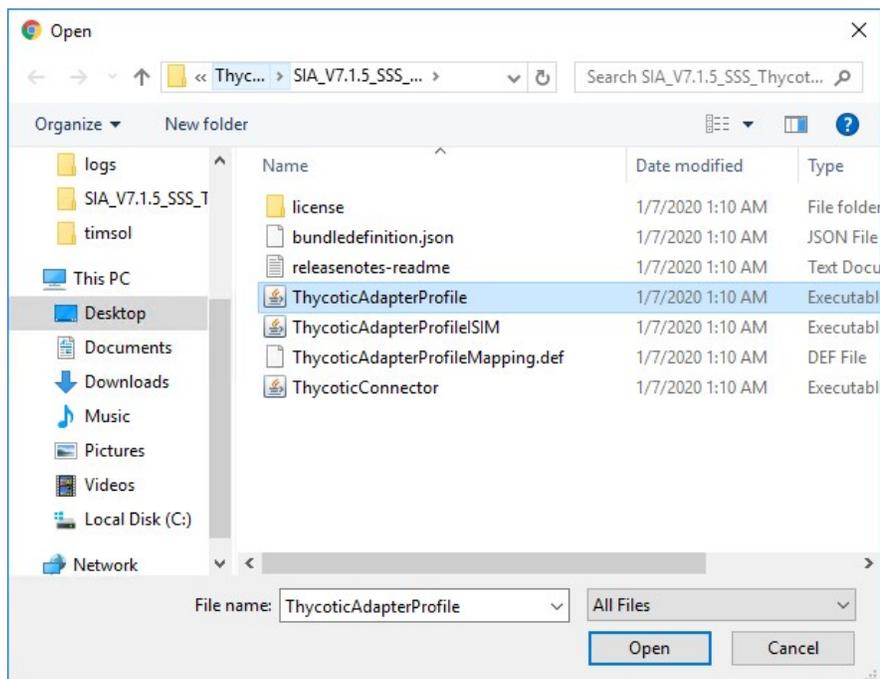
Profile Name	Description	Entity	Type
Csv		Account, User	CSV
Csv Snapshot		Account, User	CSV
Jdbc Query		Account, User	JDBC
Jdbc Snapshot		Account, User	JDBC
Ldap		Account, User	LDAP
LDAP profile		Account	Identity Brokerage
Idap Snapshot		User	LDAP
POSIX AIX profile		Account	Identity Brokerage
POSIX HP-UX profile		Account	Identity Brokerage
POSIX Linux profile		Account	Identity Brokerage
POSIX Solaris profile		Account	Identity Brokerage
SAP-R3 JCOv3		Account	SAPR3

Remove  
Import  
Register  
Edit

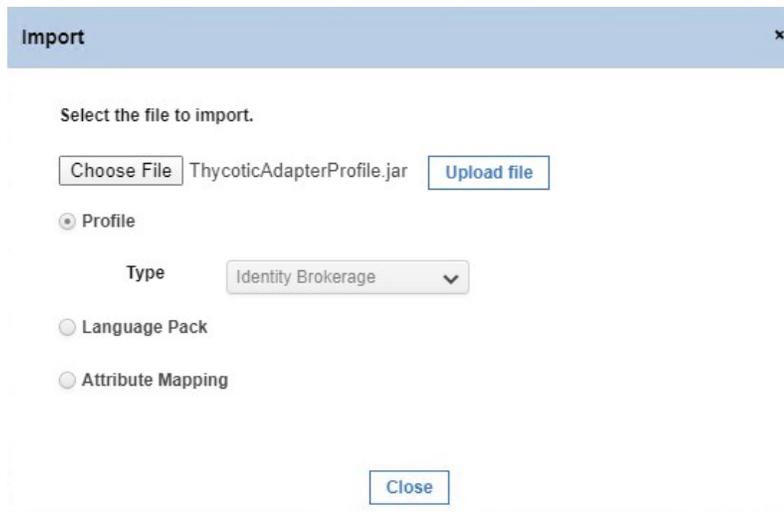
9. The **Import** dialog box appears.



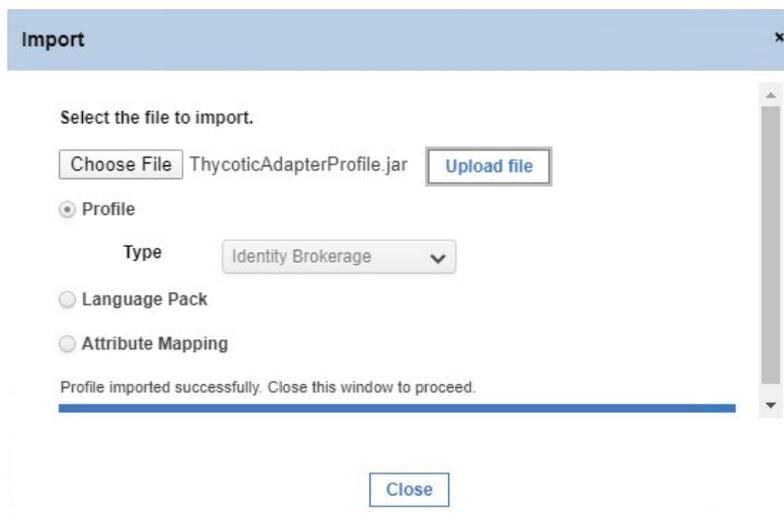
10. Click **Choose File**. The **Open** dialog box appears.



11. Navigate to the ThycoticAdapterProfile file and click **Open**.



12. Click **Upload file**. A message, '**Profile imported successfully. Close this window to proceed.**' appears.
13. Click **Close**.



14. In the **Enterprise Connectors** page, Click **Manage I Profiles**.

IBM Security Identity Governance and Intelligence Enterprise Connectors Ideas / admin Help Logout IBM

Manage Monitor Settings

Connectors Profiles Profile Types

Actions

Profile Name	Description	Entity	Type
Csv		Account, User	CSV
Csv Snapshot		Account, User	CSV
Jdbc Query		Account, User	JDBC
Jdbc Snapshot		Account, User	JDBC
Ldap		Account, User	LDAP
LDAP profile		Account	Identity Brokerage
Idap Snapshot		User	LDAP
POSIX AIX profile		Account	Identity Brokerage
POSIX HP-UX profile		Account	Identity Brokerage
POSIX Linux profile		Account	Identity Brokerage
POSIX Solaris profile		Account	Identity Brokerage
SAP-R3 JCOv3		Account	SAPR3
Thycotic Profile	Thycotic Adapter Service Profile	Account	Identity Brokerage

Items per page 50 | Results 13 << < 1 of 1 > >>

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15. In the **Actions** list, click **Import**. The **Import** dialog box appears.

**Import** x

Select the file to import.

Choose File No file chosen Upload file

Profile

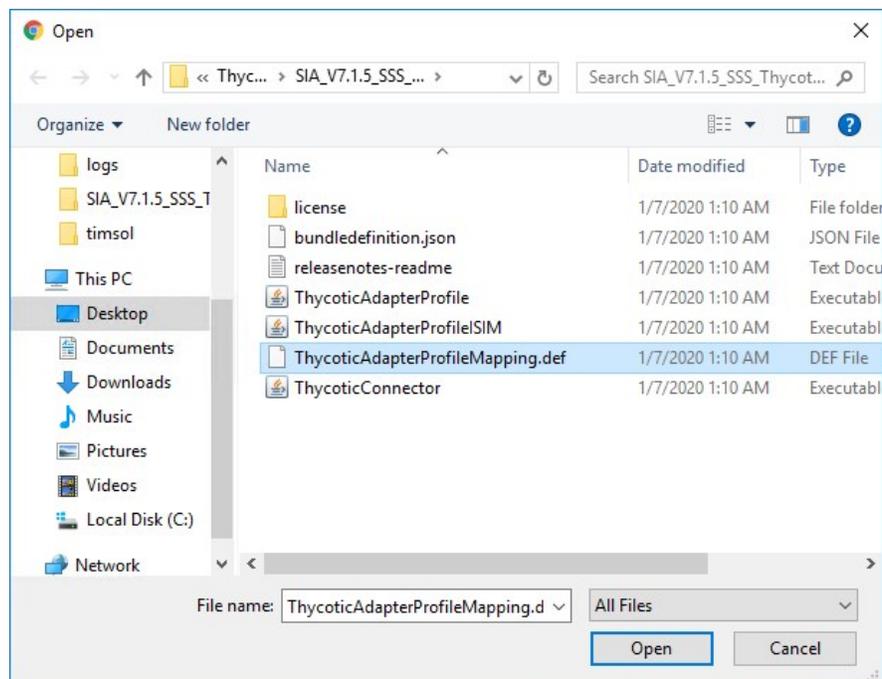
Type Identity Brokerage

Language Pack

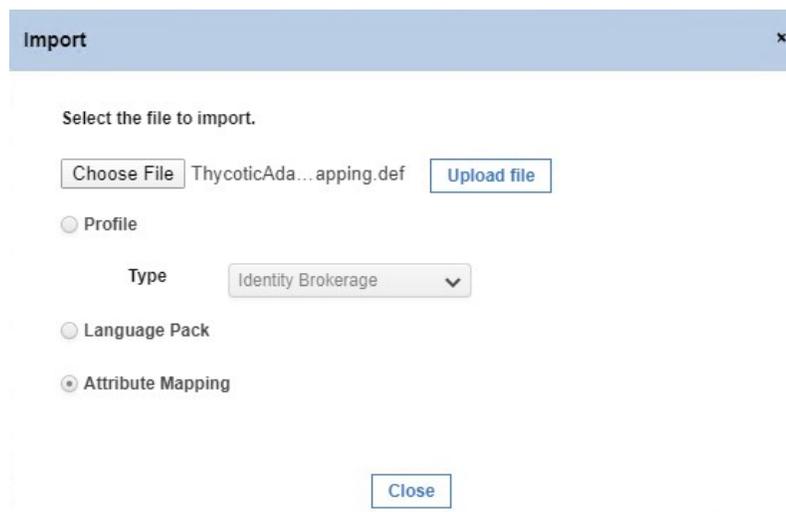
Attribute Mapping

Close

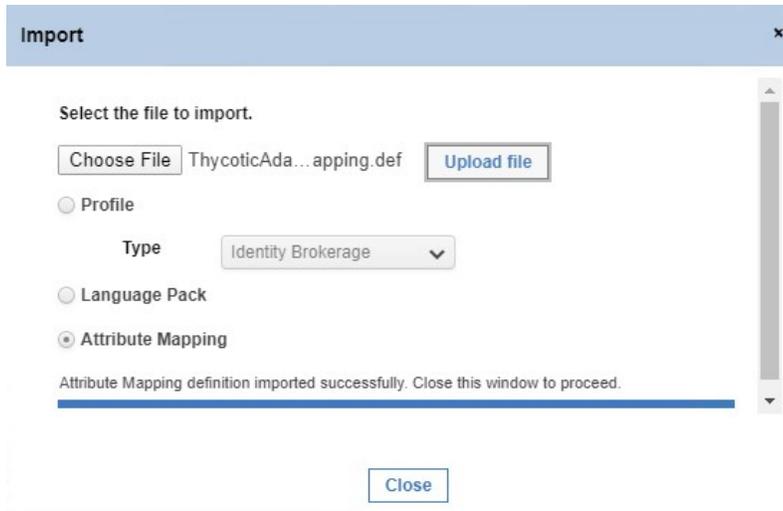
16. Select **Attribute Mapping** option and click **Choose File**. The **Open** dialog box appears.



17. Navigate to the ThycoticAdapterProfileMapping.def file, and click **Open**.



18. Click **Upload file**. A message, '**Attribute Mapping defining imported successfully. Close this window to proceed.**' appears.



19. Click **Close**.

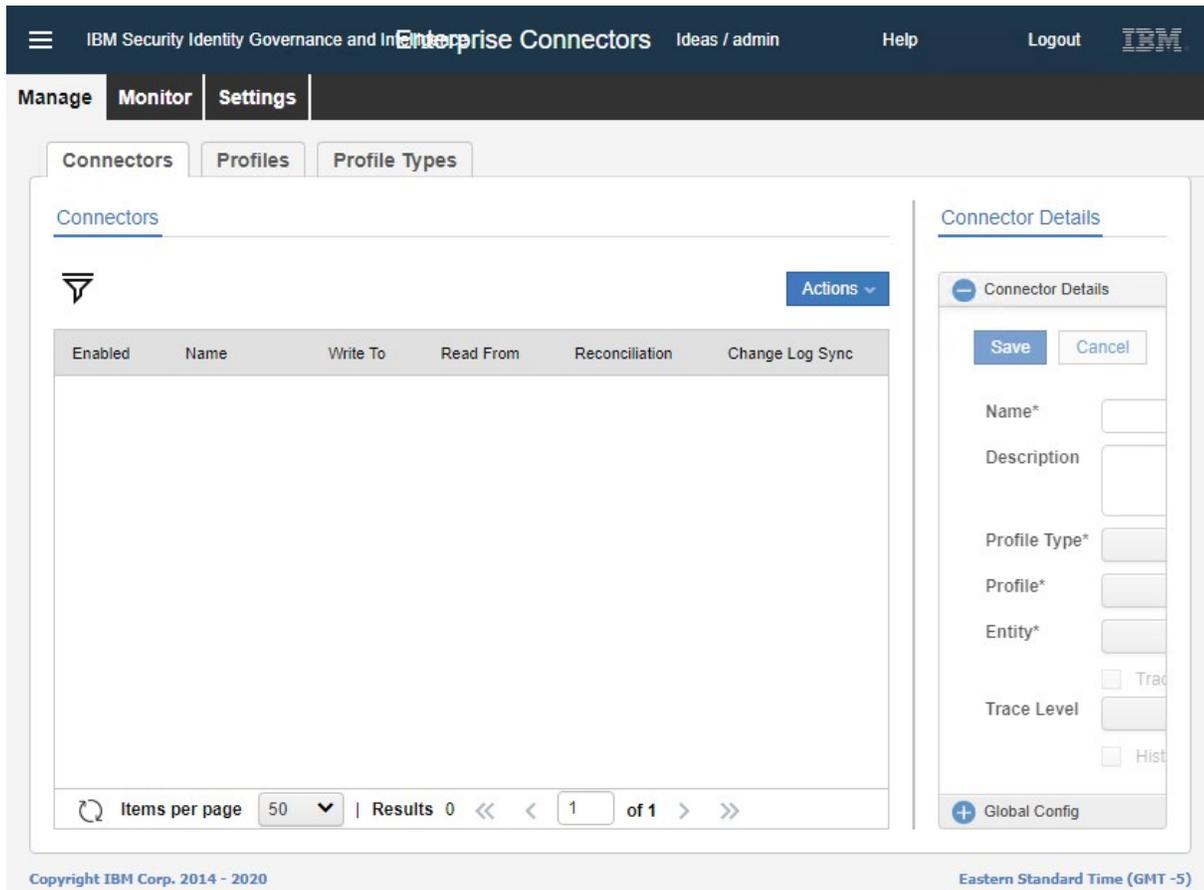
The attribute mapping definition is imported successfully.

## Configure the connector

The next step is to configure the connector.

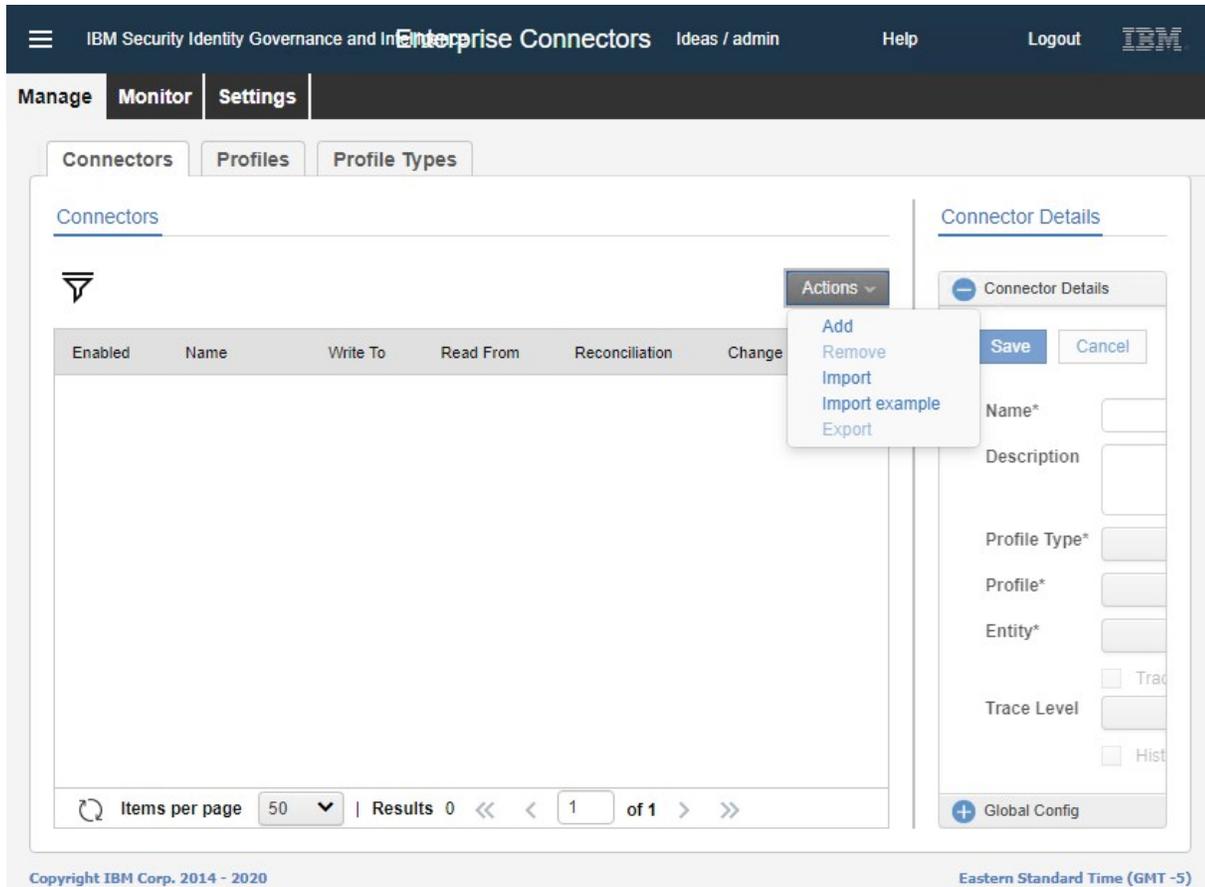
### To configure the Connector:

1. Click **Manage | Connectors**.



The screenshot displays the IBM Security Identity Governance and Intelligence Enterprise Connectors management interface. The top navigation bar includes 'Enterprise Connectors', 'Ideas / admin', 'Help', and 'Logout'. The main navigation tabs are 'Manage', 'Monitor', and 'Settings'. Under 'Manage', there are sub-tabs for 'Connectors', 'Profiles', and 'Profile Types'. The 'Connectors' sub-tab is active, showing a table with columns: Enabled, Name, Write To, Read From, Reconciliation, and Change Log Sync. An 'Actions' dropdown menu is located in the top right of the table area. The table currently shows one connector. At the bottom of the table, there is a pagination control showing 'Items per page 50', 'Results 0', and '1 of 1'. On the right side, the 'Connector Details' panel is open, featuring a 'Save' button and a 'Cancel' button. The details panel includes input fields for 'Name\*', 'Description', 'Profile Type\*', 'Profile\*', and 'Entity\*'. There are also checkboxes for 'Trace Level' (with 'Trac' and 'Hist' options) and a 'Global Config' button at the bottom.

2. In the **Actions** list, click **Add**.



IBM Security Identity Governance and Intelligence Enterprise Connectors Ideas / admin Help Logout IBM

Manage Monitor Settings

Connectors Profiles Profile Types

Connectors

Connector Details

Actions

- Add
- Remove
- Import
- Import example
- Export

Save Cancel

Name\*

Description

Profile Type\*

Profile\*

Entity\*

Trace Level

Trace

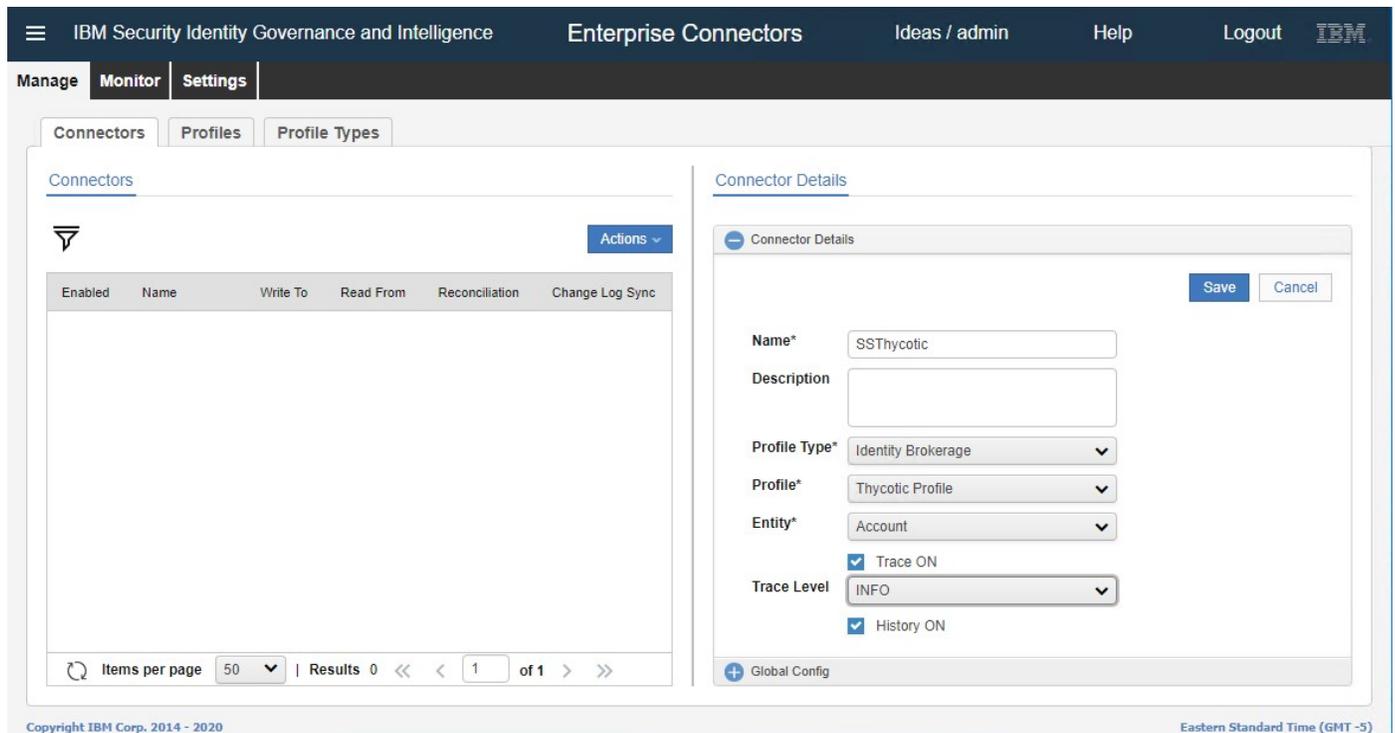
History

Global Config

Items per page 50 | Results 0 << < 1 of 1 > >>

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3. In the **Connector Details** section, fill in the required information.



IBM Security Identity Governance and Intelligence Enterprise Connectors Ideas / admin Help Logout IBM

Manage Monitor Settings

Connectors Profiles Profile Types

Connectors

Actions

Enabled	Name	Write To	Read From	Reconciliation	Change Log Sync

Items per page 50 | Results 0 << < 1 of 1 > >>

Connector Details

Connector Details

Save Cancel

Name\* SSThycotic

Description

Profile Type\* Identity Brokerage

Profile\* Thycotic Profile

Entity\* Account

Trace ON

Trace Level INFO

History ON

Global Config

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- a. **Name** - Type the name of the connector.
  - b. **Profile Type** - Select Identity Brokerage.
  - c. **Profile** - Select Thycotic Profile.
  - d. **Entity** - Select Account.
  - e. **Trace ON** - Select the check box.
  - f. **Trace Level** - Select INFO.
  - g. **History ON** - Select the check box
4. Click **Save**. More options are available for selection.

IBM Security Identity Governance and Intelligence Enterprise Connectors Ideas / admin Help Logout

Manage Monitor Settings

Connectors Profiles Profile Types

Connectors

Enabled	Name	Write To	Read From	Reconciliation	Change Log Sync
<input type="checkbox"/>	SSThycotic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Items per page 50 | Results 1 of 1

Connector Details Driver Configuration Driver Attributes List

Connector Details

Save Cancel

Enabled

Channel Mode  Enable write-to channel  Enable read-from channel

Name\* SSThycotic

Description

Profile Type\* Identity Brokerage

Profile\* Thycotic Profile

Entity\* Account

Trace ON

Trace Level INFO

Global Config

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5. Select the check boxes: **Enabled**, **Enable write-to channel**, and **Enable read-from channel**.
6. click **Save**.
7. Click **Driver Configuration** tab and fill in the required details.

IBM Security Identity Governance and Intelligence Enterprise Connectors Ideas / admin Help Logout

Manage Monitor Settings

Connectors Profiles Profile Types

Connectors

Enabled	Name	Write To	Read From	Reconciliation	Change Log Sync
<input checked="" type="checkbox"/>	SSThycotic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Items per page 50 | Results 1 of 1

Connector Details Driver Configuration Driver Attributes List Channel-Write

Driver

Test Connection Save Cancel

Events Marker

Service Information\*

Mandatory	Name	Value	Description
<input checked="" type="checkbox"/>	Tivoli Directory Integrator location	rmi://localhost:1099/ITDIDis	
<input checked="" type="checkbox"/>	Secret Server URL		
<input checked="" type="checkbox"/>	Secret Server User ID		
<input checked="" type="checkbox"/>	Secret Server Password		

Dispatcher Attributes

Status and information

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- a. **Tivoli Directory Integration location** - Type the IP Address of the Dispatcher where the Dispatcher is installed.
  - b. **Secret Server URL** - Type the secret server URL
  - c. **Secret Server User ID** - Type the secret server user ID.
  - d. **Secret Server Password** - Type the password.
8. Click **Save**.

Connector Details Driver Configuration Driver Attributes List Channel-Write To Channel-Read From

Driver

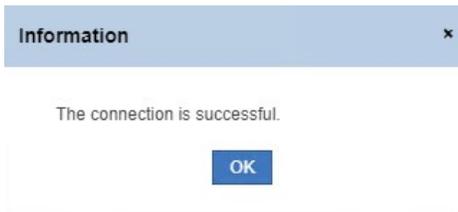
Events Marker SSThycotic

---

Service Information\*

Mandatory	Name	Value	Description
✔	Tivoli Directory Integrator location	rmi://10.60.25.15:1099/ITDIDispatcher	(i)
✔	Secret Server URL	https://secretserver16.integrations.thycotic.com/SecretServer/	(i)
✔	Secret Server User ID	admin	(i)
✔	Secret Server Password	*****	(i)

9. In the **Driver** section, on the upper-right click **Save**.
10. Click **Test Connection**. If the connection is successful, a message, **'The connection is successful.'** appears. Click **Ok**.



11. Click **Channel-Write To** tab | **Mapping**.

IBM Security Identity Governance and Intelligence Enterprise Connectors Ideas / admin Help Logout IBM

Manage Monitor Settings

Connectors Profiles Profile Types

Connectors

Enabled	Name	Write To	Read From	Reconciliation	Change Log Sync
	SSThycotic				

Items per page 50 | Results 1 of 1

Connector Details Driver Configuration Driver Attributes List Channel-Write To Channel-Read From

Events Queue — Pre Mapping Rules — Mapping — Post Mapping Rules — Target

Response Rules

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12. Verify the presence of the mapping files.

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Manage Monitor Settings

Connectors Profiles Profile Types

Connectors

Enabled	Name	Write To	Read From	Reconciliation	Change Log Sync
	SSThycotic				

Items per page 50 | Results 1 of 1

Connector Details Driver Configuration Driver Attributes List Channel-Write To Channel-Read From

Events Queue — Pre Mapping Rules — Mapping — Post Mapping Rules — Target

Response Rules

ThycoticAdapterAccount

Key	Target Attribute	Mapped Class	Mapped Governance Attribute
	erAccountStatus		
	erpassword	ACCOUNT	PASSWORD
	erThycoticDisplayName*	ACCOUNT	DISPLAY_NAME
	erThycoticEmailAddress	ACCOUNT	EMAIL
	erThycoticIsAppAccount		

Results 10 of 1

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13. Click **Channel-Read From** tab | **Mapping**.

Connector Details   Driver Configuration   Driver Attributes List   Channel-Write To   Channel-Read From



Events Queue



Post Mapping Rules



Mapping



Pre Mapping Rules



Target

14. Verify the presence of the mapping files.

Connector Details   Driver Configuration   Driver Attributes List   Channel-Write To   Channel-Read From



Events Queue



Post Mapping Rules



Mapping



Pre Mapping Rules



Target

ACCOUNT



Action

Key	Governance Attribute		Mapped Class	Mapped Target Attribute
	CODE*	<a href="#">Unmap</a>	ThycoticAdapterAccount	eruid
	DISABLED	<a href="#">Map</a>		
	DISPLAY_NAME	<a href="#">Unmap</a>	ThycoticAdapterAccount	erThycoticDisplayName
	DN	<a href="#">Map</a>		
	EMAIL	<a href="#">Unmap</a>	ThycoticAdapterAccount	erThycoticEmailAddress
	EXPIRE	<a href="#">Map</a>		
	LAST_ACCESS_DATE	<a href="#">Map</a>		
	LAST_PWD_CHANGE	<a href="#">Map</a>		
	LAST_WRONG_LOGIN	<a href="#">Map</a>		
	NAME	<a href="#">Map</a>		
	NUMBER_LOGIN_ERROR	<a href="#">Unmap</a>	ThycoticAdapterAccount	erThycoticLoginFailures
	PASSWORD	<a href="#">Unmap</a>	ThycoticAdapterAccount	erpassword
	SPARE_ATTR10	<a href="#">Map</a>		
	SPARE_ATTR11	<a href="#">Map</a>		
	SPARE_ATTR12	<a href="#">Map</a>		
	SPARE_ATTR13	<a href="#">Map</a>		

15. Click **Monitor | Connector Status**.

IBM Security Identity Governance and Intelligence Enterprise Connectors Ideas / admin Help Logout IBM

Manage Monitor Settings

Connector Status Reconciliation Status Change Log Sync Status

Connector Status

Active	Name	Write ...	Read From	Status	Last Run
Stopped	SSThycotic			Stopped	

Items per page 50 | Results 1 of 1

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16. Select the connector.

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Manage Monitor Settings

Connector Status Reconciliation Status Change Log Sync Status

Connector Status

Active	Name	Write ...	Read From	Status	Last Run
Stopped	SSThycotic			Stopped	

Items per page 50 | Results 1 of 1

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17. In the **Schedule Details | Frequency** list, select the value as 20 seconds and then select **Effective Immediately**.

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Manage Monitor Settings

Connector Status Reconciliation Status Change Log Sync Status

Connector Status

Active	Name	Write ...	Read From	Status	Last Run
Stopped	SSThycotic	o-o	o-o	Stopped	

Items per page 50 Results 1 of 1

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18. In the **Actions** list, click Start.

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Manage Monitor Settings

Connector Status Reconciliation Status Change Log Sync Status

Connector Status

Active	Name	Write ...	Read From	Status	Last Run
Stopped	SSThycotic	o-o	o-o	Stopped	

Items per page 50 Results 1 of 1

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19. The **Information** dialog box appears. Click **Ok**.

**Information**

You must synchronize the change log for the new connector by selecting Monitor > Change Log Sync Status.

Select the new connector, and do one of the following procedures:

- Run a Sync Now action.
- Define a synchronization schedule.

[OK](#)

20. Click **Monitor | Change Log Sync Status**.

The screenshot shows the IBM Security Identity Governance and Intelligence Enterprise Connectors interface. The top navigation bar includes 'IBM Security Identity Governance and Intelligence', 'Enterprise Connectors', 'Ideas / admin', 'Help', and 'Logout'. Below this, there are tabs for 'Manage', 'Monitor', and 'Settings'. The 'Monitor' tab is active, and the 'Change Log Sync Status' sub-tab is selected.

The main content area is divided into two panels. The left panel, titled 'Connectors', contains a table with the following data:

Name	Read From	Status
SSThycotic		Stopped

Below the table, there is a pagination control showing 'Items per page 50', 'Results 1', and '1 of 1'. The right panel, titled 'Status Details', contains a form for configuring the sync status. It includes fields for 'Name', 'Description', and 'Message'. Below these are fields for 'Last Run / Start' and 'Last Run / Elapsed'. The 'Schedule' section includes a 'Frequency' dropdown set to 'Once', an 'Effective Immediately' checkbox checked, and an 'Effective Date' field with a calendar icon and time selection (01:00 AM). 'Save' and 'Cancel' buttons are located at the top right of the details panel.

21. Select the connector.

22. In the **Actions list**, click **Sync Now**.

IBM Security Identity Governance and Intelligence Enterprise Connectors Ideas / admin Help Logout IBM

Manage Monitor Settings

Connector Status Reconciliation Status Change Log Sync Status

Connectors

Name	Read From	Status
SSThycotic	••	Stopped

Actions

- Sync Now
- Cancel
- Start
- Stop
- Reset
- Cancel Reset

Save Cancel

Status Details Sync History

Name SSThycotic

Description

Message

Last Run / Start

Last Run / Elapsed

Schedule

Frequency Once

Effective Immediately

Effective Date Jan 13, 2020 03 : 13 AM

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23. To verify the sync, on the right-hand side click **Sync History**. The sync must be completed.

IBM Security Identity Governance and Intelligence Enterprise Connectors Ideas / admin Help Logout IBM

Manage Monitor Settings

Connector Status Reconciliation Status Change Log Sync Status

Connectors

Name	Read From	Status
SSThycotic	••	Stopped

Actions

Status Details Sync History

Status	Request ID	Started	Completed	Request Details
✓	3199316127	Jan 13, 2020, 4:08:59 AM	Jan 13, 2020, 4:09:11 AM	

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24. In the menu on the left-hand side, click **Access Governance Core**.

IBM Security Identity Governance and Intelligence Enterprise Connectors Ideas / admin Help Logout IBM

Home  
Access Governance Core  
Access Optimizer  
Access Risk Controls  
Access Risk Controls for SAP  
Process Designer  
Report Designer  
**Enterprise Connectors**  
Task Planner  
Logout

Current Realm: Ideas  
Last login: Jan 13, 2020, 2:50:54 AM

Change Log Sync Status

Status Stopped

Actions

Status Details Sync History

Status	Request ID	Started	Completed	Request Details
✓	3199316127	Jan 13, 2020, 4:08:59 AM	Jan 13, 2020, 4:09:11 AM	

Results 1 of 1

Eastern Standard Time (GMT -5)

25. The **Access Governance Core** UI appears.

IBM Security Identity Governance and Intelligence Access Governance Core Ideas / admin Help Logout IBM

Manage Configure Monitor Tools Settings

Users Groups Roles Applications Account Configurations Password Sync Configurations Resources

Users

Risk	First Name	Last Name	Master UID	Org. Unit

Items per page 50 Results 0 of 1

Details Entitlements User Resources Accounts Rights Mitigation Fulfillment Events Activities

Details

Save Cancel

System Data

User Type

OU Master

Master UID

System UID

Personal Data

SSN/Fiscal Code

Gender

Date of Birth

Place of Birth

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26. Click **Manage | Applications**.

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Manage Configure Monitor Tools Settings

Users Groups Roles Applications Account Configurations Password Sync Configurations Resources

Applications

Risk	Name	Description	Account
	ISIM	Application for ISIM Tar...	ISIM
	SSThycotic		SSThyc...

Items per page 50 | Results 2

Details Application Access Users Analysis Permission Type

Info

Owner

Name

Description

Policy

Go to the account management section to change configuration.

System Account IDEAS

Custom Account SSThycotic

Disable out/target events generation

Application Properties

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27. Select the account.

IBM Security Identity Governance and Intelligence Access Governance Core Ideas / admin Help Logout IBM

Manage Configure Monitor Tools Settings

Users Groups Roles Applications Account Configurations Password Sync Configurations Resources

Applications

Risk	Name	Description	Account
	ISIM	Application for ISIM Tar...	ISIM
<input checked="" type="checkbox"/>	SSThycotic		SSThyc...

Items per page 50 | Results 2

Details Application Access Users Analysis Permission Type

Info

Owner

Name SSThycotic

Description

Policy

Go to the account management section to change configuration.

System Account IDEAS

Custom Account SSThycotic

Disable out/target events generation

Application Properties

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28. On the right-hand side, click **Application Access**. All the information from Secret Server appears.

IBM Security Identity Governance and Intelligence | Access Governance Core | Ideas / admin | Help | Logout | IBM

Manage | **Configure** | Monitor | Tools | Settings

Users | Groups | Roles | Applications | **Account Configurations** | Password Sync Configurations | Resources

Applications

Risk	Name	Description	Account
	ISIM	Application for ISIM Tar...	ISIM
<input checked="" type="checkbox"/>	SSThycotic		SSThyc...

Details | Application Access | Users | Analysis | Permission Type

Details | Properties | Parent Hierarchy <>

Save | Cancel

Name:

Code:

External Reference:

Attribute Name:

Description:

Permission Type:

Owner:

Expiration:

Last Review Date:

Items per page: 50 | Results: 18 | 1 of 1

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29. Click **Manage | Account Configurations**.

IBM Security Identity Governance and Intelligence | Access Governance Core | Ideas / admin | Help | Logout | IBM

Manage | **Configure** | Monitor | Tools | Settings

Users | Groups | Roles | Applications | **Account Configurations** | Password Sync Configurations | Resources

Account Configurations

Name	Password Sync Group
Ideas	
ISIM	
SSThycotic	

Details | Creation Policy | Management | Password Policy | Accounts | Out of Synchronization | Applications | Attribute <>

Save | Cancel

Name:

Description:

Fulfillment:

Linked Applications

Use buttons below to add a new Out Event Marker or to rename it.

New | Rename | Remove

Items per page: 50 | Results: 3

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30. Select the account.

IBM Security Identity Governance and Intelligence | Access Governance Core | Ideas / admin | Help | Logout | IBM

Manage | **Configure** | Monitor | Tools | Settings

Users | Groups | Roles | Applications | **Account Configurations** | Password Sync Configurations | Resources

Account Configurations

Details | Creation Policy | Management | Password Policy | Accounts | Out of Synchronization | Applications | Attribute <>

Name: SSThycotic

Description: [Empty field]

Fulfillment: Automatic

Linked Applications

Use buttons below to add a new Out Event Marker or to rename it.

[New] [Rename] [Remove]

- [Marker] SSThycotic
  - [Application] SSThycotic

Items per page 50 | Results 3

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31. On the right-hand side, click **Accounts**. All the users of secret server appear.

IBM Security Identity Governance and Intelligence | Access Governance Core | Ideas / admin | Help | Logout | IBM

Manage | **Configure** | Monitor | Tools | Settings

Users | Groups | Roles | Applications | **Account Configurations** | Password Sync Configurations | Resources

Account Configurations

Details | Creation Policy | Management | Password Policy | **Accounts** | Out of Synchronization | Applications | Attribute <>

<input type="checkbox"/>	Suspended	Account ID	Default	Account Ty...	Matching Status
<input type="checkbox"/>		admin			Unmatched
<input type="checkbox"/>		Alen			Unmatched
<input type="checkbox"/>		Alex			Unmatched
<input type="checkbox"/>		Alex1			Unmatched
<input type="checkbox"/>		IBMIGI			Unmatched
<input type="checkbox"/>		Jim			Unmatched
<input type="checkbox"/>		John			Unmatched
<input type="checkbox"/>		Rapid7Admin			Unmatched
<input type="checkbox"/>		RoyalITS			Unmatched
<input type="checkbox"/>		servicenow			Unmatched
<input type="checkbox"/>		Smith			Unmatched
<input type="checkbox"/>		splunkss			Unmatched
<input type="checkbox"/>		TestIBM			Unmatched
<input type="checkbox"/>		testevlson			Unmatched

Items per page 50 | Results 18 of 1

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## Update user details in Secret Server through IBM IGI

1. Click **Account Configurations**.

The screenshot shows the IBM Security Identity Governance and Intelligence (IGI) interface. The top navigation bar includes 'IBM Security Identity Governance and Intelligence', 'Access Governance Core', 'Ideas / admin', 'Help', and 'Logout'. Below this is a secondary navigation bar with 'Manage', 'Configure', 'Monitor', 'Tools', and 'Settings'. The main content area is divided into two panes. The left pane, titled 'Account Configurations', shows a list of Password Sync Groups: 'Ideas', 'ISIM', and 'SSthycotic'. The 'SSthycotic' group is selected. The right pane, titled 'Details', shows the configuration for the 'SSthycotic' account. Fields include 'Name' (SSthycotic), 'Description' (empty), and 'Fulfillment' (Automatic). There is a 'Linked Applications' section with buttons for 'New', 'Rename', and 'Remove'. A table below shows a linked application: '[Application] SSthycotic'. At the bottom of the interface, there is a copyright notice 'Copyright IBM Corp. 2014 - 2020' and the time zone 'Eastern Standard Time (GMT -5)'.

2. Select the account.
3. On the right-hand side, click **Attribute-to-Permission Mapping**.

The screenshot shows the IBM Security Identity Governance and Intelligence (IGI) interface. The top navigation bar is the same as in the previous screenshot. The secondary navigation bar is the same. The main content area is divided into two panes. The left pane is the same as in the previous screenshot. The right pane, titled 'Attribute-to-Permission Mapping', shows a table with columns: 'Permission Name', 'Attribute Name', 'Type', 'Multi-value', and 'Required'. The table is currently empty.

4. In the **Actions** list, click **Discover Account attributes from Target**.

The screenshot shows the IBM Security Identity Governance and Intelligence (IGI) interface. The top navigation bar is the same. The secondary navigation bar is the same. The main content area is divided into two panes. The left pane is the same as in the previous screenshot. The right pane, titled 'Attribute-to-Permission Mapping', shows the same table as in the previous screenshot. An 'Actions' menu is open over the table, showing options: 'Add', 'Remove', 'Edit', 'Discover Account attributes from Target', and 'Enable'.

5. The **Discover Attributes from Target** dialog box appears.

**Discover Attributes from Target**

Import
Cancel

<input type="checkbox"/>	Attribute Name	Type	Required
<input type="checkbox"/>	erThycoticCreateDate	string	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticDisplayName	string	<input checked="" type="checkbox"/>
<input type="checkbox"/>	erThycoticDomainID	integer	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticEmailAddress	string	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticIsAppAccount	boolean	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticIsLockedOut	boolean	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticLastLogin	string	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticLoginFailures	integer	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticUserID	string	<input type="checkbox"/>

↻ | Results 9 << < 1 of 1 > >>

6. Select the **Attribute Name** check box in the header.

**Discover Attributes from Target**

Import
Cancel

<input checked="" type="checkbox"/>	Attribute Name	Type	Required
<input checked="" type="checkbox"/>	erThycoticCreateDate	string	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticDisplayName	string	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticDomainID	integer	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticEmailAddress	string	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticIsAppAccount	boolean	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticIsLockedOut	boolean	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticLastLogin	string	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticLoginFailures	integer	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticUserID	string	<input type="checkbox"/>

↻ | Results 9 << < 1 of 1 > >>

7. Click **Import**. A message, **‘Operation successfully completed.’** appears. Click **Ok**.The files are imported.

**Information** ×

Operation successfully completed.

OK

8. On the right-hand side, click **Target Attributes**.

Account Configurations Password Sync Configurations Resources

Details Creation Policy Management Password Policy Accounts Out of Synchronization Applications Attribute-to-Permission Mapping Target Attributes

Actions ▾

<input type="checkbox"/>	Required	Visible	Editable	Position	Name	Multiple values	Lookup	UI Rendering	Size	Default Value
<input type="checkbox"/>										

9. In the **Actions** list, click **Discover Account attributes from Target**.

Account Configurations Password Sync Configurations Resources

Details Creation Policy Management Password Policy Accounts Out of Synchronization Applications Attribute-to-Permission Mapping Target Attributes

Actions ▾

<input type="checkbox"/>	Required	Visible	Editable	Position	Name	Multiple values	Lookup	UI Rendering	Size	Default Value
<input type="checkbox"/>										

Save Cancel Actions ▾

Discover Account attributes from Target

Add

Remove

10. The **Discover Attributes from Target** dialog box appears.

**Discover Attributes from Target** ✕

<input type="checkbox"/>	Attribute Name	Type	Required
<input type="checkbox"/>	erThycoticCreateDate	string	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticDisplayName	string	<input checked="" type="checkbox"/>
<input type="checkbox"/>	erThycoticDomainID	integer	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticEmailAddress	string	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticIsAppAccount	boolean	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticIsLockedOut	boolean	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticLastLogin	string	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticLoginFailures	integer	<input type="checkbox"/>
<input type="checkbox"/>	erThycoticUserID	string	<input type="checkbox"/>

Results 9 << < 1 of 1 > >>

Import
Cancel

11. Select the **Attribute Name** check box in the header.

**Discover Attributes from Target** x

<input checked="" type="checkbox"/>	Attribute Name	Type	Required
<input checked="" type="checkbox"/>	erThycoticCreateDate	string	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticDisplayName	string	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticDomainID	integer	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticEmailAddress	string	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticIsAppAccount	boolean	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticIsLockedOut	boolean	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticLastLogin	string	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticLoginFailures	integer	<input type="checkbox"/>
<input checked="" type="checkbox"/>	erThycoticUserID	string	<input type="checkbox"/>

Results 9 << < 1 of 1 > >>

12. Click **Import**. A message, **'Operation successfully completed.'** appears. Click **Ok**. The files are imported.



13. On the left-hand side, select the **Users** tab.

IBM Security Identity Governance and Intelligence Access Governance Core

Manage **Configure** Monitor Tools Settings

Users Groups Roles Applications Account Configurations Password Sync Configurations Resources

**Users**

<input type="checkbox"/>	R...	First Name	Last Na...	Master ...	Org.Unit
<input checked="" type="checkbox"/>				Harry	ACME Corp...

Actions ▾

Details Entitlements User Resources Accounts Rights Mitigation Fulfillment Events Activities

System Data

User Type  ▾ ...

OU Master  ...

Master UID

System UID

Identity UID

Account Expiration

First Name

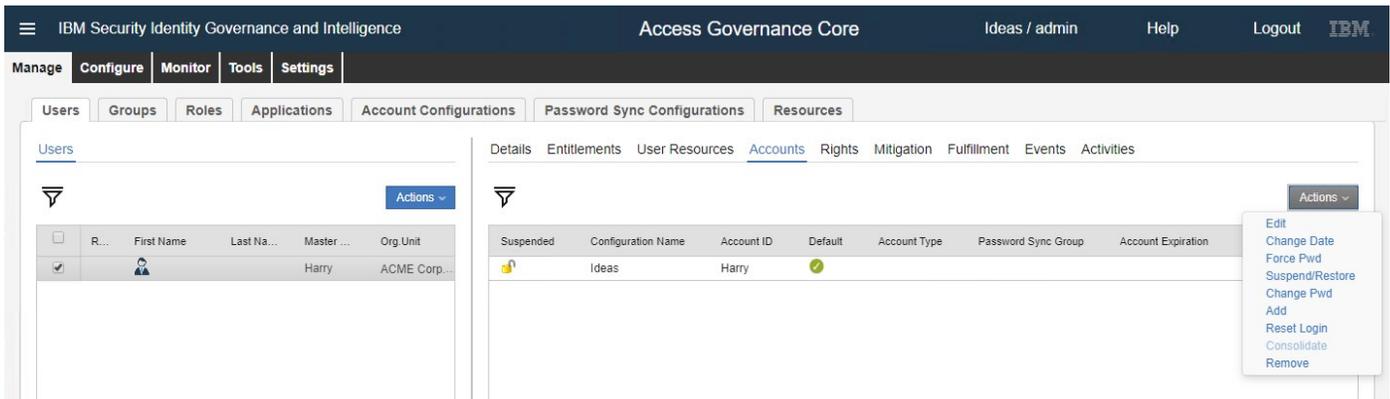
Last Name

14. Select the user.

15. On the right-hand side, click **Accounts**. The master account is listed.



16. In the **Actions** list, click **Add**.



17. The **New Account** dialog box appears.

**New Account** ✕

Account Configuration  ▼ Please, choose an account.

Details

Default\*

Account ID\*  Account Type  ▼ ...

First Name  Last Name

Email  DN

Display Name  Account Expiration Date  📅 ⊖

18. In the **Account Configuration** list, select the Secret Server account. The **Account Creation** tab is selected.

**New Account** x

Account Configuration SSThycotic

Account Creation
Password
Target Attributes

**Application**

Name	Description
SSThycotic	

**Details**

Default\* Yes It is mandatory to have at least one default account.

Account ID\*  Account Type   ⋮

First Name  Last Name

Email  DN

Display Name  Account Expiration Date  📅 ⊖

Previous
Next

Close

19. Go to **Account Creation** tab> **Details** section > **Account ID**.

20. In the **Account ID** text box, type the account ID and click **Next**. The **Password** tab is selected.

**New Account** ✕

Account Configuration SSThycotic ▼

Account Creation Password Target Attributes

Password

New password\*

Confirm password\*

Previous Next Save Cancel

Close

21. Fill in the required information, such as new password, confirm password, and then click **Next**. The **Target Attributes** tab is selected.

**New Account** ✕

Account Configuration SSThycotic ▼

Account Creation Password Target Attributes

**Target Attributes**

Date-time of User creation	<input type="text"/>	User's Display Name*	<input type="text"/>
Domain ID	<input type="text"/>	User Email Address	<input type="text"/>
Is Application Account?	<input type="checkbox"/>	Is Locked out?	<input type="checkbox"/>
Last Login Date-time of User	<input type="text"/>	Number of Login Failures	<input type="text"/>
User ID	<input type="text"/>		

Previous **Save** Cancel

Close

22. In the **User's Display Name** text box, type the display name for the user.
23. Click **Save**. The user is listed in the **Accounts** tab.

IBM Security Identity Governance and Intelligence | Access Governance Core | Ideas / admin | Help | Logout | IBM

Manage | Configure | Monitor | Tools | Settings

Users | Groups | Roles | Applications | Account Configurations | Password Sync Configurations | Resources

Users | Details | Entitlements | User Resources | Accounts | Rights | Mitigation | Fulfillment | Events | Activities

Suspended	Configuration Name	Account ID	Default	Account Type	Password Sync Group	Account Expiration	Force Change Pwd
	Ideas	Harry					
	SSThycotic	Harry					

Items per page 50 | Results 2 | 1 of 1

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24. Click the **Events** tab.

IBM Security Identity Governance and Intelligence | Access Governance Core | Ideas / admin | Help | Logout | IBM

Manage | Configure | Monitor | Tools | Settings

Users | Groups | Roles | Applications | Account Configurations | Password Sync Configurations | Resources

Users | Details | Entitlements | User Resources | Accounts | Rights | Mitigation | Fulfillment | Events | Activities

IN Events

ID	User E...	Operation	Status	Trace	Identification Num...	OU Code	Action Type	Action Reason	Event Date	Process Date
----	-----------	-----------	--------	-------	-----------------------	---------	-------------	---------------	------------	--------------

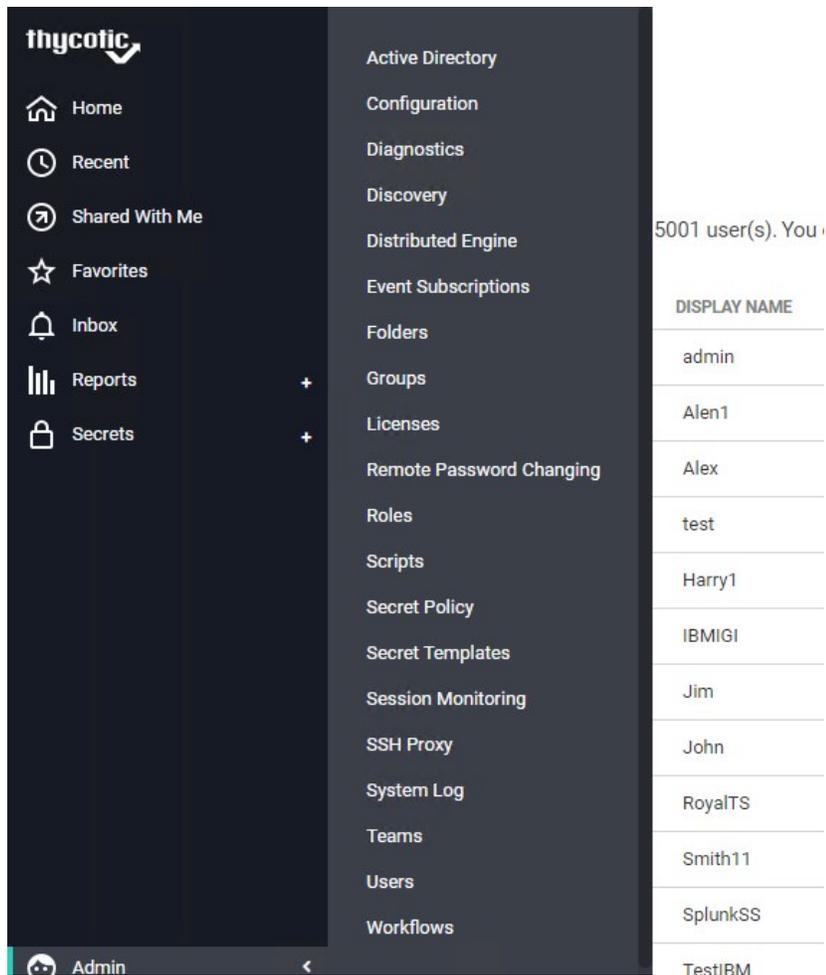
Items per page 50 | Results 0 | 1 of 1

OUT Events

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25. At the bottom of the **Events** tab, click on **OUT Events**. The event is listed. Wait till the **Status** and the **ERC Status** is displayed as **Success**.

26. Go to **Secret Server | Admin | Users**.



27. The user is created in Secret Server. The user name and the display name for the user is displayed.
28. Go to **IBM IGI Administrator console** and in the menu click **Access Governance Core**.
29. Click **Manage** tab **Users | Accounts**.

IBM Security Identity Governance and Intelligence    Access Governance Core    Ideas / admin    Help    Logout    IBM

Manage    **Configure**    Monitor    Tools    Settings

Users    Groups    Roles    Applications    Account Configurations    Password Sync Configurations    Resources

Users

Risk	First Name	Last Name	Master UID	Org. Unit
<input checked="" type="checkbox"/>			Harry	ACME Cor

Items per page 50 | Results 1

Accounts

Suspended	Configuration Name	Account ID	Default	Account Ty...	Password Sync Group	Account Exp
	Ideas	Harry				
	SSThycotic	Harry				

Items per page 50 | Results 2 of 1

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30. Select the account.

31. In the **Action** list, click **Edit**.

IBM Security Identity Governance and Intelligence Access Governance Core Ideas / admin Help Logout IBM

Manage Configure Monitor Tools Settings

Users Groups Roles Applications Account Configurations Password Sync Configurations Resources

Users

Users

Risk	First Name	Last Name	Master UID	Org Unit
<input checked="" type="checkbox"/>			Harry	ACME Cor

Items per page 50 | Results 1

Accounts

Accounts

Suspended	Configuration Name	Account ID	Default	Account Ty...	Password Sync
<input checked="" type="checkbox"/>	Ideas	Harry	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/>	SSThycotic	Harry	<input checked="" type="checkbox"/>		

Items per page 50 | Results 2 of 1

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32. The **Edit Account** dialog box appears.

**Edit Account** ✕

Account Configuration SSThycotic ▼

[Details](#) [Target Attributes](#)

**Application**

Name	Description
SSThycotic	

**Details**

<b>Default*</b>	<span style="border: 1px solid #ccc; padding: 2px;">Yes</span> <span style="font-size: 0.8em;">▼</span>	It is mandatory to have at least one default account.	
<b>Account ID*</b>	<span style="border: 1px solid #ccc; padding: 2px;">Harry</span>	<b>Account Type</b>	<span style="border: 1px solid #ccc; padding: 2px;"> </span> <span style="font-size: 0.8em;">▼</span> <span style="font-size: 0.8em;">⋮</span>
<b>First Name</b>	<span style="border: 1px solid #ccc; padding: 2px;">Harry</span>	<b>Last Name</b>	<span style="border: 1px solid #ccc; padding: 2px;">John</span>
<b>Email</b>	<span style="border: 1px solid #ccc; padding: 2px;">harry123@gmail.co</span>	<b>DN</b>	<span style="border: 1px solid #ccc; padding: 2px;"> </span>
<b>Display Name</b>	<span style="border: 1px solid #ccc; padding: 2px;">Harry2</span>	<b>Account Expiration Date</b>	<span style="border: 1px solid #ccc; padding: 2px;"> </span> <span style="font-size: 0.8em;">📅</span> <span style="font-size: 0.8em;">⊖</span>
<b>Last Login</b>	<span style="border: 1px solid #ccc; padding: 2px;"> </span>	<b>Last Login Error</b>	<span style="border: 1px solid #ccc; padding: 2px;"> </span>

Previous
Next

Close

33. Fill in the required information, such as first name, last name, email, display name, and then click **Next**. The **Target Attributes** tab appears.

**Edit Account** x

Account Configuration SSThycotic v

Details Target Attributes

**Target Attributes**

Date-time of User creation	<input type="text" value="2020-01-13T12:59:44.715Z"/>	User's Display Name*	<input type="text" value="Harry1"/>
Domain ID	<input type="text" value="-1"/>	User Email Address	<input type="text"/>
Is Application Account?	<input type="checkbox"/>	Is Locked out?	<input type="checkbox"/>
Last Login Date-time of User	<input type="text" value="0001-01-01T00:00:00"/>	Number of Login Failures	<input type="text" value="0"/>
User ID	<input type="text" value="20"/>		

Previous
Save
Cancel

Close

34. In the **User's Display Name** text box, change the display name for the user.
35. Click **Save**.
36. Click the **Events** tab.
37. At the bottom of the **Events** section, click **OUT Event**.

IBM Security Identity Governance and Intelligence | Access Governance Core | Ideas / admin | Help | Logout | IBM

Manage | **Configure** | Monitor | Tools | Settings

Users | Groups | Roles | Applications | Account Configurations | Password Sync Configurations | Resources

Users

<input type="checkbox"/>	Risk	First Name	Last Name	Master UID	Org. Unit
<input checked="" type="checkbox"/>				Harry	ACME Cor

Items per page 50 | Results 1

Details | Entitlements | User Resources | Accounts | Rights | Mitigation | Fulfillment | **Events** | Activities

IN Events

<input type="checkbox"/>	ID	User E...	Operation	Status	Trace	Identification Num...	OU Code	Action Type	Action Reason	Ev
--------------------------	----	-----------	-----------	--------	-------	-----------------------	---------	-------------	---------------	----

Items per page 50 | Results 0 | 1 of 1

OUT Events

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38. The event is listed. Wait till the **Status** and the **ERC Status** is displayed as **Success**.

IBM Security Identity Governance and Intelligence | Access Governance Core | Ideas / admin | Help | Logout | IBM

Manage | **Configure** | Monitor | Tools | Settings

Users | Groups | Roles | Applications | Account Configurations | Password Sync Configurations | Resources

Users

<input type="checkbox"/>	Risk	First Name	Last Name	Master UID	Org. Unit
<input checked="" type="checkbox"/>				Harry	ACME Cor

Items per page 50 | Results 1

Details | Entitlements | User Resources | Accounts | Rights | Mitigation | Fulfillment | **Events** | Activities

IN Events

OUT Events

<input type="checkbox"/>	ID	Account ID	Operation	Status	ERC Status	Trace	Marker	ATTR1	ATTR2	ATTR3
<input type="checkbox"/>	156	Harry	Modify Account	Success	Success		SSThycotic	Harry		
<input type="checkbox"/>	155	Harry	Create Account	Success	Success		SSThycotic	Harry	*****	000000

Items per page 50 | Results 2 | 1 of 1

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## Verifying the Integration

### Check user details and change password

If you would like to verify that the integration was successful, you can test this by checking the user details and changing the password.

1. Go to the **Secret Server | Admin | Users**.
2. Click on the user that was added. The details of the user should be updated.

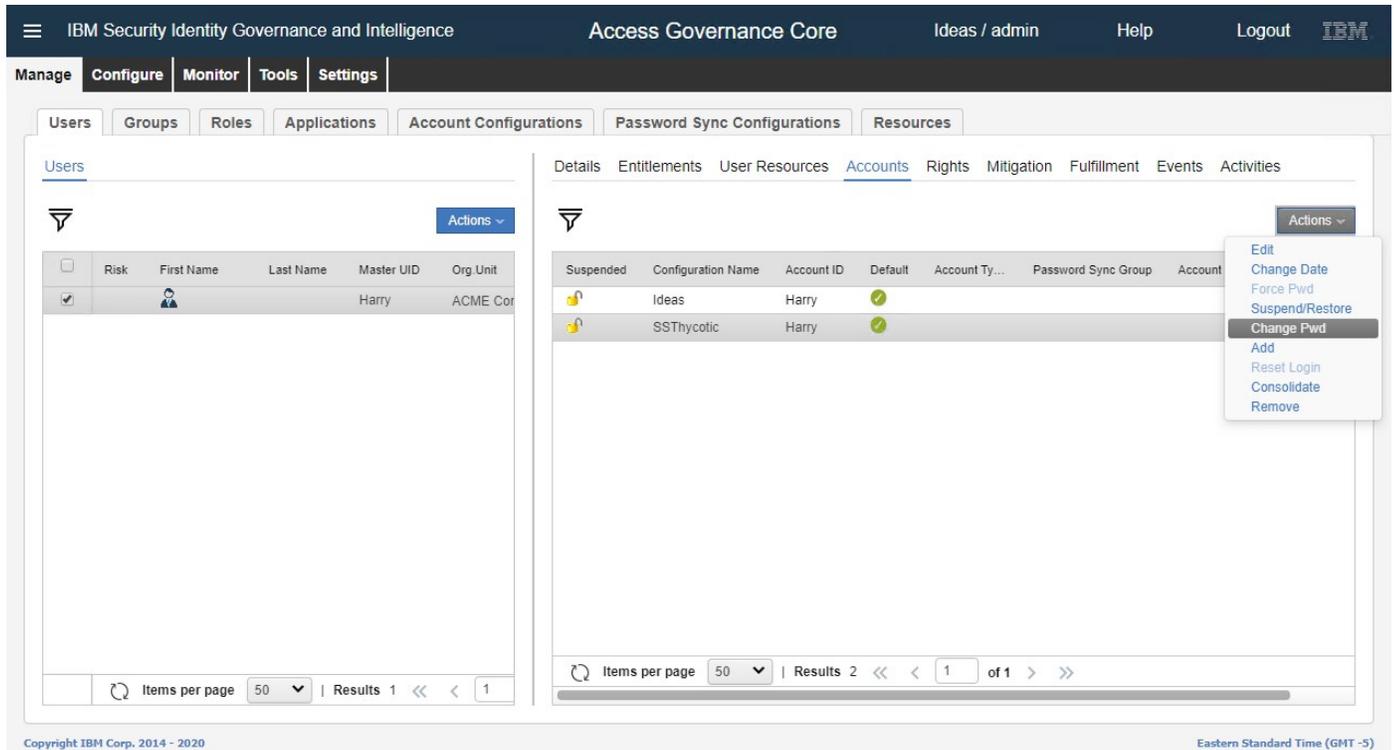
#### View User

User Name	Harry
Display Name	Harry2
Email Address	harry123@gmail.com
Domain	Local
Two Factor	< None >
Enabled	Yes
Locked Out	No
Application Account	No

#### IP Address Restrictions

None

3. Go to **IBM IGI Administrator Console**.
4. In the menu, click **Access Governance Core**.
5. Click **Manage** tab | **Users | Accounts** tab.
6. Select the account.
7. In the Actions list, click **Change Pwd**.



8. The **Change Password** dialog box appears.



9. Fill in the required information, such as new password and confirm password.

10. Click **OK**.

11. A message, '**Operation successfully completed.**' appears.

12. Click **Ok**.



13. Click the **Events** tab.

14. At the bottom of the **Events** tab, click on **OUT Event**. The event is listed. Wait till the Status and the **ERC Status** is displayed as

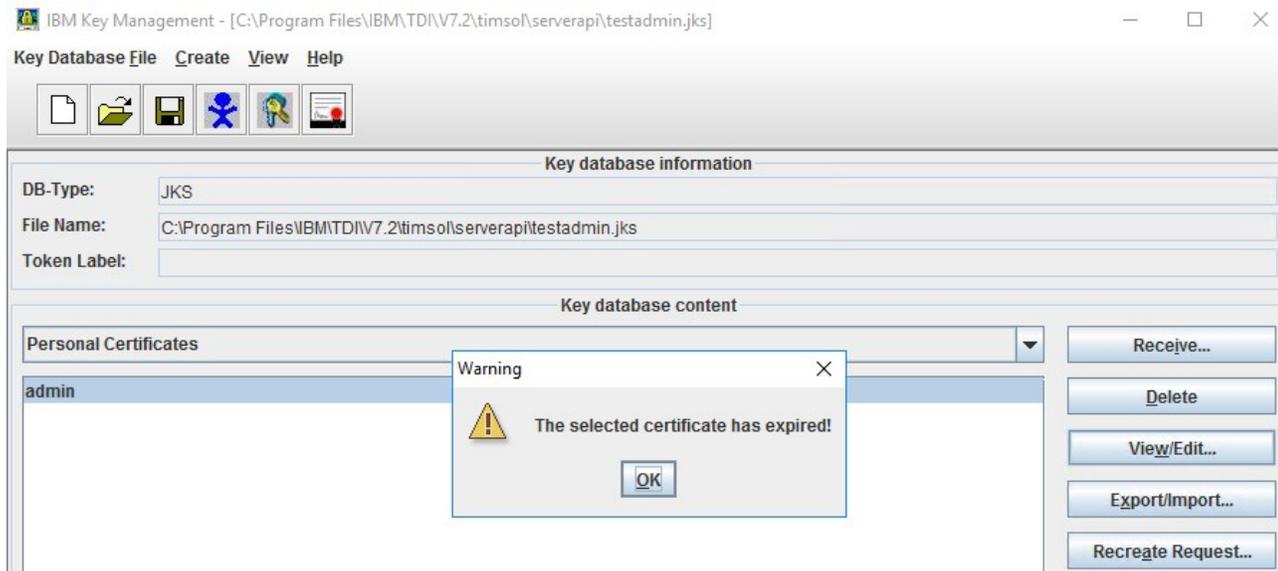
**Success.**

Secret Server is successfully integrated with IBM IGI Admin Console.

## Troubleshooting

### How to extend the validity of the Tivoli Directory Integrator certificate

If you received a Warning **'The selected certificate has expired!'** from the [Check the validity of the Tivoli Directory Integrator certificate](#) section, you will need to extend the certificate. Please see the steps below.



1. Click **OK**.
2. In **Windows Search**, type `cmd` and press **Enter**. The results are auto-populated.
3. Right-click Command Prompt and click **Run as Administrator**.
4. In the **User Account Control** dialog box, click **Yes**. The **Administrator: Command Prompt** appears.
5. To move to the `timsol` folder, type `C:\Program Files\IBM\TDI\V7.2\timsol` and press Enter.
6. Run the following eight commands:

- a. `"c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -selfcert -v -alias server -validity 730 -keystore testserver.jks -storepass server`

```
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd C:\Program Files\IBM\TDI\V7.2\timsol

C:\Program Files\IBM\TDI\V7.2\timsol>"c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -selfcert -v -alias server -validity 730 -keystore testserver.jks -storepass server_
```

- b. `"c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -selfcert -v -alias admin -validity 730 -keystore serverapi\testadmin.jks -storepass administrator`

```
C:\Program Files\IBM\TDI\V7.2\timsol>"c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -selfcert -v -alias admin -validity 730 -keystore serverapi\testadmin.jks -storepass administrator_
```

- c. `"c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -export -alias server -keystore testserver.jks -storepass server -file myserver.crt`

```
C:\Program Files\IBM\TDI\V7.2\timsol>"c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -export -alias server -keystore testserver.jks -storepass server -file myserver.crt_
```

- d. `"c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -export -alias admin -keystore serverapi\testadmin.jks -storepass administrator -file myadmin.crt`

```
C:\Program Files\IBM\TDI\V7.2\timsol>"c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -export -alias admin -keystore serverapi\testadmin.jks -storepass administrator -file myadmin.crt
```

e. "c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -delete -alias admin -keystore testserver.jks -storepass server

```
C:\Program Files\IBM\TDI\V7.2\timsol>"c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -delete -alias admin -keystore testserver.jks -storepass server
```

f. "c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -import -alias admin -keystore testserver.jks -storepass server -file myadmin.crt

```
C:\Program Files\IBM\TDI\V7.2\timsol>"c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -import -alias admin -keystore testserver.jks -storepass server -file myadmin.crt
```

**Note:** To trust this certificate, type yes.

```
Trust this certificate? [no]: yes
Certificate was added to keystore
```

g. "c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -delete -alias server -keystore serverapi\testadmin.jks -storepass administrator

```
C:\Program Files\IBM\TDI\V7.2\timsol>"c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -delete -alias server -keystore serverapi\testadmin.jks -storepass administrator
```

h. "c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -import -alias server -keystore serverapi\testadmin.jks -storepass administrator -file myserver.crt

```
C:\Program Files\IBM\TDI\V7.2\timsol>"c:\Program Files\IBM\TDI\V7.2\jvm\jre\bin\keytool" -import -alias server -keystore serverapi\testadmin.jks -storepass administrator -file myserver.crt
```

**Note\_\_:** To trust this certificate, type yes.

```
Trust this certificate? [no]: yes
Certificate was added to keystore
```

**Note:** Go to C:\Program Files\IBM\TDI\V7.2\timsol and verify that certificates myadmin and myserver are added to the timsol folder.

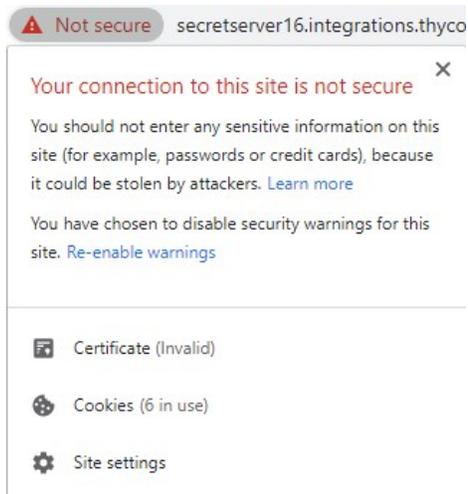
7. Go to C:\Program Files\IBM\TDI\V7.2\timsol and copy the testserver.jks file.
8. Go to C:\Program Files\IBM\TDI\V7.2 and paste the testserver.jks file.
9. Go to C:\Program Files\IBM\TDI\V7.2\timsol\serverapi and copy testadmin.jks file.
10. Go to C:\Program Files\IBM\TDI\V7.2\serverapi and paste testadmin.jks file.

#### How to Import the Thycotic Certificate

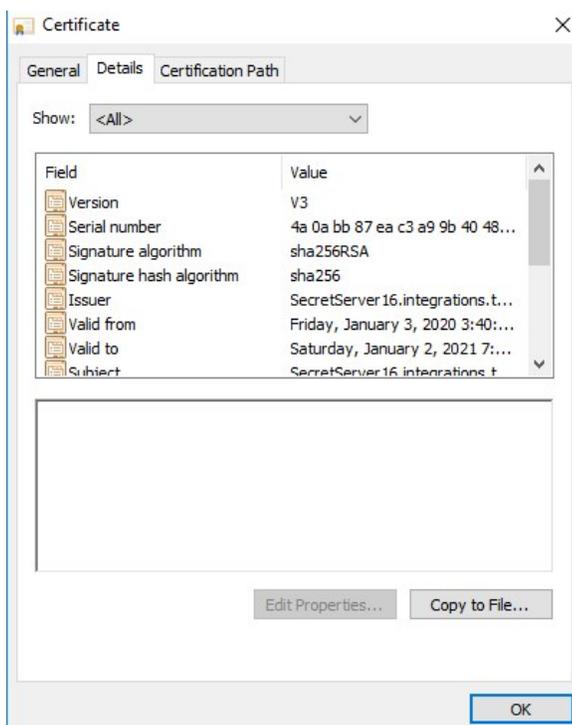
For secure connection between Thycotic Secret Server and IBM IGI, you will need to import Thycotic certificate.

#### To Import Thycotic certificate:

1. Click **Not secure** part of the Thycotic Server URL . **Your connection to this site is not secure** dialog box appears.



2. Click **Certificate (Invalid)**. The **Certificate** dialog box appears.



3. Click **Details | Copy to File**. The **Welcome to the Certificate Export Wizard** appears.

← Certificate Export Wizard



## Welcome to the Certificate Export Wizard

This wizard helps you copy certificates, certificate trust lists and certificate revocation lists from a certificate store to your disk.

A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.

To continue, click Next.

Next

Cancel

4. Click **Next**. The **Export File Format** panel appears.

← Certificate Export Wizard



### Export File Format

Certificates can be exported in a variety of file formats.

Select the format you want to use:

- DER encoded binary X.509 (.CER)
- Base-64 encoded X.509 (.CER)
- Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)
  - Include all certificates in the certification path if possible
- Personal Information Exchange - PKCS #12 (.PFX)
  - Include all certificates in the certification path if possible
  - Delete the private key if the export is successful
  - Export all extended properties
  - Enable certificate privacy
- Microsoft Serialized Certificate Store (.SST)

Next

Cancel

5. Click **Next**. The **File to Export** panel appears.



**File to Export**  
Specify the name of the file you want to export

File name:

6. In the **File name** text box, type the name for the certificate to be exported.
7. Click **Browse** and select the location where you want to export the certificate.
8. Click **Next**. The **Completing the Certificate Export Wizard** appears.



### Completing the Certificate Export Wizard

You have successfully completed the Certificate Export wizard.

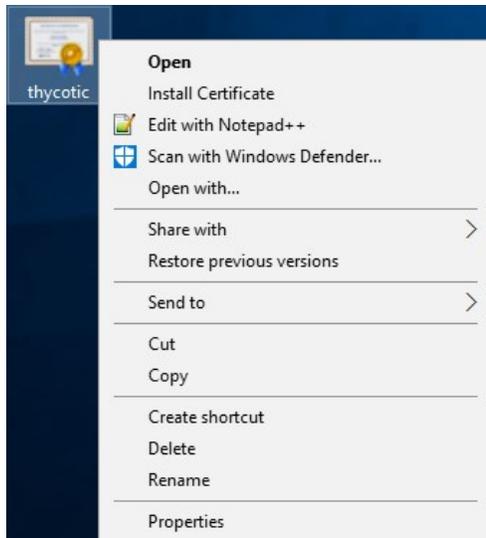
You have specified the following settings:

File Name	C:\Users\shahidkhan\Desktop\thycotic
Export Keys	No
Include all certificates in the certification path	No
File Format	DER Encoded Binary X.509 (*.cer)

9. Click **Finish**. The message, **'The export was successful.'** appears. The certificate is exported to the location selected.



10. Right-click the certificate where you have exported and click **Install Certificate**.



11. The **Welcome to the Certificate Import Wizard** appears.



### Welcome to the Certificate Import Wizard

This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.

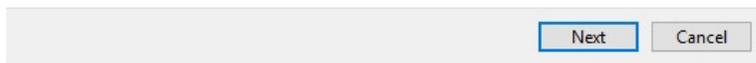
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.

Store Location

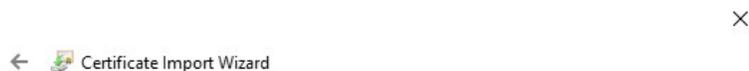
Current User

Local Machine

To continue, click Next.



- In the **Store Location** area, select **Current User** and then click **Next**. The **Certificate Store** panel appears.



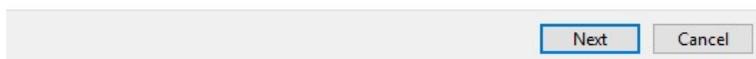
### Certificate Store

Certificate stores are system areas where certificates are kept.

Windows can automatically select a certificate store, or you can specify a location for the certificate.

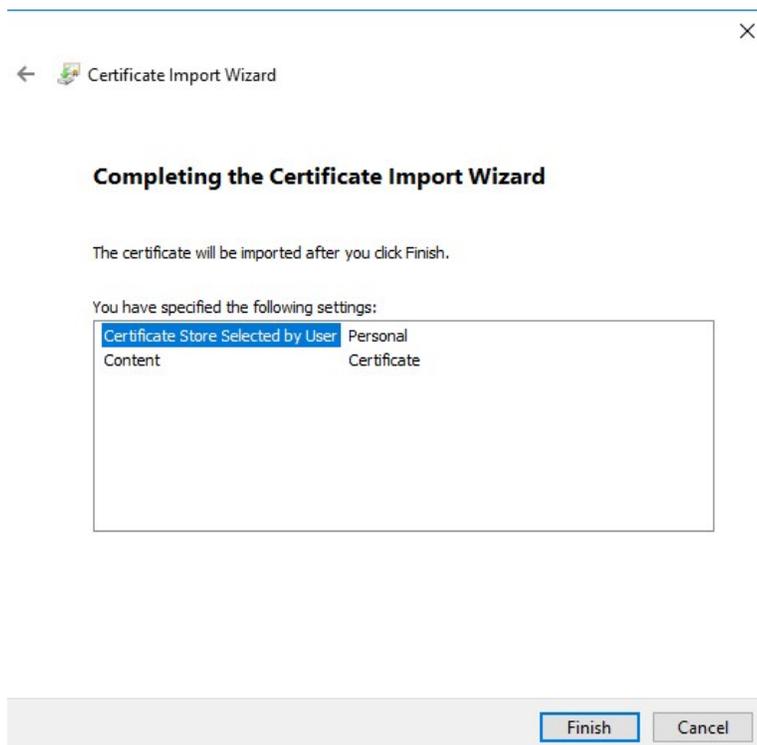
- Automatically select the certificate store based on the type of certificate
- Place all certificates in the following store

Certificate store:



- Select **Place all certificates in the following store** and then click **Browse**.

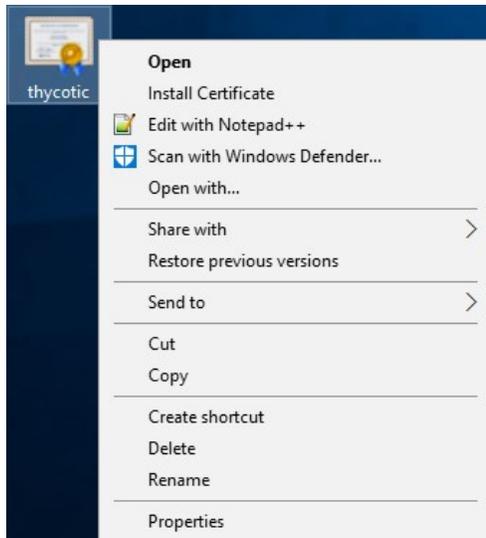
14. Select **Personal** folder and then click **Next**. The **Completing the Certificate Import Wizard** panel appears.



15. Click **Finish**. The message **'The import was successful.'** appears.



16. Right-click the certificate where you have exported and click **Install Certificate**.



17. The **Welcome to the Certificate Import Wizard** appears.



### Welcome to the Certificate Import Wizard

This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.

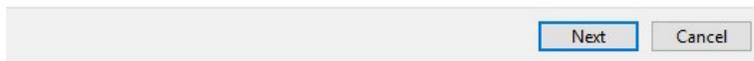
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.

Store Location

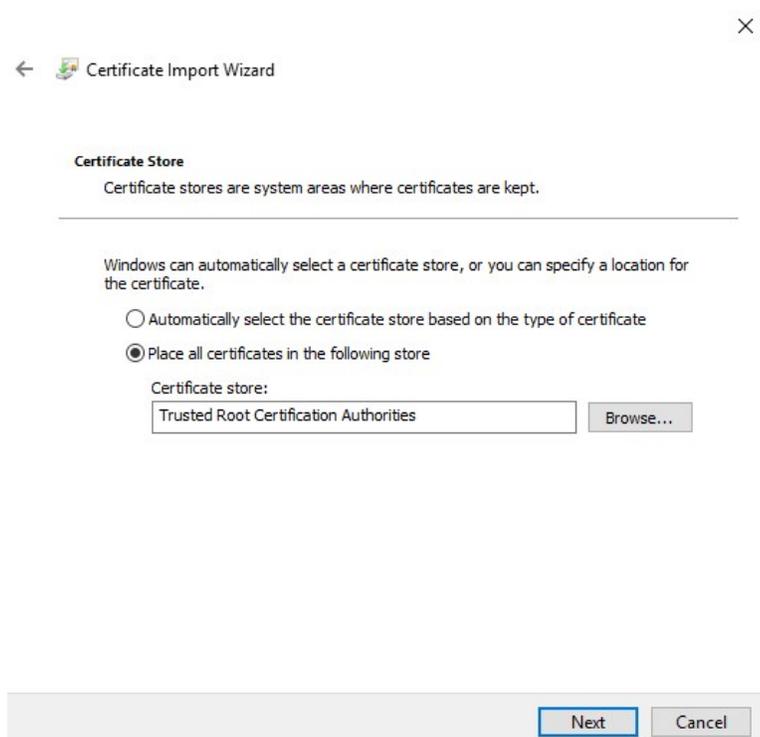
Current User

Local Machine

To continue, click Next.

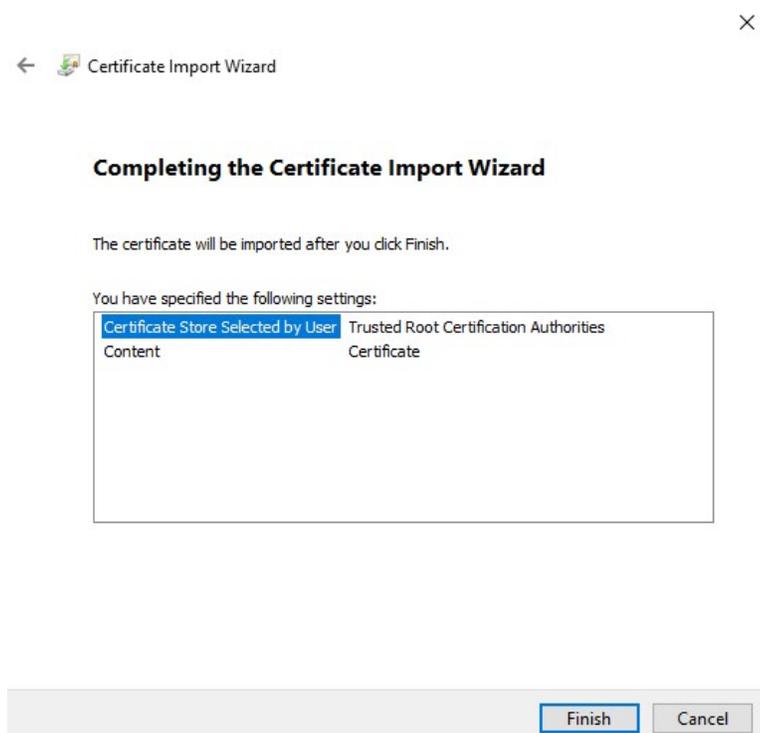


18. In the **Store Location** area, select **Current User** and then click **Next**. The **Certificate Store** panel appears.



19. Select **Place all certificates in the following store** and then click **Browse**.

20. Select **Trusted Root Certification Authorities** folder and then click **Next**. The **Completing the Certificate Import Wizard** panel appears.

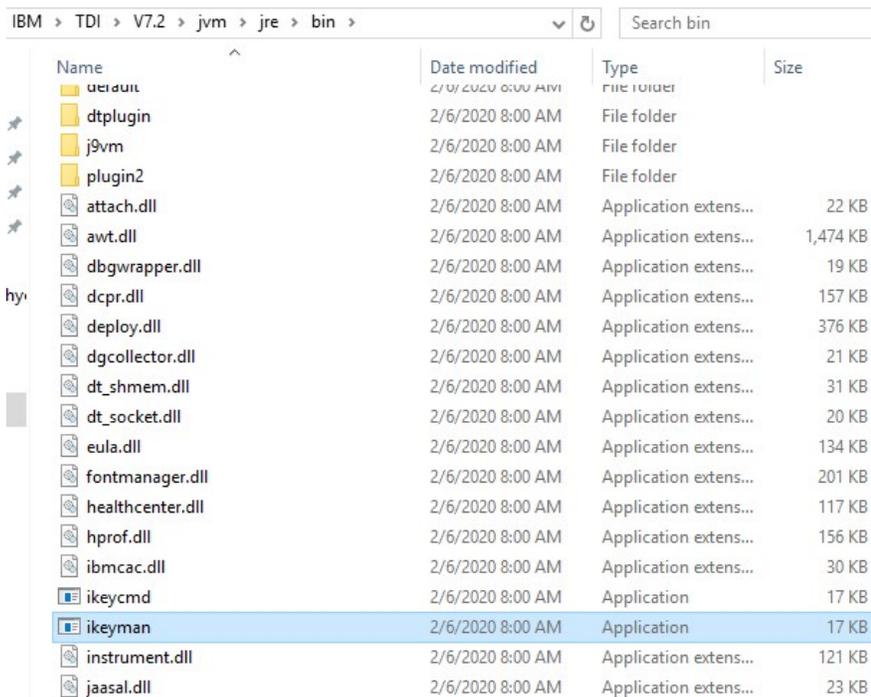


- Click **Finish**. The message **'The import was successful.'** appears.



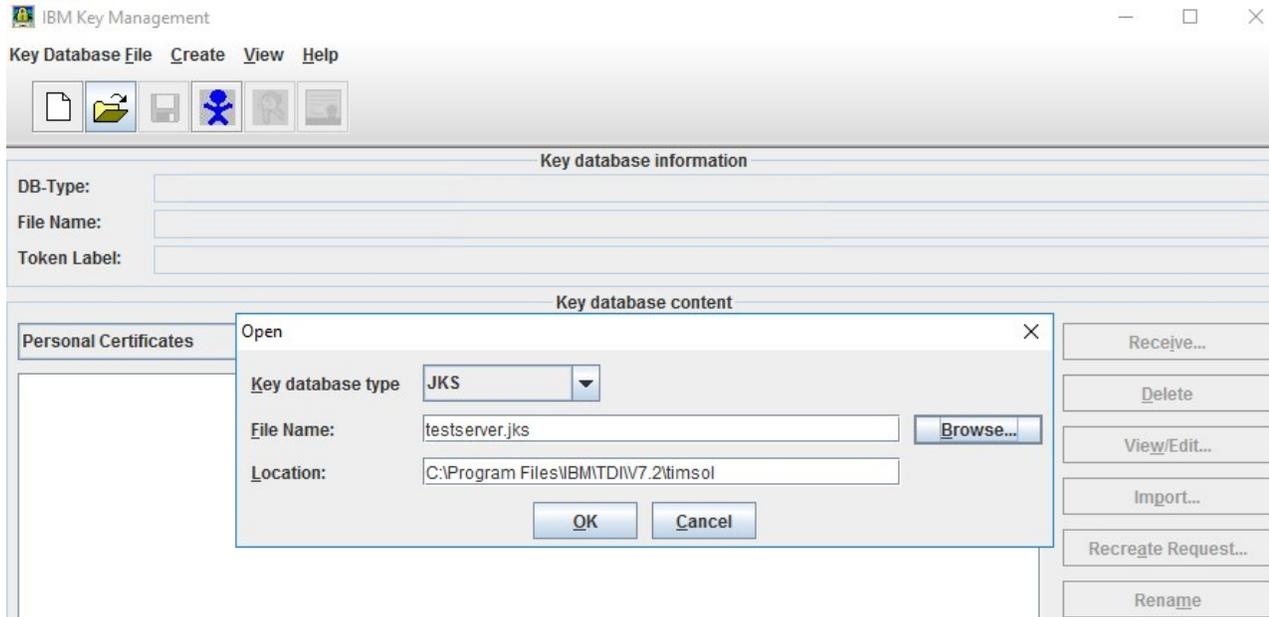
### How to Add the Thycotic certificate

- Go to C:\Program Files\IBM\TDIV7.2\jvm\jre\bin.

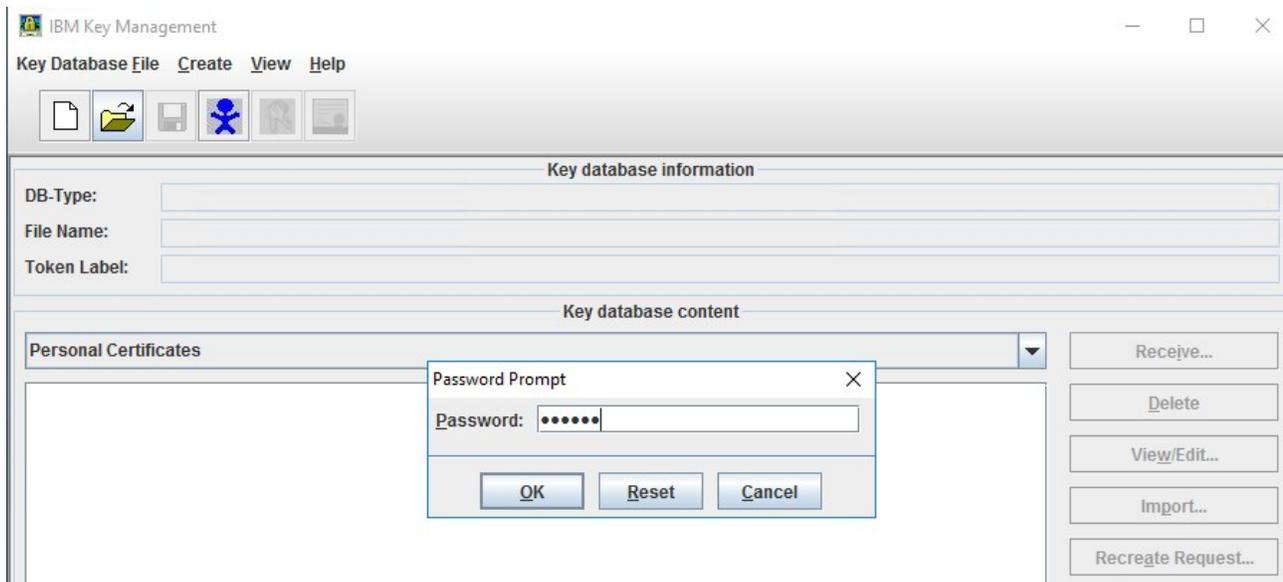


Name	Date modified	Type	Size
useraut	2/6/2020 8:00 AM	File folder	
dtplugin	2/6/2020 8:00 AM	File folder	
j9vm	2/6/2020 8:00 AM	File folder	
plugin2	2/6/2020 8:00 AM	File folder	
attach.dll	2/6/2020 8:00 AM	Application extens...	22 KB
awt.dll	2/6/2020 8:00 AM	Application extens...	1,474 KB
dbgwrapper.dll	2/6/2020 8:00 AM	Application extens...	19 KB
dcpr.dll	2/6/2020 8:00 AM	Application extens...	157 KB
deploy.dll	2/6/2020 8:00 AM	Application extens...	376 KB
dgcollector.dll	2/6/2020 8:00 AM	Application extens...	21 KB
dt_shmem.dll	2/6/2020 8:00 AM	Application extens...	31 KB
dt_socket.dll	2/6/2020 8:00 AM	Application extens...	20 KB
eula.dll	2/6/2020 8:00 AM	Application extens...	134 KB
fontmanager.dll	2/6/2020 8:00 AM	Application extens...	201 KB
healthcenter.dll	2/6/2020 8:00 AM	Application extens...	117 KB
hprof.dll	2/6/2020 8:00 AM	Application extens...	156 KB
ibmcac.dll	2/6/2020 8:00 AM	Application extens...	30 KB
ikeycmd	2/6/2020 8:00 AM	Application	17 KB
<b>ikeyman</b>	2/6/2020 8:00 AM	Application	17 KB
instrument.dll	2/6/2020 8:00 AM	Application extens...	121 KB
jaasal.dll	2/6/2020 8:00 AM	Application extens...	23 KB

- Right-click ikeyman file and select **Run as administrator**.
- In the **User Account Control** dialog box, click **Yes**. The **IBM Key Management** dialog box appears.

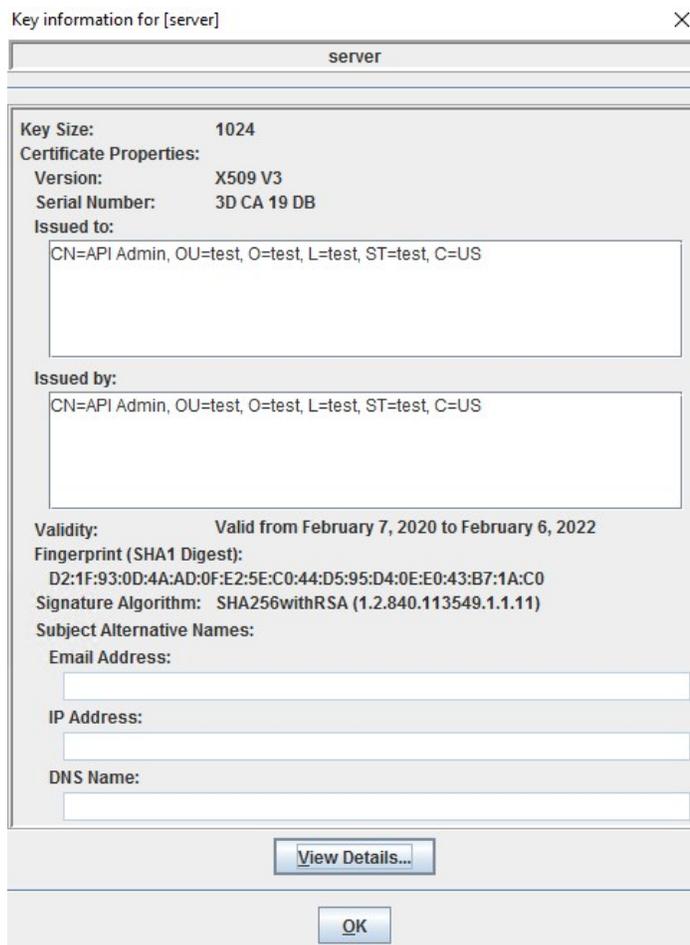


4. Click open  icon. The **Open** dialog box appears.
5. Click **Browse** and navigate to C:\Program Files\IBM\TDIV7.2\timsol and double-click the timsol folder.
6. Select testserver.jks and click **Open**. The **Open** dialog box appears.
7. Click **OK**. The **Password Prompt** dialog box appears.

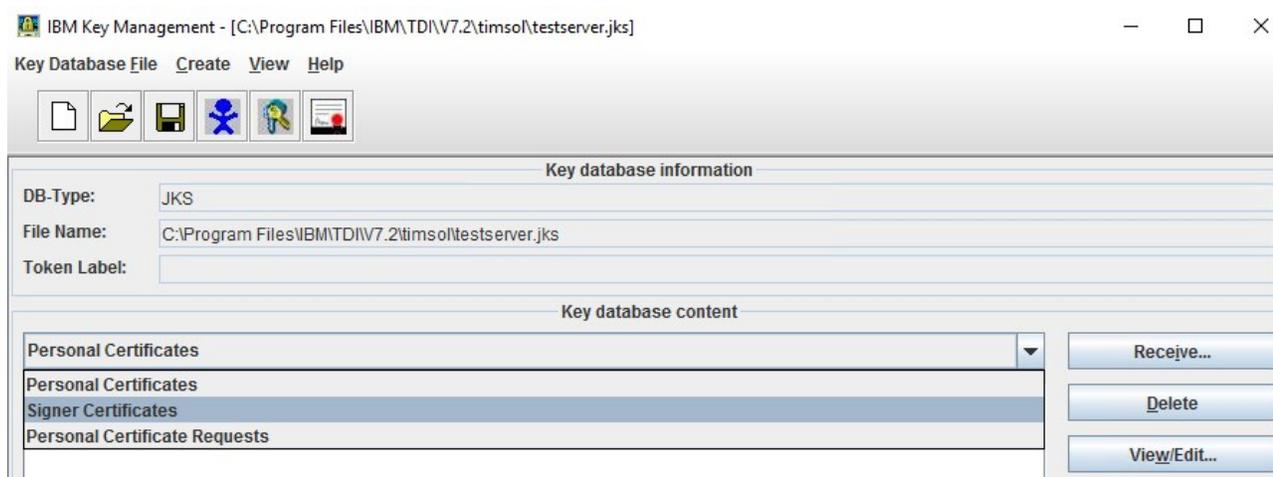


8. In the **Password** text box, type the password and click **OK**.
 

**Note:** The default password for testserver.jks is server.
9. In the **IBM Key Management** dialog box, click **View/Edit**. The certificate details appear.



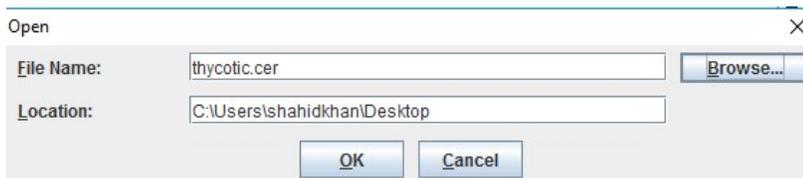
10. Verify the validity of the certificate and close the dialog box.
11. From the type of certificate list, select **Signer Certificates**.



12. The type of **Signer Certificate** as **admin** is listed. Click **Add**. The **Open** dialog box appears.



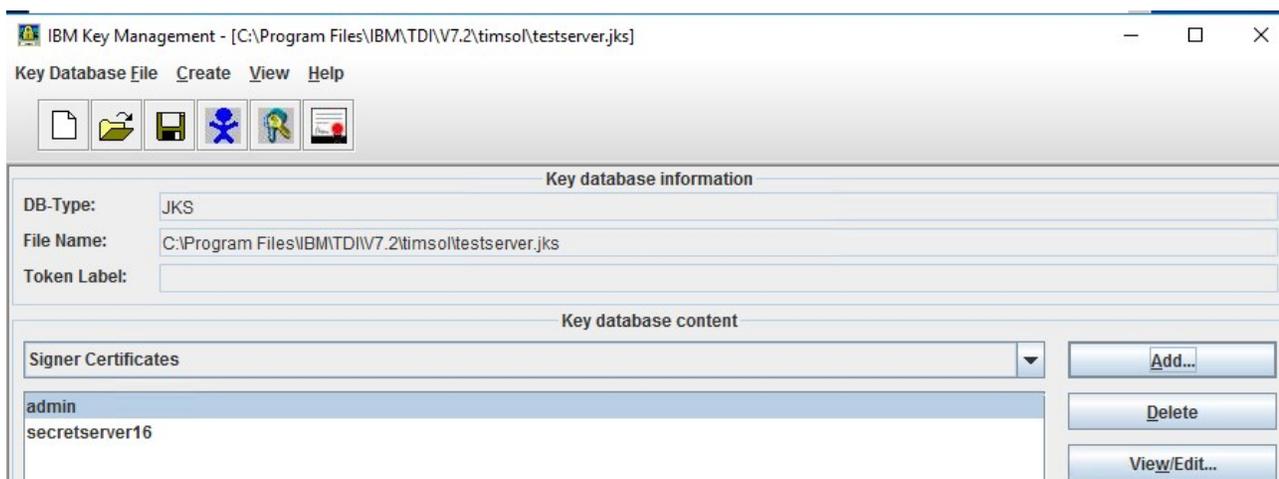
13. Click **Browse** and navigate to the location of thycotic.cer.
14. Select thycotic.cer and click **Open**. The **Open** dialog box appears.



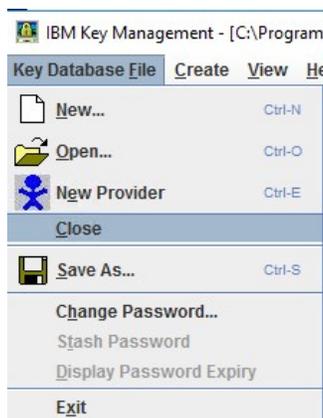
15. Click **OK**. The **Enter a Label** dialog box appears.



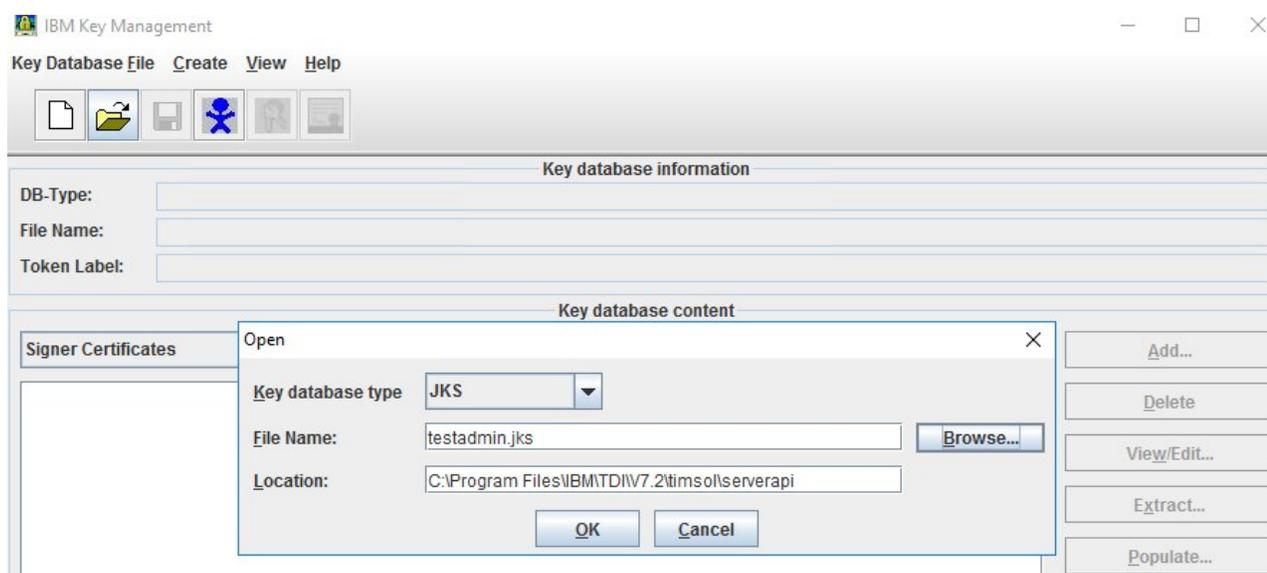
16. In the **Enter a Label for the certificate** text box, type the label and then click **OK**. The certificate is listed in the **Key database content** section.



17. Click Key **Database File** tab | **Close**. The certificate is saved.



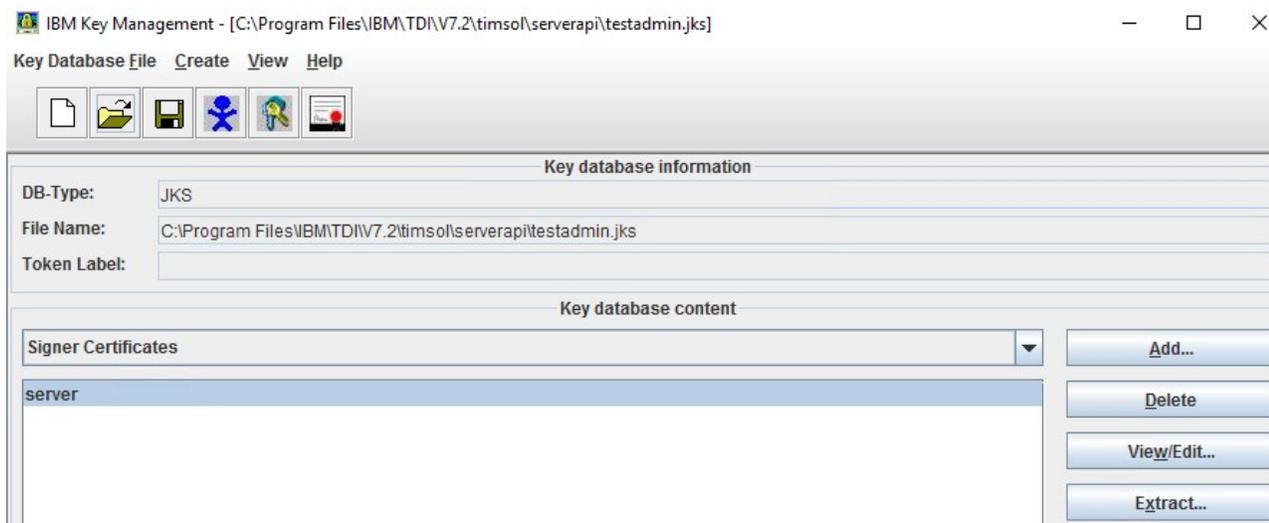
18. Click open  icon. The **Open** dialog box appears.



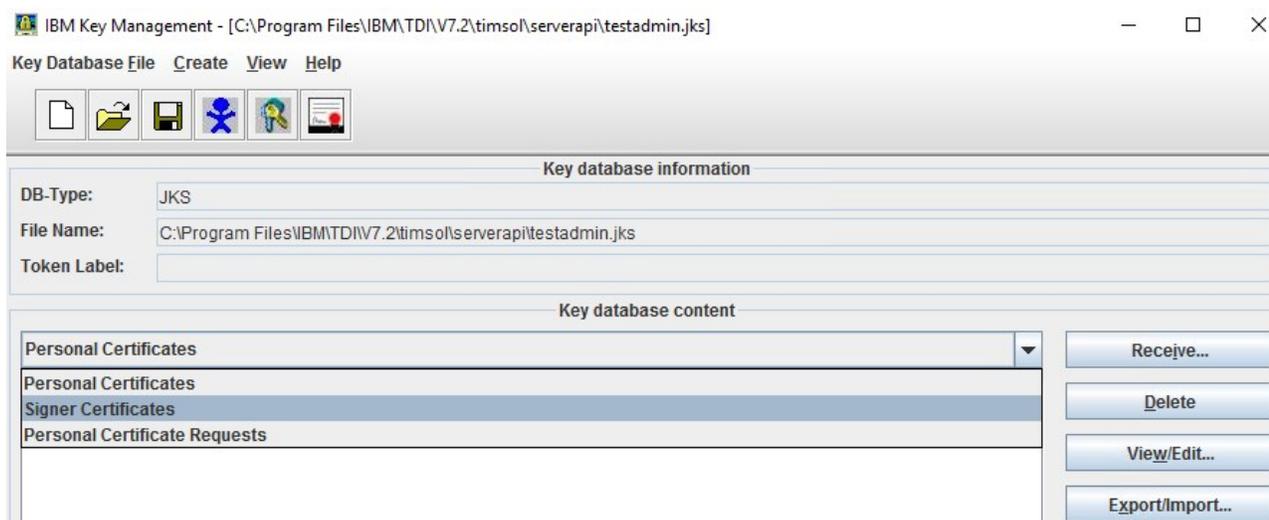
19. Click **Browse** and navigate to C:\Program Files\IBM\TDIV7.2\timsol.  
 20. Double-click timsol folder and then double-click serverapi folder.  
 21. Click testadmin.jks and click **Open**.  
 22. Click **OK**. The **Password Prompt** dialog box appears.



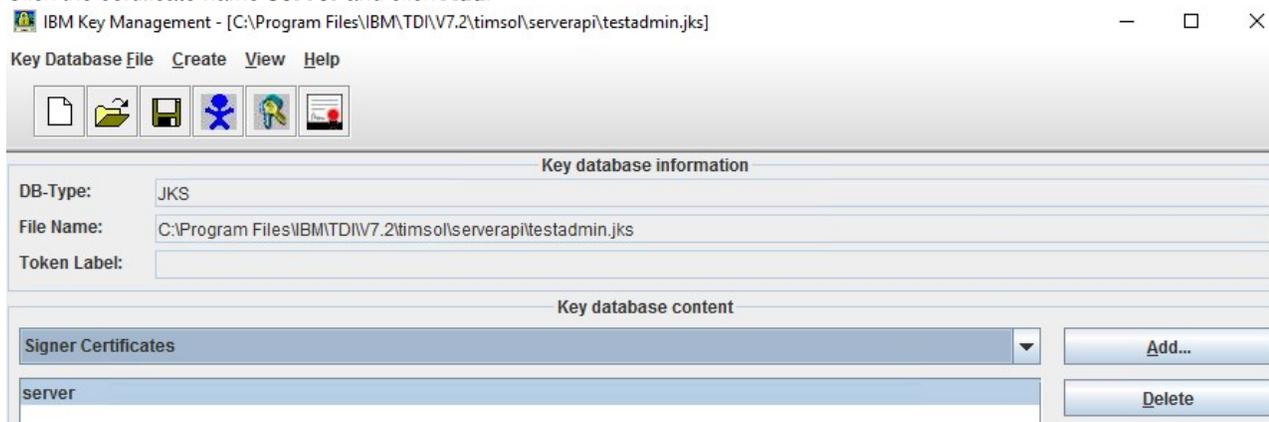
23. In the **Password** text box, type the password and click **OK**.  
**Note:** The default password for testadmin.jk is administrator.  
 24. Click **OK**. The certificate is listed in the **Key database content** section.



25. From the type of certificate list, select **Signer Certificates**.



26. Click the certificate name **server** and click **Add**.



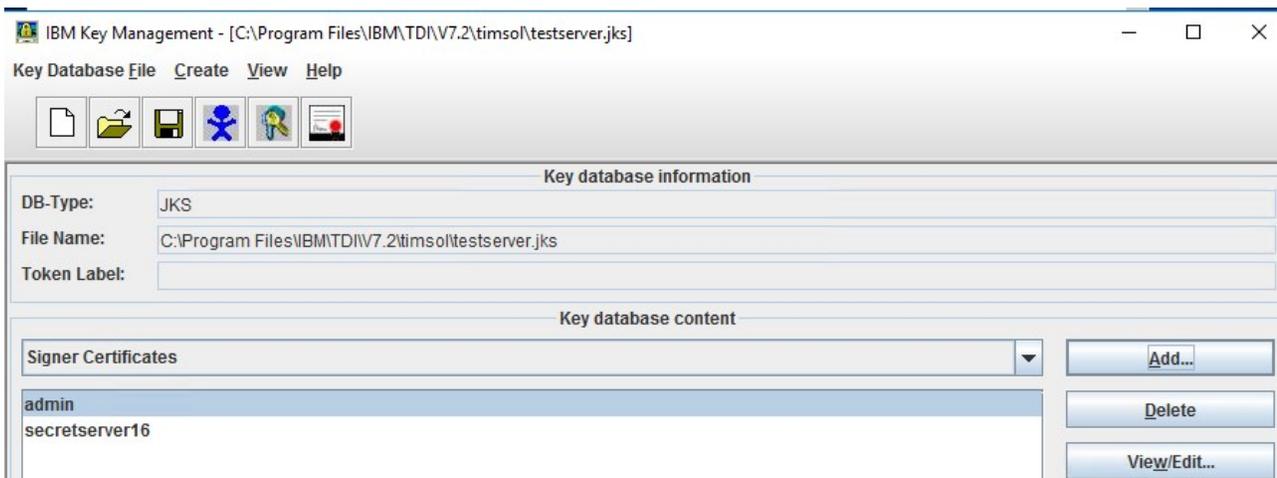
27. The **Open** dialog box appears.



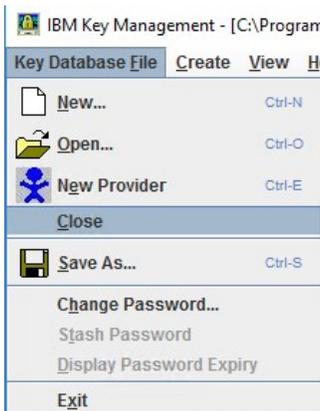
28. Click **Browse** and navigate to the location of thycotic.cer.
29. Click **Open** and then in the **Open** dialog box click **OK**. The **Enter a label** dialog box appears.



30. In the **Enter a label for the certificate** text box, type the label and then click **OK**. The certificate is listed in the **Key database content** area.



31. Click **Key Database File** tab | **Close**. The certificate is saved.



## QRadar

Below are the following integrations that are available with IBM:

- [Secret Server Dashboard Extension](#)
- [QRadar DSM](#)

## Introduction

### Meeting Information Security Compliance Mandates: Secret Server and QRadar Security Intelligence Platform Integration and Configuration

Leveraging Secret Server event data with IBM's QRadar Security Intelligence Platform can give organizations deep insight into the use of privileged accounts (such as Windows local administrator, service or application accounts, UNIX root accounts, Cisco enable passwords and more). Used together, these tools provide secure access to privileged accounts and provide greater visibility to meet compliance mandates and detect internal network threats.

### THE SECRET SERVER APPROACH TO PRIVILEGED ACCOUNT MANAGEMENT

Many environments that have strict Information Security policies also require methods to control and monitor access to privileged accounts. Enterprises often apply security policies such as physical access restrictions to hardware, network firewalls, appropriate-use guidelines, and user account restrictions. In the case of privileged accounts, access is more difficult to track and verify. Implementing privileged account management software such as Secret Server enables organizations to strictly control and track access.

Enterprises that implement Secret Server gain the ability to grant or deny granular access to critical systems. When access is granted, use of that access is tracked based on a wide range of events. While alerting is core functionality within Secret Server, managing real-time events on the aggregate can be cumbersome. Leveraging QRadar to manage these real-time events allows users to build customized risk analysis into their privileged account management policies. Mitigating internal privilege account threats helps organizations meet compliance requirements like Sarbanes-Oxley Act (SOX), Payment Card Industry Data Security Standard (PCI DSS), the Health Insurance Portability and Accountability Act (HIPAA), and the Federal Information Security Management Act (FISMA).

### RISKS AND BENEFITS

Unmanaged privileged accounts often enjoy unchecked access across a wide array of systems, networks, and databases. Unmitigated top-level access, in the wrong hands, can be devastating to an organization. The potential for liability is not limited to internal data and productivity loss, but can include criminal and civil penalties for unauthorized disclosure of private or regulated information. Implementing an enterprise-level privileged account management system (Secret Server) with a realtime event managementsystem (QRadar Security Intelligence Platform) allows organizations to mitigate risk. Critical systems can only be accessed by pre-defined users. IT Security Auditors are able to track access based on the needs of the enterprise.

### Getting Started with QRadar

Before configuring QRadar to integrate with Secret Server you will need to make sure you have met all of the [system requirements](#).

**Prerequisites**

**System Requirements**

Product		Details
QRadar		
	Version	v7.3.0 or later
	Hardware	For further information about system requirements for QRadar please visit: <a href="https://www.ibm.com/support/knowledgecenter/SS42VS_7.3.0/com.ibm.qradar.doc/c_siem_deploy_ov.html">https://www.ibm.com/support/knowledgecenter/SS42VS_7.3.0/com.ibm.qradar.doc/c_siem_deploy_ov.html</a>
Secret Server		
	Version	Thycotic Secret Server version 8.9 or later.
	Hardware	For further information about system requirements for Secret Server please visit: <a href="https://docs.thycotic.com/ss/10.8.0/secret-server-setup/system-requirements/index.md">https://docs.thycotic.com/ss/10.8.0/secret-server-setup/system-requirements/index.md</a>

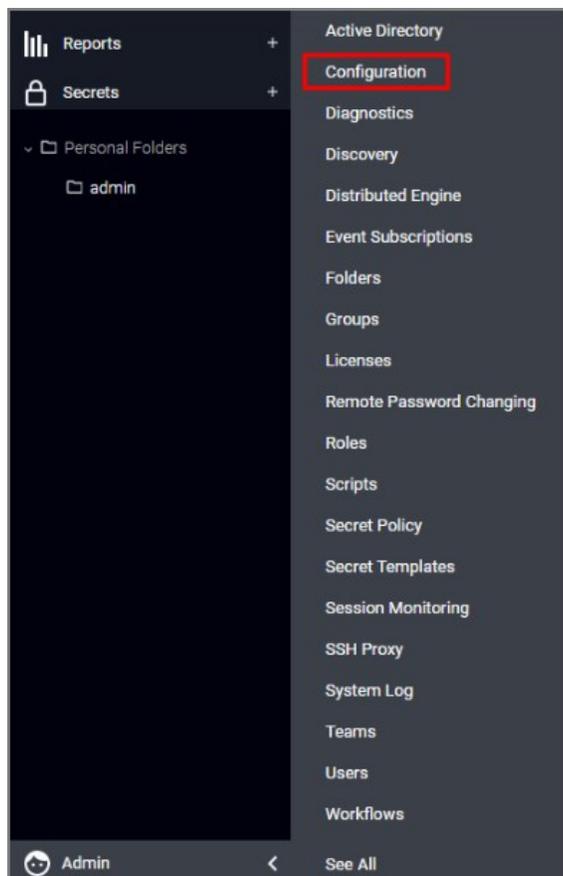
## Configuration

- [Exporting Logs from Secret Server](#)
- [Upload a Custom Parser](#)
- [QID Mappings](#)
- [How to export the event mappings along with the Custom DSM](#)

## Exporting Logs from Secret Server

To export event logs from Secret Server to QRadar, begin by logging in to Secret Server as an Administrator.

1. From the **ADMIN** menu, select **Configuration**.



2. Scroll to the bottom of the page and click **Edit**.
3. Select the **Enable Syslog/CEF Logging** check box and fill in the QRadar Server IP, Port, Protocol ("TCP" for this example) before clicking Save.
4. Data will immediately begin flowing to your QRadar instance. See the figure below from the Secret Server **Configuration** menu:

- 🕒 Recent
- 🔄 Shared With Me
- ☆ Favorites
- 📧 Inbox
- 📊 Reports +
- 🔒 Secrets +
- 👤 Admin <

### Configuration

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[Security](#)
[Ticket System](#)

**APPLICATION SETTINGS**

<b>Allow Automatic Checks for Software Updates</b>	Yes
<a href="#">Anonymized System Metrics Information</a>	
<b>Send Anonymized System Metrics to Thycotic</b>	Yes <a href="#">View Metric Data</a>
<a href="#">View Webservices</a>	
<b>Enable Webservices</b>	Yes
<b>Maximum Time for Offline Access on Mobile Devices</b>	30 days
<b>Session Timeout for Webservices</b>	Unlimited
<b>Enable Refresh Tokens for Web Services</b>	Yes
<b>Maximum Token Refreshes Allowed</b>	3
<b>Prevent Application from Sleeping When Idle</b>	Yes
<a href="#">Syslog/CEF Logging Advanced Settings Information</a>	
<b>Enable Syslog/CEF Logging</b>	Yes
<b>Syslog/CEF Server</b>	10.60.25.26
<b>Syslog/CEF Port</b>	514

## Upload a Custom Parser

1. Save the following as an xml file. This is an example of a Custom Parser that you will need to upload in step 8.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:device-extension xmlns:ns2="event_parsing/device_extension">

  <pattern id="EventCategory-Pattern-1" type="JavaPattern" use-default-pattern="false">\\d+\\(\\.*)\\d\\msg</pattern>

  <pattern id="EventName-Pattern-1" type="CefKey">$id$</pattern>

  <pattern id="SourceIp-Pattern-1" type="CefKey">src</pattern>

  <pattern id="UserName-Pattern-1" type="CefKey">user</pattern>

  <pattern id="AllEvents" type="JavaPattern">(.*?)</pattern>
  <match-group order="1" device-type-id-override="4001">

    <matcher order="1" field="EventCategory" pattern-id="EventCategory-Pattern-1" capture-group="1" enable-substitutions="true"/>

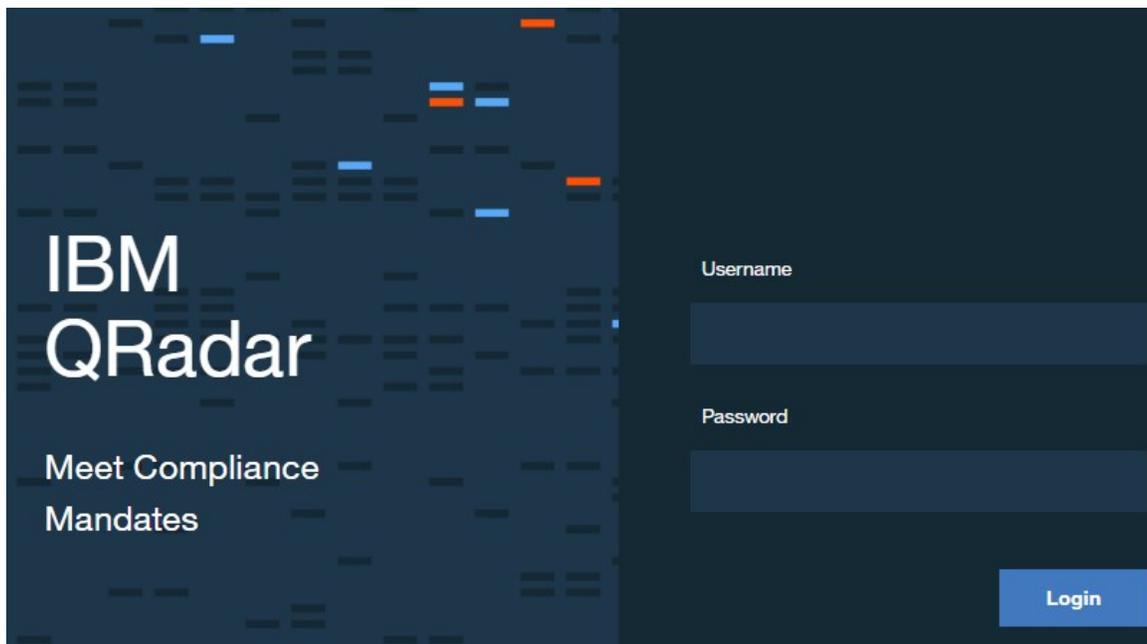
    <cef-matcher order="1" field="EventName" pattern-id="EventName-Pattern-1" enable-substitutions="true"/>

    <cef-matcher order="1" field="SourceIp" pattern-id="SourceIp-Pattern-1" enable-substitutions="true"/>

    <cef-matcher order="1" field="UserName" pattern-id="UserName-Pattern-1" enable-substitutions="true"/>

    <event-match-multiple pattern-id="AllEvents" send-identity="UseDSMResults" force-qidmap-lookup-on-fixup="true"/>
  </match-group>
</ns2:device-extension>
```

2. Log into **QRadar** on your web browser.



3. Click the **Admin** tab.