



Kony Fabric

Sync Services Console User

Guide

Release V8

Document Relevance and Accuracy

This document is considered relevant to the release stated on this title page and the document version stated on the Revision History page.
Remember to always view and download the latest document version relevant to the software release you are using.

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Revision History

Date	Document Version	Description of Modifications/Release
09/08/2017	1.0	Document updated for release V8. Worked on rebranding of MobileFabric to Kony Fabric.

1. Preface

Important: Legacy Sync has been [deprecated from Quantum Fabric V8 SP4](#) and support for the same is not available. From Quantum Visualizer V9 onwards, you cannot create a legacy sync based client application. However, the existing legacy sync based apps will continue to work. The new applications that need offline and sync capabilities must use the [Offline Objects](#) feature.

Kony Fabric Sync Console provides a single point of control for monitoring and configuring the Kony Fabric Sync console creation process. It includes data integration, storage, and analysis resulting in reduced training time, manual work, and upholding standard operating procedures.

1.1 Purpose

This document provides instructions for monitoring and configuring the Kony Fabric Sync Console.

1.2 Intended Audience

This document is intended for Kony Fabric Sync Administrators and Report Viewers who are responsible for monitoring and configuring the Kony Fabric Sync Console. We assume that the reader of this document is familiar with diagnosing issues at run time and also monitoring the system performance.

1.3 Formatting Conventions

The following typographical conventions are used throughout the document:

Click here

Conventions	Explanation
Monospace	<ul style="list-style-type: none">■ User input text, system prompts, and responses■ File path■ Commands■ Program code■ File Names.
<i>Italic</i>	<ul style="list-style-type: none">■ Emphasis■ Names of books, and documents■ New terminology.
Bold	<ul style="list-style-type: none">■ Windows■ Menus■ Buttons■ Icons■ Fields■ Tabs■ Folders.
<u>URL</u>	Active link to a URL.
<i>Note</i>	Provides helpful hints or additional information.
<i>Important</i>	Highlights actions or information that might cause problems to systems or data.

1.4 Contact us

We welcome your feedback on our documentation. Write to us at techpubs@kony.com. For technical questions, suggestions, comments or to report problems on Kony product line, contact support@kony.com.

2. Sync Console

The Sync Console provides the ability to monitor and configure Kony Fabric Sync Framework. It provides an easy-to-use web-based user interface for diagnosing issues at run-time and monitor the system performance.

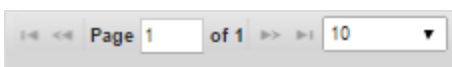
2.1 Modules

The following modules are available in the Sync Console.

- [Login](#)
- [Analytics Dashboard](#)
- [User Management](#)
- [Role based Access](#)
- [Application Management](#)
- [Device Management](#)
- [Configuration](#)
- [Monitoring](#)
- [Scheduled Jobs](#)

2.2 Pagination

If the number of applications is more than 10, you can use **Next** or **Previous** links to move to more applications. You may change the number of applications to view by selecting from the drop-down corresponding to **Page**.



2.3 Functional Flow

The following depicts the functional flow of Kony Fabric Sync Console:

1. Open Kony Fabric Sync Console.
2. [Login](#) as Kony Fabric Sync Administrator.
3. Go to [User Management](#) tab > [Users](#) > [Create a user](#).
4. Go to [User Management](#) tab > [Groups](#) > [Create a group](#).
5. Go back to [User Management](#) tab > [Users](#) > [Assign the created group to the user](#).
6. Go back to [User Management](#) tab > [Users](#) > [Assign the registered device to the user](#).
7. Go to [Configurations](#) > [Sync Configurations](#) tab > to upload `SyncConfig.xml` file for adding an application.
8. Go to [User Management](#) tab > [Groups](#) > [Assign the Application to the group](#).
9. Go to [User Management](#) tab > [Authentication](#) > [Add Authentication](#).
10. Go to [Configurations](#) > [Sync Configuration](#) tab > [Assign Authentication to the Application](#)
11. Go to [Monitoring](#) tab to view:
 - a. [Synchronization](#) tab: The time taken for each service like Upload, Download and Authenticate with respect to combination of User, Device and Application.
 - b. [Synchronization Performance](#) tab: The average time taken for each service like Upload, Download and Authenticate with respect to combination of User, Device and Application.
 - c. [Merge Service](#) tab: The status of the records that were merged into data source based on the conflict resolution policy (Server Wins / Client Wins) defined in `SyncConfig.xml`

file.

- d. [Replica Service](#) tab: The records downloaded while performing synchronization from the data source to client are stored in Replica database (Server side) when persistent sync is used as sync strategy. These records appear on this tab.
 - e. [Upload Queue](#) tab: The records uploaded while performing synchronization from the client to data source are stored in Upload Queue database (Server side) when persistent sync is used as sync strategy. These records appear on this tab.
 - f. [Conflicts](#) tab: The records uploaded from client may conflict with the server records, these conflicts appear on this tab. You can view Client Record, Server Record and Merged Record. The Merge is based on the conflict resolution policy (Server Wins / Client Wins) defined in `SyncConfig.xml` file.
 - g. [Security Audit](#) tab: The changes that the client makes are updated at Enterprise Data Source server.
 - h. [Change Replay](#) tab: The series of actions like insert, update that the client performs on a particular record are replayed at data source end. These series of actions per request appear on this tab.
12. Go to [Config](#) tab to view configuration details of the system where the application is deployed.
13. Go to [Schedule Jobs](#) tab >
- a. [Schedule Jobs](#) - To view all the default jobs mapped to your application.
 - b. [Jobs History](#) - To view Jobs history details
14. Go to [Logs](#) tab >
- a. [Trace Log](#) - To view Request and response data between the clients and Enterprise Data source Server for a particular Application, User, Device, and Time combination.

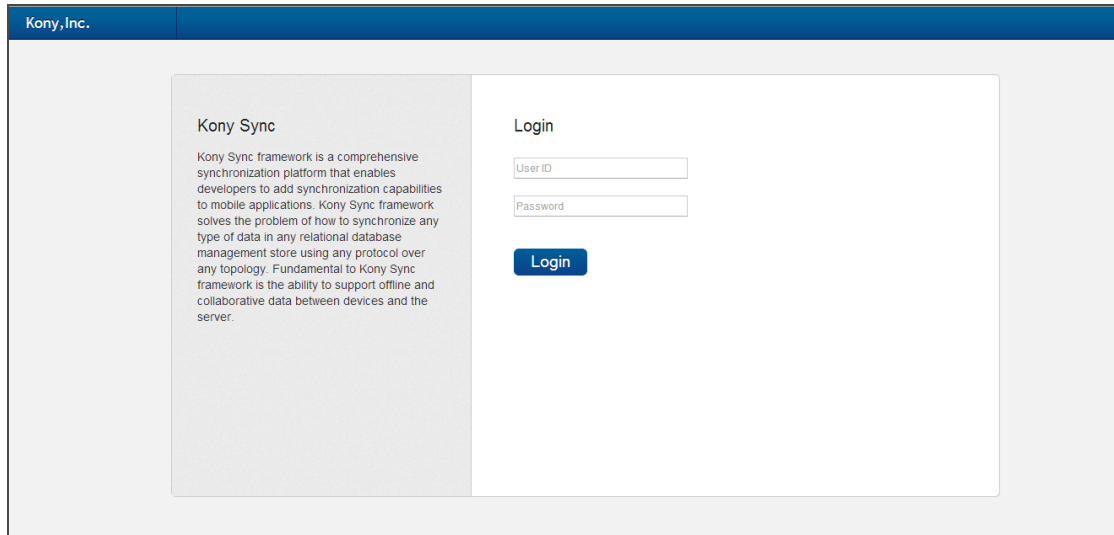
- b. [Sync Services Log](#) - To view the various levels of Kony Fabric Sync Server Services and Kony Fabric Sync Management Console log data like DEBUG, INFO, and ERROR on UI.
 - c. [Sync Console Log](#) - To view the various levels of sync Management Console log data like DEBUG, INFO, and ERROR on UI.
15. Go to [Analytics Dashboard](#) tab - To view the system performance based on various criteria for a selected duration of time interval. The Reports that you can view are:
- a. Upload versus Replica
 - b. Sync Errors versus Conflicts
 - c. Avg Download Response Time
 - d. Avg Upload Response Time

3. Login

Kony Fabric Sync Console provides ability to login to the application using the credentials provided. Various users can login to the Management Console as Kony Fabric Sync Admin, User, and Report Viewer.

To login to the Kony Fabric Sync Console, follow these steps:

1. Navigate to <http://<IP address of the machine on which console is installed>/synconsole>. The Kony Fabric Sync Console login window appears.
2. Enter the **User ID** and **Password**. These details are delivered along with the product Kony provided.
3. Click **Login**.



Kony, Inc.

Kony Sync

Kony Sync framework is a comprehensive synchronization platform that enables developers to add synchronization capabilities to mobile applications. Kony Sync framework solves the problem of how to synchronize any type of data in any relational database management store using any protocol over any topology. Fundamental to Kony Sync framework is the ability to support offline and collaborative data between devices and the server.

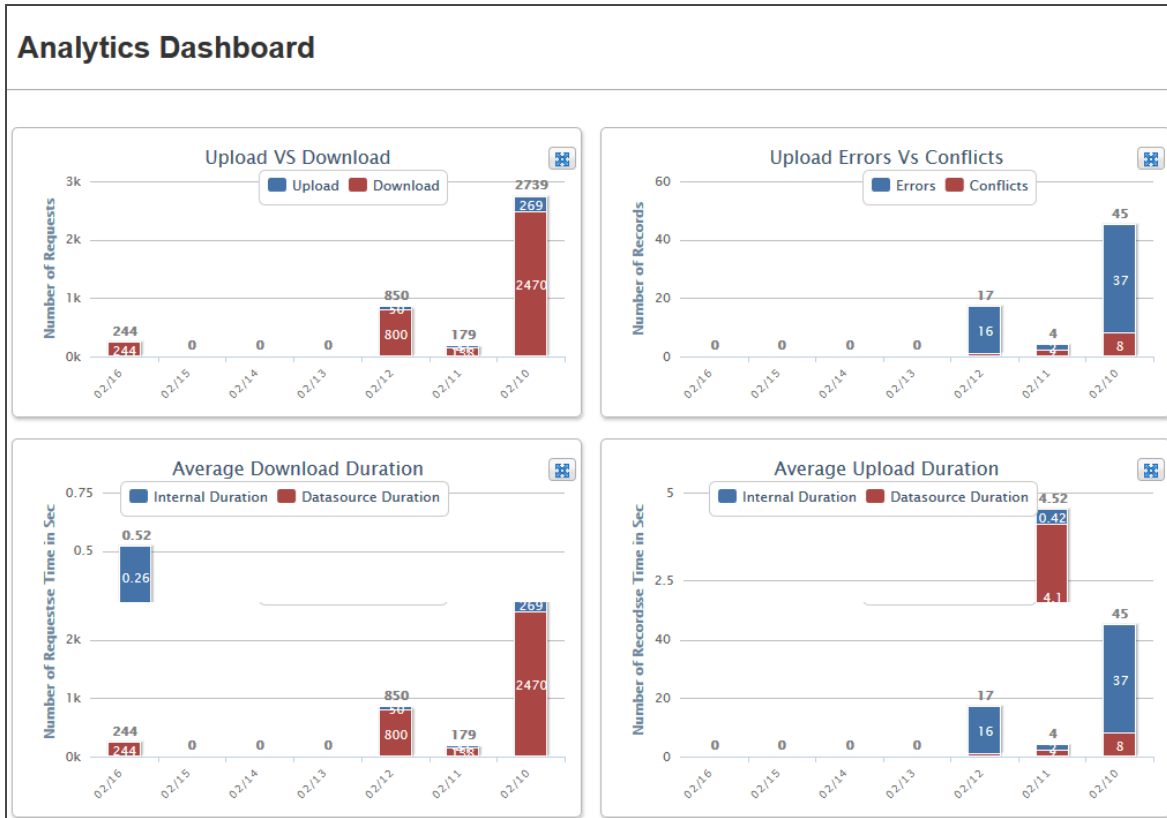
Login

User ID

Password

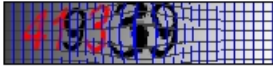

Login

4. After successful login, the **Analytics Dashboard** screen appears.



Note: You cannot view the graphs when the respective tabs are not populated with data.

5. **Captcha Implementation:** In Sync Console login page, a captcha image is added after three consecutive failed login attempts to avoid brute-force attack.

<h3>Kony Sync</h3> <p>Kony Sync framework is a comprehensive synchronization platform that enables developers to add synchronization capabilities to mobile applications. Kony Sync framework solves the problem of how to synchronize any type of data in any relational database management store using any protocol over any topology. Fundamental to Kony Sync framework is the ability to support offline and collaborative data between devices and the server.</p>	<h3>Login</h3> <p>Your login attempt was not successful, try again. Reason : Bad credentials</p> <input type="text" value="User ID"/> <input type="password" value="Password"/>   <input type="text" value="Type the text as shown above"/> <input type="button" value="Login"/>
---	--

Note: By default, the size of captcha image is six letters.

3.1 Role Based Access

Kony Fabric Sync Console application restricts access to the modules based on the user login. The system controls access privileges of the application features based on the login role. There are two user login roles: **Admin User** and **Report Viewer**. You can login to the application based on your role. You can categorize and assign role for each user as needed.

- **Admin User:** The admin user can access all the modules in the Management Console.
- **Report Viewer:** Report viewers can access only Monitoring Modules.

3.2 Log out

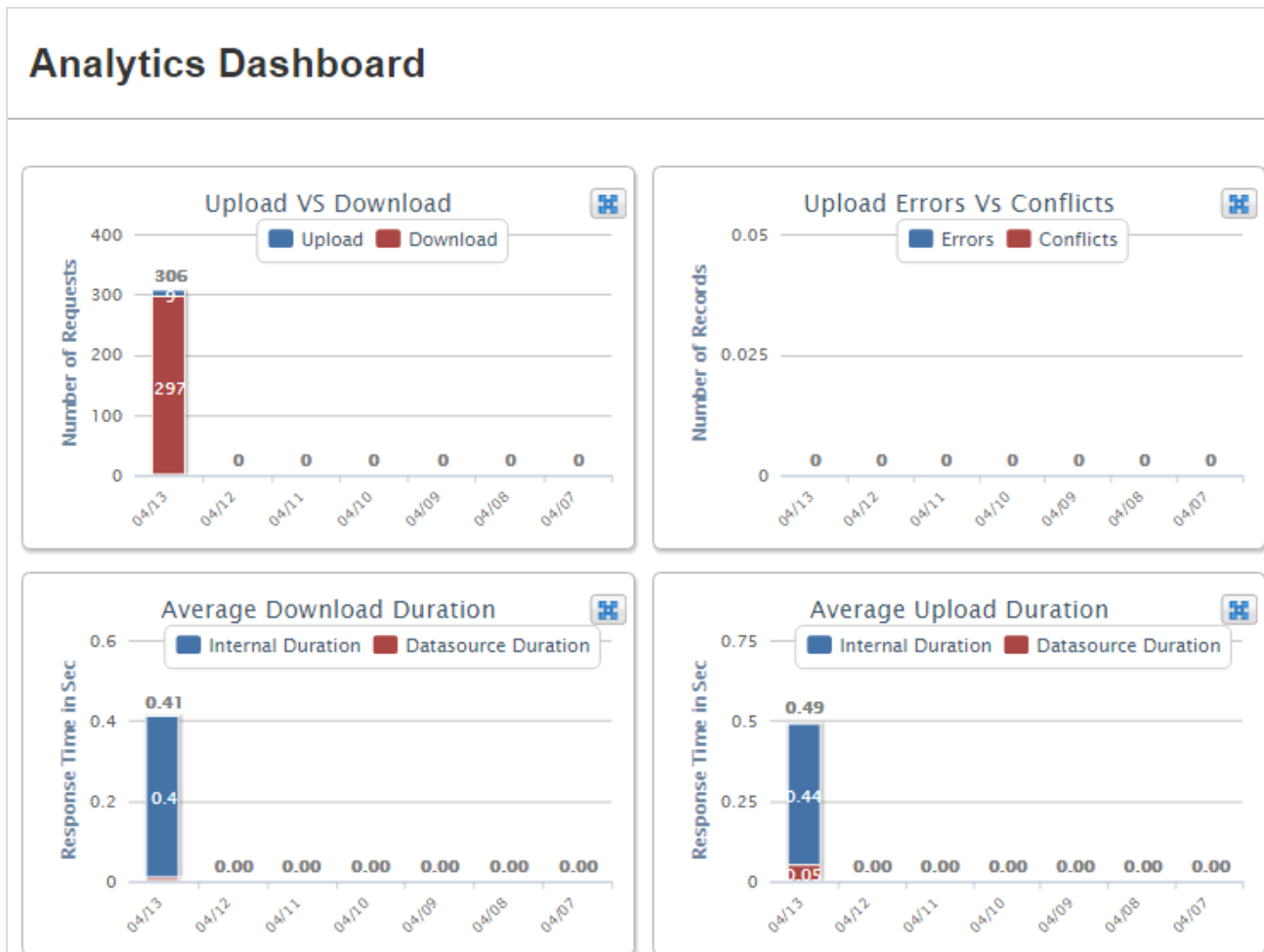
Click **Log out** from top right corner of the screen to log out from Kony Fabric Sync Console.



Note: The logout option is available in all the screens of the application.

4. Analytics Dashboard

Analytics Dashboard is the landing page of the application. This feature enables you to view the system performance based on various criteria for a selected duration of time interval.

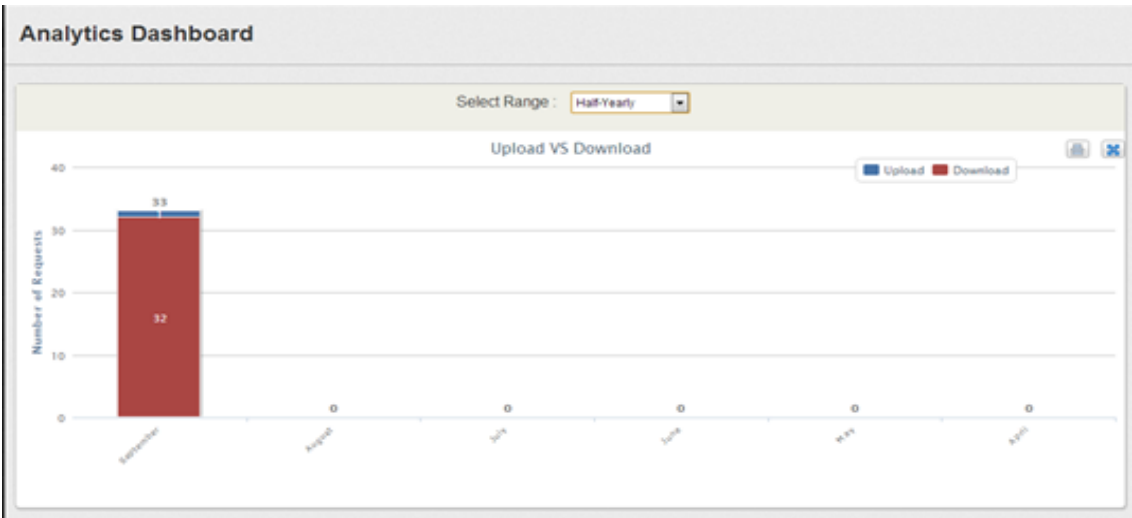


The four different reports that you can view are:

- Upload versus Replica
- Number of Sync Errors versus Conflicts
- Avg Download Response Time
- Avg Upload Response Time

By clicking the Maximize button on any given report, the drop-down for choosing **period** appears as shown. You can view the data on a weekly, monthly, half-yearly and yearly basis.

Note: You cannot view the graphs when the respective tabs are not populated with data.



5. Configuration

The Configuration feature of Kony Fabric Sync Console enables you to view the configuration settings. The configuration details are divided into the following sections. Each section displays the settings related to the section.

- [Sync Configurations](#)
- [Runtime Configuration](#)
- [Environment Details](#)

5.1 Sync Configuration

The **Sync Configuration** section enables you to perform various tasks such as viewing an application and its configuration file, adding, editing and deleting an application.

Applications
[+ Add Application](#)
[Download Scripts](#)

🗑️ Delete
Page 1 of 1

	Application ID ↕	Version	Application Name	Inserted On	Updated On	View Configuration	View History	Edit Datasource	Authentication
<input type="checkbox"/>									
<input type="checkbox"/>	1000000286db1a86	1.0	PersistentTestApp	02/12/2016 12:27:53.0 +0530	02/12/2016 12:27:53.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service
<input type="checkbox"/>	10000002e1028704	1.0	UploadTest	02/11/2016 17:42:18.0 +0530	02/11/2016 19:31:05.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service
<input type="checkbox"/>	720f2619- ea3d-4764- bf05-fb04e8d1aef3	1.0	KonySyncAutomat...	02/08/2016 17:15:07.0 +0530	02/16/2016 18:34:28.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service

Following actions can be performed in this screen:

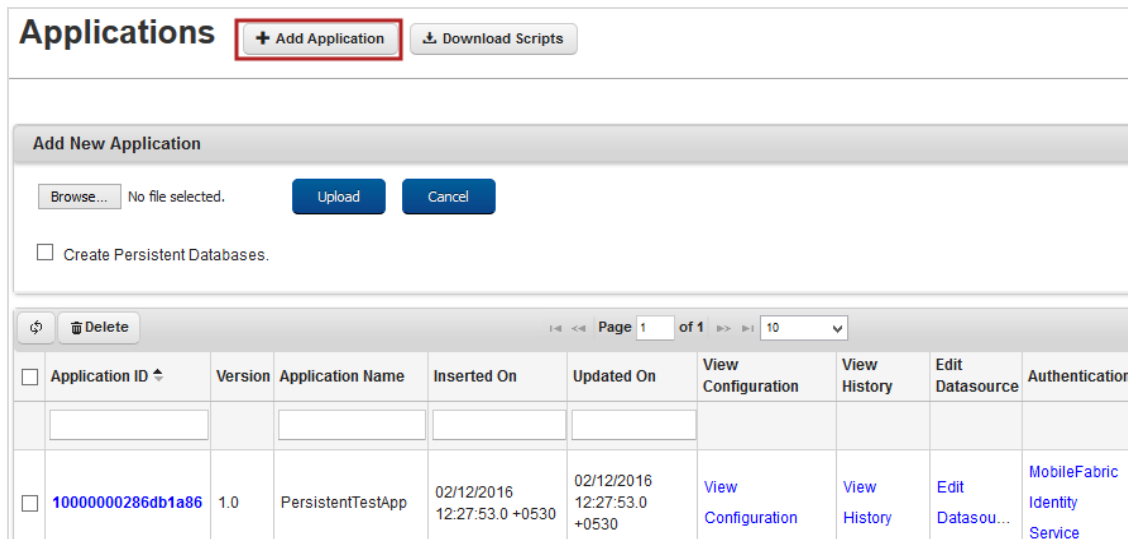
- [Add Application](#)
- [View Configuration](#)
- [Change Configuration](#)
- [Delete Application](#)
- [Edit Datasources](#)
- [Assign Authentication Profile to Application](#)
- [Generate Upload and Replica DB Scripts](#)
- [Pagination](#)

5.1.1 Add Application

Kony Fabric Sync Console enables you to add an application when needed.

To add an application, follow these steps:

1. Click **Add Application** to add a new application in the **Applications** screen. The **Add New Application** view appears.

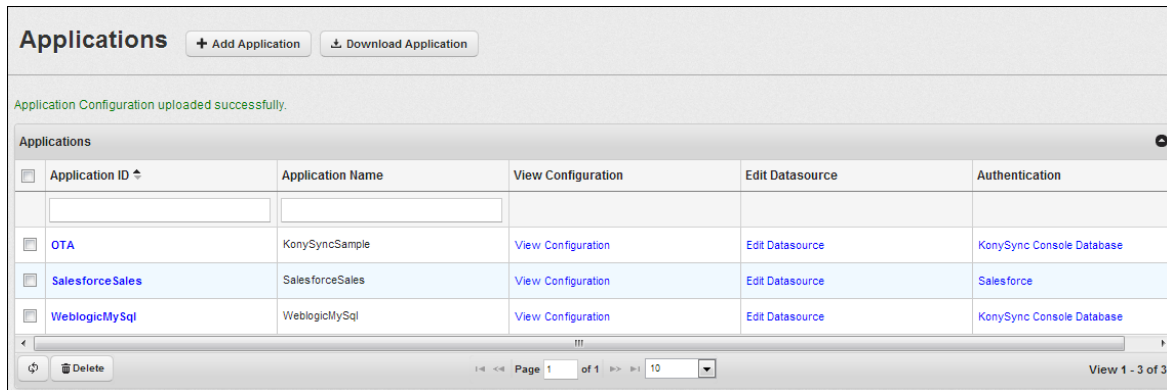


The screenshot shows the 'Applications' screen with a '+ Add Application' button highlighted in red. Below it is the 'Add New Application' form, which includes a 'Browse...' button, 'Upload' and 'Cancel' buttons, and a checkbox for 'Create Persistent Databases'. Below the form is a table listing applications.

<input type="checkbox"/>	Application ID ↕	Version	Application Name	Inserted On	Updated On	View Configuration	View History	Edit Datasource	Authentication
<input type="checkbox"/>	10000000286db1a86	1.0	PersistentTestApp	02/12/2016 12:27:53.0 +0530	02/12/2016 12:27:53.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service

2. Click **Browse** to get the configuration file and then click **Upload**.
After successfully uploading the configuration file, a confirmation message, **Application Configuration uploaded successfully** appears. The added application appears under the

Applications list.



Application ID	Application Name	View Configuration	Edit Datasource	Authentication
OTA	KonySyncSample	View Configuration	Edit Datasource	KonySync Console Database
SalesforceSales	SalesforceSales	View Configuration	Edit Datasource	Salesforce
WeblogicMySql	WeblogicMySql	View Configuration	Edit Datasource	KonySync Console Database

5.1.2 View Configuration

You can view the configuration file to know about the various configurations.

Click **View Configuration** link of the Application ID column. The configuration file for the selected Application ID appears.

```

- <SyncConfiguration AppID="10000000286db1a86" Name="PersistentTestApp" UpdatedDateTime="12/02/2016
12:27:44" Version="5ffe50cde0ab3f4728fed9a251b51652705fb808e0918e277393cc6ec3cff154"
PersistentDBType="ORACLE">
- <SyncScopes>
- <SyncScope Name="s1" Datasource="222" Strategy="PersistentSync">
- <ChangeTrackingPolicy>
  <Type>datasource</Type>
- <ChangeTrackingColumnsSupported>
  <LastUpdateTimeStamp>true</LastUpdateTimeStamp>
  <SoftDeleteFlag>true</SoftDeleteFlag>
</ChangeTrackingColumnsSupported>
</ChangeTrackingPolicy>
- <ConflictPolicy>
  <Type>clientwins</Type>
</ConflictPolicy>
<Operations/>
- <SyncObject IntersectionTable="false" Generated="false" SourceName="country" GlobalName="country"
SourceSchema="advocate">
- <SyncAttributes>
- <Key>
  <Attribute GlobalName="CountryID"/>
</Key>
  <SyncAttribute SourceName="CountryID" GlobalName="CountryID" Type="integer"
IsNull="false" Length="10" Autogenerated="true"/>
  <SyncAttribute SourceName="SoftDeleteFlag" GlobalName="SoftDeleteFlag" Type="boolean"
IsNull="true" Length="0" Autogenerated="false"/>

```

5.1.3 Change Configuration

Kony Fabric Sync Console provides you an option to change the configuration file when needed.

To change the configuration file of an application, follow these steps:

1. Click the desired **Application ID**. The **Edit Application** view appears with an option to browse for the configuration file.

Application ID	Version	Application Name	Inserted On	Updated On	View Configuration
<input checked="" type="checkbox"/> 10000000286db1a86	1.0	PersistentTestApp	02/12/2016 12:27:53.0 +0530	02/12/2016 12:27:53.0 +0530	View Configuration

2. Click **Browse** to browse the required new configuration file and click **Upload**. After the successful update, a confirmation message, **Updated the Application successfully** appears.
3. Click **Cancel** to abort the operation.

5.1.4 Delete Application

You can either delete a single application or multiple applications.

To delete an application, follow these steps:

1. On Kony Fabric Sync Console, under **Configurations**, click the **Sync Configurations** tab to view the list of applications available.

Applications [+ Add Application](#) [Download Scripts](#)

[Delete](#) Page 1 of 1 10

<input type="checkbox"/>	Application ID ↕	Version	Application Name	Inserted On	Updated On	View Configuration	View History	Edit Datasource	Authentication
<input type="checkbox"/>	10000000286db1a86	1.0	PersistentTestApp	02/12/2016 12:27:53.0 +0530	02/12/2016 12:27:53.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service
<input type="checkbox"/>	100000002e1028704	1.0	UploadTest	02/11/2016 17:42:18.0 +0530	02/11/2016 19:31:05.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service
<input type="checkbox"/>	720f2619- ea3d-4764- bf05-fb04e8d1aef3	1.0	KonySyncAutomat...	02/08/2016 17:15:07.0 +0530	02/16/2016 18:34:28.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service

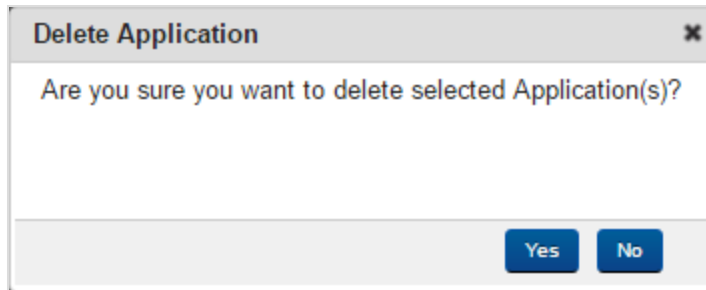
2. Click an **Application ID** checkbox to delete and click **Delete**.

[Delete](#) Page 1 of 1 10

<input type="checkbox"/>	Application ID ↕	Version	Application Name	Inserted On	Updated On	View Configuration	View Hi
<input checked="" type="checkbox"/>	d7bae973-d9eb-4241- 8db0-01bfd768201a	1.0	KonySyncAutomation	04/13/2016 13:15:58.0 +0530	04/13/2016 13:15:58.0 +0530	View Configuration	View His
<input type="checkbox"/>	Final	1.0	Final	04/13/2016 12:18:44.0 +0530	04/13/2016 12:18:44.0 +0530	View Configuration	View His

[Delete](#) Page 1 of 1 10

- A confirmation message, **Are you sure you want to delete selected Application(s)?** appears:



- Click **Yes** to delete the selected application.

After successful deletion, a confirmation message, **Application(s) deleted successfully** appears.

Applications									
+ Add Application Download Scripts									
Application(s) deleted successfully.									
Delete Page 1 of 1 10									
<input type="checkbox"/>	Application ID ↕	Version	Application Name	Inserted On	Updated On	View Configuration	View History	Edit DataSource	Authentication
<input type="checkbox"/>	10000000289288eb0	1.0	BinaryTestingOnDe...	02/17/2016 10:26:12.0 +0530	02/17/2016 10:26:12.0 +0530	View Configuration	View History	Edit DataSource	MobileFabric Identity Service
<input type="checkbox"/>	4b025354-0539-44... a703-113840902c59	1.0	LCAllServeApp	02/17/2016 10:30:40.0 +0530	02/17/2016 10:30:40.0 +0530	View Configuration	View History	Edit DataSource	MobileFabric Identity Service

5.1.5 Edit DataSources

Kony Fabric Sync Console provides you an option to edit the datasources of a sync console application.

To edit the datasources of an application, follow these steps:

- Click **Edit DataSources** of the desired application from the list of applications displayed. The **Edit DataSource** dialog appears with an option to update the connection parameters. You can use the same page to modify all the supported datasources such as Middleware Database or Web service Endpoint.

Edit Datasource

Application ID : 10000002fecd5fad

45e41ee5-c82c-4c1c-a9f6-9de583cbfdbb : JSON

Service ID : get

preprocessorname :	<input type="text"/>
postprocessorname :	<input type="text"/>
preprocessorJS :	<input type="text"/>
postprocessorJS :	<input type="text"/>
endpointUrl :	<input type="text" value="http://115.114.92.62:80/Country?@filter=CountryID+EQ+\$Id"/>
ignorehttpproxy :	<input type="text" value="true"/>
http.method :	<input type="text" value="GET"/>
dataObjectName :	<input type="text"/>
sockettimeout :	<input type="text"/>
responseEncoding :	<input type="text" value="UTF-8"/>
isembedxmlpresent :	<input type="text" value="false"/>
retrycount :	<input type="text" value="5"/>

2. You can test the latency and connectivity during customer ticket debugging by providing the valid database details and clicking on **Test Connection**. A message will be displayed as **Test Connection Successful**.
3. Click **Update** to update the modifications.
4. Click **Reset** to reset the updated changes .
5. Click **Cancel** to abort the operation.

5.1.6 Assign Authentication Profile to Application

Kony Fabric Sync Console provides you an option to assign Authentication profiles (created in **User Management > Authentication** tab) to an application.

Note: You may refer to [Authentication](#) for detail information on authentication.

To assign or change the authentication profile of an application, follow these steps:

1. On Kony Fabric Sync Console, under **Configurations**, click the **Sync Configurations** tab to see the list of available applications.

Applications

+ Add Application

Download Scripts

<input type="checkbox"/>	Application ID ↕	Version	Application Name	Inserted On	Updated On	View Configuration	View History	Edit Datasource	Authentication
<input type="checkbox"/>	1000000286db1a86	1.0	PersistentTestApp	02/12/2016 12:27:53.0 +0530	02/12/2016 12:27:53.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service
<input type="checkbox"/>	10000002e1028704	1.0	UploadTest	02/11/2016 17:42:18.0 +0530	02/11/2016 19:31:05.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service
<input type="checkbox"/>	720f2619- ea3d-4764- bf05-fb04e8d1aef3	1.0	KonySyncAutomat...	02/08/2016 17:15:07.0 +0530	02/16/2016 18:34:28.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service

2. Click the hyperlink under **Authentication** column of the desired application. The **Assign Authentication** dialog appears.

Assign Authentication ✕

Assign Authentication Profile to Application: **1000000286db1a86**

Select an Authentication Type MobileFabric Identity Service ▼

Save
Cancel

3. Select an authentication type from the authentication types drop-down and click **Save**.

Note: In Kony Sync 5.0, you should assign custom authentication as mentioned in [Custom Authentication Manager](#).

5.1.7 Generate Upload and Replica DB Scripts

Kony Fabric Sync Console provides you an option to generate upload and replica DB scripts while adding the application itself.

To create the DB scripts, while adding the application, follow these steps:

1. On Kony Fabric Sync Console, under **Configurations**, click the **Sync Configurations** tab to see the list of available applications.

Applications

+ Add Application

Download Scripts

<input type="checkbox"/>	Application ID ↕	Version	Application Name	Inserted On	Updated On	View Configuration	View History	Edit Datasource	Authentication
<input type="checkbox"/>	10000000286db1a86	1.0	PersistentTestApp	02/12/2016 12:27:53.0 +0530	02/12/2016 12:27:53.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service
<input type="checkbox"/>	100000002e1028704	1.0	UploadTest	02/11/2016 17:42:18.0 +0530	02/11/2016 19:31:05.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service
<input type="checkbox"/>	720f2619- ea3d-4764- bf05-fb04e8d1aef3	1.0	KonySyncAutomat...	02/08/2016 17:15:07.0 +0530	02/16/2016 18:34:28.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service

- Click **Add Application** to add a new application. The **Add New Application** view appears.

Applications + Add Application Download Scripts

Add New Application

Browse... No file selected. Upload Cancel

Create Persistent Databases.

🔄 Delete Page 1 of 1 10

<input type="checkbox"/>	Application ID ↕	Version	Application Name	Inserted On	Updated On	View Configuration	View History	Edit Datasource	Authentication
<input type="checkbox"/>	10000000286db1a86	1.0	PersistentTestApp	02/12/2016 12:27:53.0 +0530	02/12/2016 12:27:53.0 +0530	View Configuration	View History	Edit Datasou...	MobileFabric Identity Service

- Click **Browse** to get the configuration file.

Applications + Add Application Download Scripts

Add New Application

Browse... Salesforce.xml Upload Cancel

Create Persistent Databases.

🔄 Delete Page 1 of 1 10

<input type="checkbox"/>	Application ID ↕	Version	Application Name	Inserted On	Updated On	View Configuration
<input type="checkbox"/>	10000000286db1a86	1.0	PersistentTestApp	02/12/2016 12:27:53.0 +0530	02/12/2016 12:27:53.0 +0530	View Configuration

- Select the **Create Persistent Databases** checkbox and then click **Upload**.

The next screen shows the configuration details that are captured from the configuration file:

DB Config

✓ Generating DDL scripts for Replica and Upload Schema
Executing DDL scripts for Replica schema.

Provide Persistent Database details below.

Driver Class* :

Database JDBC URL* :

Username* :

Password* :

Executing DDL scripts for Upload schema.
Creating / Updating the application to Management Console.

5. Enter the username and password of the database and click **Execute** for both Replica and Upload schema.

DB Config

✓ Generating DDL scripts for Replica and Upload Schema
✓ Executing DDL scripts for Replica schema.
Executing DDL scripts for Upload schema.

Provide Persistent Database details below.

Driver Class* :

Database JDBC URL* :

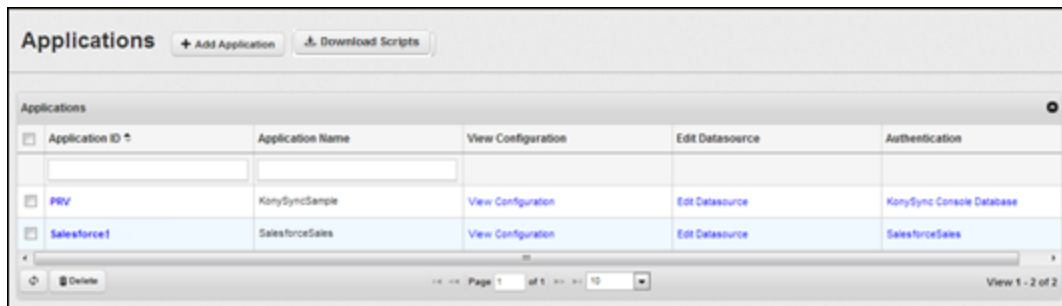
Username* :

Password* :

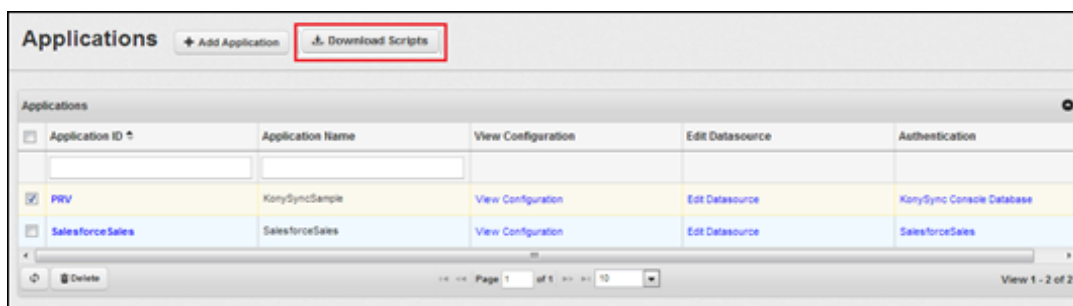
Creating / Updating the application to Management Console.

After the successful uploading of DB scripts, a confirmation message, **Updated the Application successfully** appears.

6. Click **Done**.
The added application appears in the grid.



7. To download DB scripts, you can select the application and click **Download Scripts**.



Note: You can download only those applications that are added using the **Create Persistent Databases** checkbox.

5.2 Runtime Configuration

The runtime configuration details of Kony Fabric Sync Console enables you to view the configuration settings. The configuration details are divided into the following sections:

- [Log Configuration](#)
- [Sync Services Properties](#)
- [Server Async Properties \(Tomcat\)](#)
- [Persistent Database Configuration](#)
- [Persistent Connection Pool Properties](#)

- [Enterprise Connection Pool Properties](#)
- [Scheduler Properties](#)
- [Http Proxy Properties](#)
- [Sync Console Properties](#)

Each section displays the related settings.

5.2.1 Log Configuration

The **Log Configuration** section displays the general configuration settings of an application. You can modify the settings of each feature displayed from the drop-down list using the available options. The following image displays different options in the **Log Configuration** section.

— Log Configuration	
Change Replay Logging	ERROR ▼
Trace Log Level	ON ▼
Monitoring Data Retention Period	10 ▼ Day(s)
Log Level	ERROR ▼
Log All Device Request/Response	Disabled ▼
Log All Sync Target Request/Response	Disabled ▼
Job History Logging	ON ▼

You can configure the following features in the section.

- **Change Replay Logging:** The change replay logging allows you to configure log levels for the **Change replay** tab. The options to configure this feature are:

- **ON**: Select the option to log all the change replay actions.
- **OFF**: Select the option to disable logging on the **Change replay** tab.
- **ERROR**: Select the option to display only error logs on the **Change replay** tab.

Note: By default, Change Replay Logging is configured to **ERROR**.

- **Trace Log Level:** The trace log feature helps you to track logs that appear on the trace logs screen. The options to configure this feature are:

— Log Configuration	
Change Replay Logging	ERROR ▾
Trace Log Level	<div style="border: 2px solid red; padding: 2px;"> ON ▲ OFF ERROR MINIMAL MEDIUM ON </div>
Monitoring Data Retention Period	Day(s)
Log Level	
Log All Device Request/Response	
Log All Sync Target Request/Response	Disabled ▾
Job History Logging	ON ▾

- **OFF**: Set the feature to **OFF**, to disable the application from capturing the logs.
- **ERROR**: When you select the option, the trace log entries are only error logs.
- **MINIMAL**: When you select this option, only the trace log entries only with the status (Success / Failed) are logged. The request/response headers and payloads are not logged.
- **MEDIUM**: When you select this option, only the trace log entries with request/response headers are logged.

- **ON:** You can set the feature to **ON** from the drop-down list, to capture all the logs.

Note: By default, the feature is set to **OFF**. To capture the logs in the [Logs](#) module, you should set this feature to **ON**. For more information on Trace Logs, refer [Trace Log](#) section.

- **Monitoring Data Retention Period:** You can define the number of days to retain the data that appears on the **Monitoring** tab.
- **Log Level:** You can set the levels of log4j logging by selecting the following options from the drop-down list. You can also disable log level by selecting the option **OFF**.
 - **TRACE:** Select the option to set the log4j log level to log all the traces .
 - **DEBUG:** Select the option to set the log4j log level to log all the debug entries.
 - **INFO:** Select the option to set the log4j log level to log the "INFO" tagged logs.
 - **WARN:** Select the option to set the log4j log level to log all the warnings.
 - **ERROR:** Select the option to set the log4j logs level to log all the errors.
 - **FATAL:** Select the option to set the log4j log level to log all the fatal errors.
- **Log All Device Request/Response:** Set the option to **Enabled** to log all the device request/response. Select **Disabled** to disable this feature.
- **Log All Sync Request/Response:** This feature logs all the sync request/response by selecting **Enabled** from the drop-down. You can disable this feature by selecting **Disabled**.
- **Job History Logging:** The Job History Logging feature helps you to set the log level of the job history screen. The following options are available to set the feature from the **Configuration** screen.

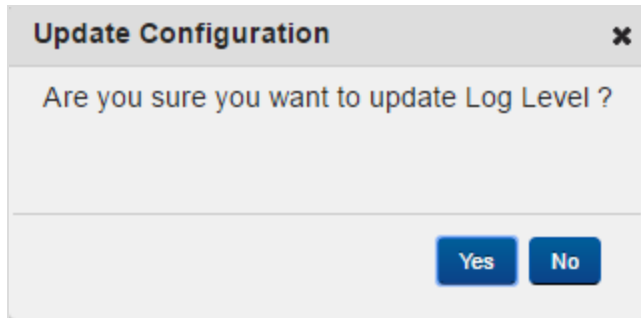
— Log Configuration	
Change Replay Logging	ERROR ▾
Trace Log Level	ON ▾
Monitoring Data Retention Period	10 ▾ Day(s)
Log Level	ERROR ▾
Log All Device Request/Response	Disabled ▾
Log All Sync Target Request/Response	Disabled ▾
Job History Logging	ON ▾
— Password Policy Configuration	
Enforce Password Policy	

- **ON:** Select the option from the drop-down list to log the job history from the [Scheduled Jobs](#) window.

Note: By default, the job history logging feature is set to **ON**.

- **OFF:** Select the option to disable the job history logging.
- **ERROR:** Select the option to log the errors in the job history.

- Upon updating each property the following pop-up window is displayed.



- Click **Yes** to auto save the property changes. Otherwise, click **No**.

5.2.2 Sync Service Properties

This section displays the properties of Sync Services.

— Sync Services Properties	
Upload Response Wait Time	<input type="text" value="30000"/>
Upload Request Resubmit Time	<input type="text" value="1800000"/>
Monitoring Thread Pool Size	<input type="text" value="10"/>
Send Server Details In Response	<input checked="" type="checkbox"/>
Send Stacktrace In Response	<input checked="" type="checkbox"/>

5.2.3 Server Async Properties (Tomcat)

This section displays the Async properties of Sync on Tomcat server.

— Server Async Properties (Tomcat)	
Async Response Timeout	<input type="text" value="60"/>
Async Core Pool Size	<input type="text" value="100"/>
Async Max Pool Size	<input type="text" value="200"/>
Async Keep Alive Seconds	<input type="text" value="60"/>
Async Queue Capacity	<input type="text" value="0"/>

5.2.4 Persistent Database Configuration

The Persistent Database Configuration section contains details about persistent database.

— Persistent Database Configuration	
Use JNDI	<input type="text" value="FALSE"/>
Database Type	<input type="text" value="ORACLE"/>
Host	<input type="text"/>
Port	<input type="text"/>
Instance Name/SID/Database Name	<input type="text"/>
Username	<input type="text"/>
Password	<input type="text"/>
<input type="button" value="Test Connection"/> <input type="button" value="Save Configuration"/> *Requires Sync Server restart for changes to take effect	

- The **Use JNDI** field is configured as *FALSE* always. To configure as **TRUE**, configure JNDI Datasources as `jdbc/<appid>_UploadQueue` and `jdbc/<appid>_Replica` for persistent sync configurations in the `syncservice.properties` file.
- Select the required database type, *MSSQLSERVER/ MYSQL/ ORACLE/ DB2/ POSTGRESS* from the **Database Type** drop-down. Enter the required details in **Host**, **Port**, **Instance Name/SID/Database Name** (if required), **Username** and **Password**.
- Click **Test Connection** to verify the connection details.

- Click **Save Configuration** to save all the properties.

Note: Restart Kony Fabric Sync Server for the changes to take effect.

5.2.5 Persistent Connection Pool Properties

This section displays the properties of the persistent connection pool.

— Persistent Connection Pool Properties	
Max Active	<input type="text" value="30"/>
Initial Size	<input type="text" value="10"/>
Max Wait	<input type="text" value="30000"/>
Remove Abandoned Timeout	<input type="text" value="600"/>
Min Idle	<input type="text" value="10"/>
Max Idle	<input type="text" value="30"/>

5.2.6 Enterprise Connection Pool Properties

This section displays the properties of an enterprise connection pool.

— Enterprise Connection Pool Properties	
Max Active	<input type="text" value="30"/>
Initial Size	<input type="text" value="10"/>
Max Wait	<input type="text" value="30000"/>
Remove Abandoned Timeout	<input type="text" value="600"/>
Min Idle	<input type="text" value="10"/>
Max Idle	<input type="text" value="30"/>

5.2.7 Scheduler Properties

This section displays the properties of a scheduler.

— Scheduler Properties	
JobStore Driver Delegate Class	<input type="text" value="org.quartz.impl.jdbcjobstor"/>
Scheduler Instance Name	<input type="text" value="SyncScheduler"/>
JobStore Class	<input type="text" value="org.quartz.impl.jdbcjobstor"/>
Thread Class	<input type="text" value="org.quartz.simpl.SimpleThri"/>
Thread Count	<input type="text" value="12"/>
Thread Priority	<input type="text" value="5"/>
Job Store Clustered	<input type="checkbox"/>
Job Store Misfire Threshold	<input type="text" value="60000"/>

5.2.8 Http Proxy Properties

This section displays the properties of Http proxy.

— Http Proxy Properties	
Enable Http Proxy	<input type="checkbox"/>
Http Proxy Host	<input type="text"/>
Http Proxy Port	<input type="text"/>
Http Proxy Username	<input type="text"/>
Http Proxy Password	<input type="text"/>

5.2.9 Sync Console Properties

This section displays the properties of Sync Console.

Sync Console Properties	
Sync Service Context	<input type="text" value="syncservice"/>
Reports Viewer Pages	<input type="text"/>
Sync Console Login Attempts	<input type="text" value="3"/>
Sync Console Captcha Textlength	<input type="text" value="6"/>
Mask Parameters in View Sync Config	<input type="text"/>

Important: For the groups which do not have the **Save Configuration** button, a pop-up window is displayed. Click **Yes** button for the property changes to be auto-saved.

Properties can also be updated directly in the database. `Property value` and `updateTimeStamp` of the property must be updated for the changes to reflect in run time.

After the changes are complete, below properties require restart of the server for the changes to get affected.

- All Persistent Connection Pool Properties Group
- All Http Proxy Properties Group
- All Enterprise Connection Pool Properties Group
- All Scheduler Properties Group
- Sync Log Location Property
- Sync Log Option Property

5.3 Environment Details

The Environment Details of Kony Fabric Sync Console enables you to view the details of the environment. The environment details are divided into the following sections:

- [Build](#)
- [Console Database](#)
- [Java](#)
- [Kony Fabric Environment Details](#)
- [OS](#)

Each section displays the related details.

5.3.1 Build

The Build section displays the current version of Kony Fabric Sync and gateway that are in use.

— Build	
Kony Sync Version	MobileFabricInstaller-QA-7.0.0_v201602080647_r172
Gateway Version	5.6.67.0

Note: The Build, Console Database, Java, Kony Fabric Environment Details, and OS sections have predefined information and do not allow modifications.

5.3.2 Console Database

The Console Database section contains details about the database configurations.

— Console Database	
Hibernate Dialect Class	com.kony.sync.console.dialect.CustomMySQLDialect
Database Product Version	5.6.23-log
Database Product Name	MySQL
JDBC Driver Name	MySQL Connector Java
JDBC Driver Version	mysql-connector-java-5.1.26
Schema Name	AutomationsyncconsoledbIDEMF

5.3.3 Java

The Java section contains details of Java configurations.

— Java	
Java Runtime Version	1.8.0_51
Java Runtime Vendor	Oracle Corporation
Java Installation Directory	D:\MobileFabricnew\jre
Java Classpath	D:\MobileFabricnew\tomcat\bin\bootstrap.jar;

5.3.4 Kony Fabric Environment Details

The Environment Details section displays the environment details of Kony Fabric.

— MobileFabric Environment Details	
Environment API Version	1.1
Environment Name	LocalDevEnv
Environment Auth URL	http://10.10.25.227:4949/authService/100000002
Environment GUID	6ff2c5ae-8e18-4085-b559-4a721f096fb9
Account Auth URL	http://10.10.25.227:4949/authService/accounts
Account GUID	d07d77ba-e75a-411f-932a-d90d02c15717
Account ID	100000002
Account API Base URL	http://10.10.25.227:4949/accounts
Environment Service URL	http://10.10.25.227:4949
Account UI Base URL	http://10.10.25.227:4949/authService/accounts

5.3.5 OS

The OS section contains configuration details of the operating system.

— OS	
Operating System	Windows 7

6. User Management

You can view the users of Kony Fabric Sync Console under **User Management** tab. This module consists of four sub-modules. They are [User](#), [Role](#), [Group](#) and [Authentication](#).

Note: By default, the list of 10 users are displayed. You can change the number of users to view by selecting from the drop-down corresponding to **Page**.

6.1 User

The **Users** tab enables you to view the list of users and manage them. You can perform the following tasks:

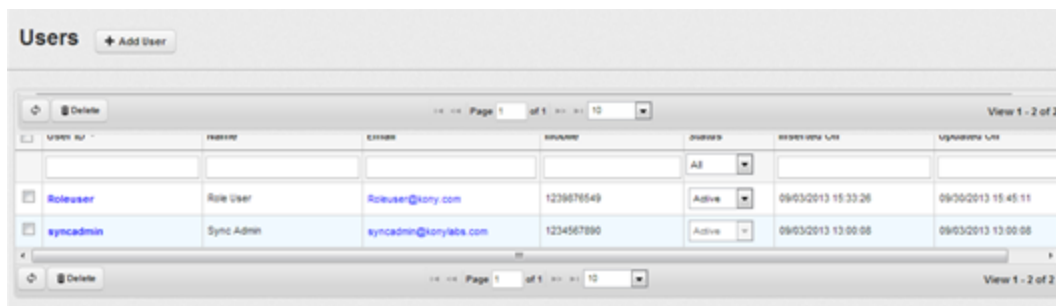
- [Searching a User](#)
- [Adding a User](#)
- [Updating User Details](#)
- [Deleting a User](#)
- [Enabling a User](#)
- [Disabling a User](#)
- [Assigning a User to Group](#)
- [Unassigning a User to Group](#)
- [Assigning a Device to the User](#)

6.1.1 Searching a User

Searching a User feature enables you to search for a user. This feature displays the User ID details such as **User Name**, **Email**, **Mobile**, **Status**, **Inserted On**, **Updated On**, **Group Name** and **Device ID**. The search results displays all User IDs that start with the User ID as entered in the search field. For example: If you enter the User ID *admin* in **Search** field, the search results displays admin1, admin2, admin3 and admin4 in the ascending order alphanumerically.

To search for a user, follow these steps:

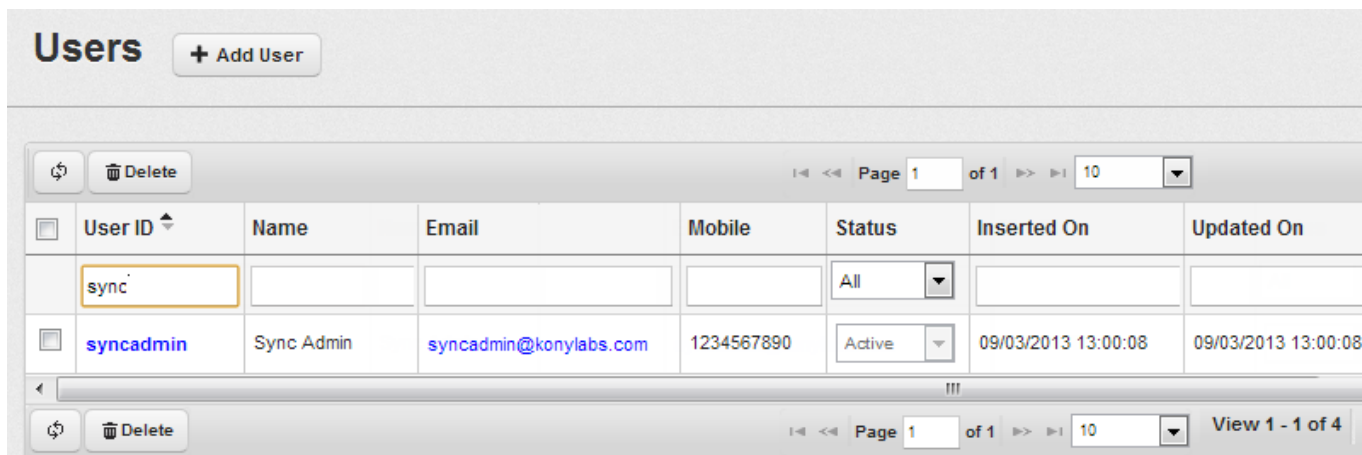
1. Go to the **Users** tab in **User Management** section. The list of users appears.



The screenshot shows the 'Users' management interface. At the top, there is a '+ Add User' button. Below it, there is a search bar and a 'Delete' button. The main area contains a table with the following columns: User ID, Name, Email, Mobile, Status, Inserted On, and Updated On. Two users are listed:

User ID	Name	Email	Mobile	Status	Inserted On	Updated On
Roleuser	Role User	Roleuser@kony.com	1239876549	Active	09/03/2013 15:33:26	09/03/2013 15:45:11
syncadmin	Sync Admin	syncadmin@konylabs.com	1234567890	Active	09/03/2013 13:00:08	09/03/2013 13:00:08

2. Enter the desired **User ID** and click **Enter**. The User ID information appears.



The screenshot shows the 'Users' management interface with a search filter applied. The search bar contains the text 'sync'. The table below shows the search results:

User ID	Name	Email	Mobile	Status	Inserted On	Updated On
syncadmin	Sync Admin	syncadmin@konylabs.com	1234567890	Active	09/03/2013 13:00:08	09/03/2013 13:00:08

6.1.2 Adding a User

Adding a User feature enables you to add a user to the existing user list. Only System Administrator has the privilege to add a user. To add a user, follow these steps:

1. Go to the **Users** tab in **User Management** section. The list of users appears on the screen.

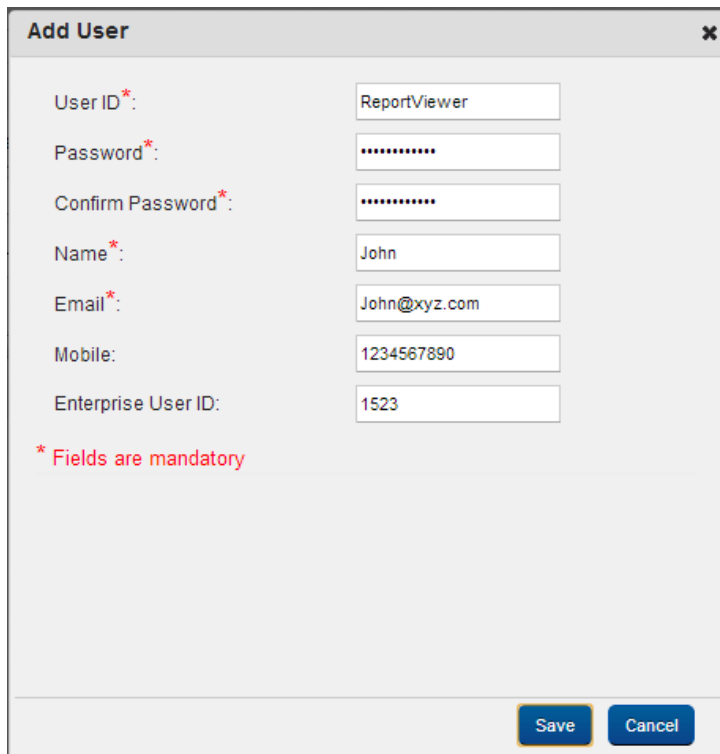


The screenshot shows the 'Users' management interface. At the top, there is a '+ Add User' button. Below it is a table with the following columns: User ID, Name, Email, Mobile, Status, Inserted On, and Updated On. The table contains two rows of data:

User ID	Name	Email	Mobile	Status	Inserted On	Updated On
Roleuser	Role User	Roleuser@kony.com	1239876549	Active	09/03/2013 15:33:26	09/30/2013 15:45:11
syncadmin	Sync Admin	syncadmin@konylabs.com	1234567890	Active	09/03/2013 13:00:08	09/03/2013 13:00:08

At the bottom of the table, there is a 'Delete' button and a pagination control showing 'Page 1 of 1' and 'View 1 - 2 of 2'.

2. Click Add User to add a new user. The **Add User** view appears.



The screenshot shows the 'Add User' form. The fields and their values are:

- User ID*: ReportViewer
- Password*: [Redacted]
- Confirm Password*: [Redacted]
- Name*: John
- Email*: John@xyz.com
- Mobile: 1234567890
- Enterprise User ID: 1523

A red asterisk indicates that the fields marked with an asterisk are mandatory. At the bottom right, there are 'Save' and 'Cancel' buttons.

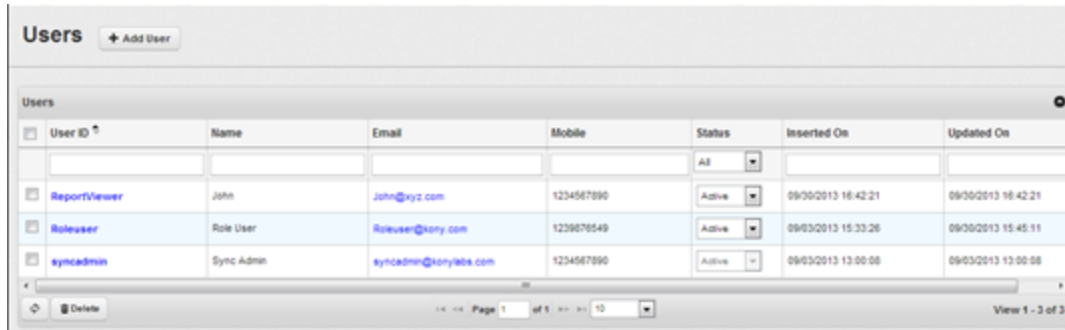
- a. **User ID:** The length of the User Id for alpha numeric characters should range from 8-100 without spaces. The special characters that you can use are Period (".") and Underscore ("_"). The starting character for a User ID can be alphabet, number, period or Underscore.
- b. **Password:** The length of the password should vary between 8-200 characters and must contain at least one alphabetical and one numerical character without spacing. User ID should not be a password. The starting character for a password can be alphabet, number, period, or Underscore.
- c. **Confirm Password:** Re-enter the password.
- d. **User Name:** The length of the User Name may range from 3-1000 characters. The User Name can include alphabets and numbers.
- e. **Email:** The maximum length of email ID can be 200 characters.
- f. **Mobile:** Mobile Number should be numerical with length 10-15 characters.
- g. **Enterprise User ID:** Enterprise User ID length should be between 8-1000 characters. The Enterprise User ID can include alphabets and numbers.

3. Click **Save**. After the user adds to the existing list, a confirmation message, "User <id> added successfully" appears on the window.

6.1.3 Updating User Details

Updating User Details feature enables you to view and update the details of a user. From the list of users, you can locate the User ID record manually by using **Previous** or **Next** or by using **Search** option. To update the user details, follow these steps:

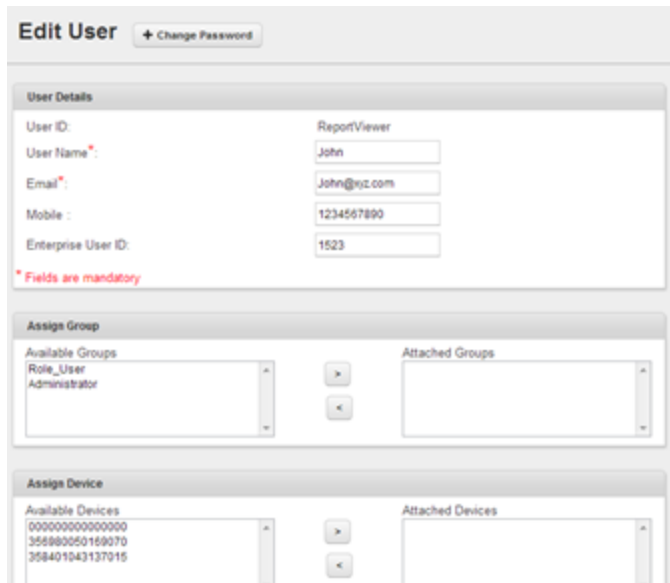
1. Go to the **Users** tab in the **User Management** section. The list of User IDs appears, locate the User ID record manually by using **Previous** or **Next** options or by using **Search** option.



The screenshot shows the 'Users' management interface. At the top, there is a '+ Add User' button. Below it is a table with columns: User ID, Name, Email, Mobile, Status, Inserted On, and Updated On. The table contains three rows of user data. At the bottom, there is a 'Delete' button and pagination information: 'Page 1 of 1' and 'View 1 - 3 of 3'.

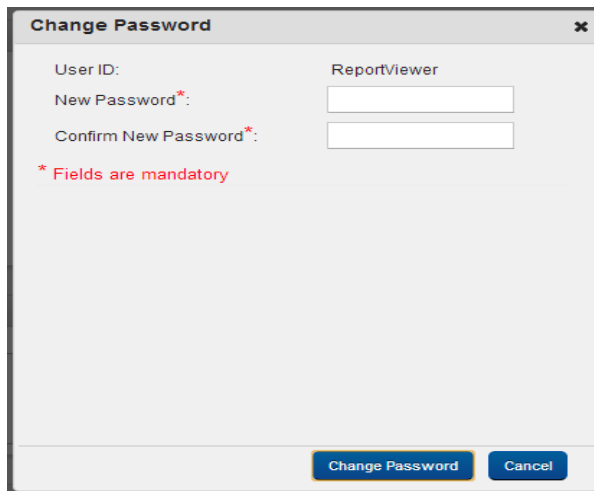
User ID	Name	Email	Mobile	Status	Inserted On	Updated On
ReportViewer	John	John@xyz.com	1234567890	Active	09/05/2013 16:42:21	09/05/2013 16:42:21
Roleuser	Role User	Roleuser@kony.com	1239876549	Active	09/05/2013 15:33:26	09/05/2013 15:45:11
syncadmin	Sync Admin	syncadmin@konylabs.com	1234567890	Active	09/05/2013 13:00:08	09/05/2013 13:00:08

2. Click the **User ID**. The **Edit User** dialog appears.



The screenshot shows the 'Edit User' dialog. It has a '+ Change Password' button at the top. The form is divided into three sections: 'User Details', 'Assign Group', and 'Assign Device'. The 'User Details' section has fields for User ID (ReportViewer), User Name (John), Email (John@xyz.com), Mobile (1234567890), and Enterprise User ID (1523). The 'Assign Group' section has 'Available Groups' (Role_User, Administrator) and 'Attached Groups'. The 'Assign Device' section has 'Available Devices' (00000000000000, 356980050169070, 358401043137015) and 'Attached Devices'. A red asterisk indicates that fields with an asterisk are mandatory.

3. Make the desired changes and click **Save**. After the changes are updated, a confirmation message, "User edited successfully" appears and the changes made to the User ID are reflected on the existing users view.
4. In the above screen the user can also change his password by clicking **Change Password**. The **Change Password** dialog appears:



The image shows a 'Change Password' dialog box. It contains the following fields and text:

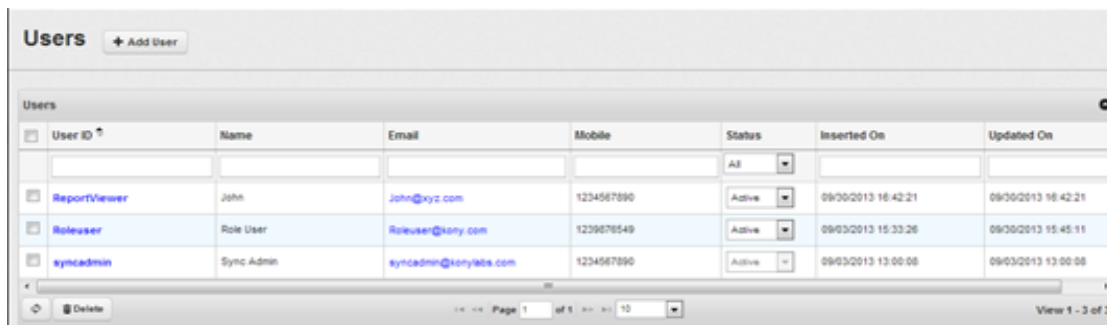
- User ID: ReportViewer
- New Password*: [Empty text box]
- Confirm New Password*: [Empty text box]
- * Fields are mandatory
- Buttons: Change Password, Cancel

6.1.4 Deleting a User

Deleting a User feature enables you to delete a single User ID or multiple User IDs from the existing User ID list. You can locate a User ID record manually by using **Previous** or **Next** options or by using **Search** option.

To delete a user, follow these steps:

1. Go to the **Users** tab in the **User Management** section. The list of users appears.



The image shows a screenshot of the 'Users' management interface. It includes a table with columns for User ID, Name, Email, Mobile, Status, Inserted On, and Updated On. There are also buttons for '+ Add User' and 'Delete'.

User ID	Name	Email	Mobile	Status	Inserted On	Updated On
ReportViewer	John	John@xyz.com	1234567890	Active	09/30/2013 16:42:21	09/30/2013 16:42:21
Roleuser	Role User	Roleuser@kony.com	1239876549	Active	09/03/2013 15:33:26	09/30/2013 15:45:11
kyncadmin	Sync Admin	kyncadmin@konylabs.com	1234567890	Active	09/03/2013 13:00:08	09/03/2013 13:00:08

2. Select the **User IDs** to delete.

User ID	Name	Email	Mobile	Status	Inserted On	Updated On
<input checked="" type="checkbox"/> ReportViewer	John	john@xyz.com	1234567890	Active	09/30/2013 16:42:21	09/30/2013 16:42:21
<input type="checkbox"/> Roleuser	Role User	Roleuser@kony.com	1239876549	Active	09/30/2013 15:33:26	09/30/2013 15:45:11
<input type="checkbox"/> syncadmin	Sync Admin	syncadmin@konylabs.com	1234567890	Active	09/30/2013 13:00:00	09/30/2013 13:00:00

3. Click **Delete**.

A confirmation message, "Are you sure you want to delete selected Users?" appears.

4. Click **Yes**.

The selected User ID profiles are deleted from the existing *Users* list.

6.1.5 Enabling a User

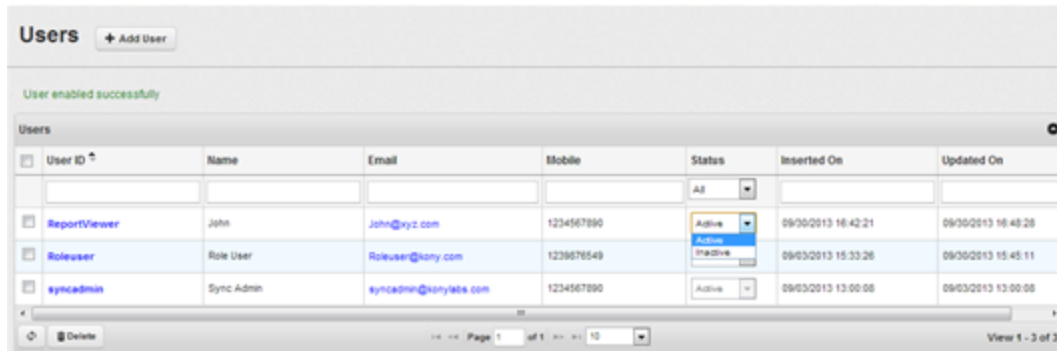
Enabling a privilege to a user feature helps you to enable a single or multiple users as required. The feature enables a user to gain access to Kony Fabric Sync Console.

To enable a privilege to a user, follow these steps:

1. Go to the **Users** tab in **User Management** Section. The list of users appears.

User ID	Name	Email	Mobile	Status	Inserted On	Updated On
<input type="checkbox"/> ReportViewer	John	JOHN@xyz.com	1234567890	Inactive	09/30/2013 16:42:21	09/30/2013 16:48:28
<input type="checkbox"/> Roleuser	Role User	Roleuser@kony.com	1239876549	Active	09/30/2013 15:33:26	09/30/2013 15:45:11
<input type="checkbox"/> syncadmin	Sync Admin	syncadmin@konylabs.com	1234567890	Active	09/30/2013 13:00:00	09/30/2013 13:00:00

2. Change **User Status** from **Inactive** to **Active**.



The screenshot shows the 'Users' management interface. At the top, there is a '+ Add User' button and a green notification message 'User enabled successfully'. Below this is a table with columns: User ID, Name, Email, Mobile, Status, Inserted On, and Updated On. The 'Roleuser' row is selected, and its 'Status' dropdown menu is open, showing 'Active' and 'Inactive' options. The 'Active' option is highlighted. The table also shows other users like 'ReportViewer' and 'syncadmin'. At the bottom, there is a 'Delete' button, a pagination control showing 'Page 1 of 1', and a 'View 1 - 3 of 3' indicator.

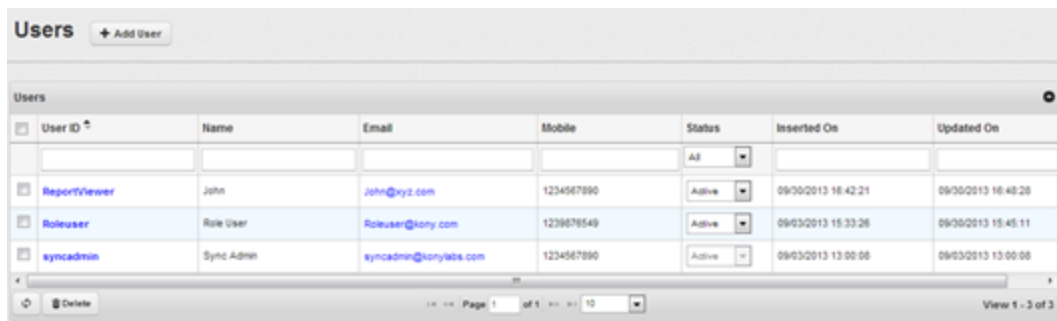
User ID	Name	Email	Mobile	Status	Inserted On	Updated On
ReportViewer	John	John@xyz.com	1234567890	Active	09/05/2013 16:42:21	09/05/2013 16:48:28
Roleuser	Role User	Roleuser@kony.com	1239678549	Inactive	09/05/2013 15:33:26	09/05/2013 15:45:11
syncadmin	Sync Admin	syncadmin@konylabs.com	1234567890	Active	09/05/2013 13:00:08	09/05/2013 13:00:08

6.1.6 Disabling a User

Disabling a user feature allows you to disable a single user or multiple users as required. It disables a user from gaining access to Kony Fabric Sync Console.

To disable a privilege to an user, follow these steps:

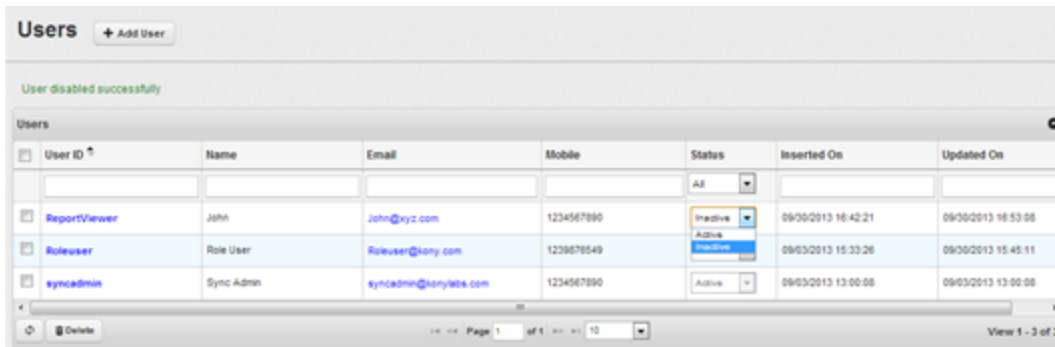
1. Navigate to the **Users** tab in the **User Management** section. The list of users appears.



The screenshot shows the 'Users' management interface. At the top, there is a '+ Add User' button. Below this is a table with columns: User ID, Name, Email, Mobile, Status, Inserted On, and Updated On. The table contains three rows of user data. At the bottom, there is a 'Delete' button, a pagination control showing 'Page 1 of 1', and a 'View 1 - 3 of 3' indicator.

User ID	Name	Email	Mobile	Status	Inserted On	Updated On
ReportViewer	John	John@xyz.com	1234567890	Active	09/05/2013 16:42:21	09/05/2013 16:48:28
Roleuser	Role User	Roleuser@kony.com	1239678549	Active	09/05/2013 15:33:26	09/05/2013 15:45:11
syncadmin	Sync Admin	syncadmin@konylabs.com	1234567890	Active	09/05/2013 13:00:08	09/05/2013 13:00:08

2. Change **User Status** from **Inactive** to **Active**. The below confirmation message appears.



The screenshot shows the 'Users' management interface. At the top, there is a green confirmation message: 'User disabled successfully'. Below this is a table with columns: User ID, Name, Email, Mobile, Status, Inserted On, and Updated On. The 'Roleuser' row is highlighted, and its 'Status' dropdown menu is open, showing 'Inactive' and 'Active' options. The 'Active' option is selected. The table also shows other users like 'ReportViewer' and 'syncadmin'. At the bottom, there is a 'Delete' button and pagination information: 'Page 1 of 1' and 'View 1 - 3 of 3'.

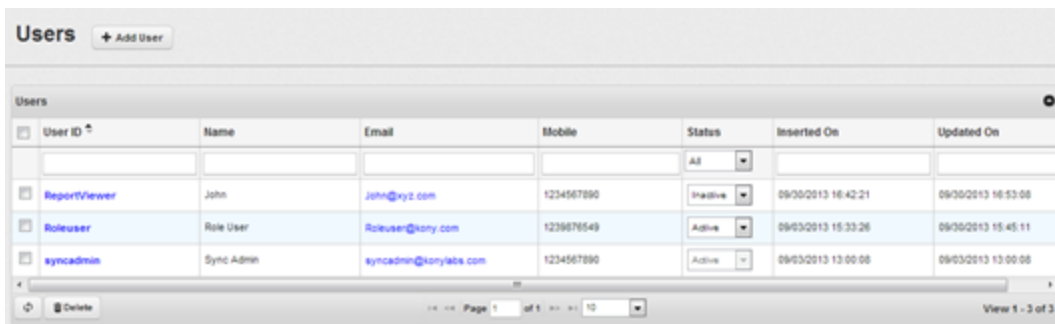
User ID	Name	Email	Mobile	Status	Inserted On	Updated On
				All		
ReportViewer	John	John@xyz.com	1234567890	Inactive	09/00/2013 16:42:21	09/00/2013 16:53:08
Roleuser	Role User	Roleuser@kony.com	1239876549	Active	09/03/2013 15:33:26	09/00/2013 15:45:11
syncadmin	Sync Admin	syncadmin@konylabs.com	1234567890	Active	09/03/2013 13:00:08	09/03/2013 13:00:08

6.1.7 Assigning a User to a Group

Assigning a user to a Group feature enables you to assign a User ID to a Group. You can assign single or multiple groups at a single instance.

To assign a user to a Group, follow these steps:

1. Go to the **Users** tab in **User Management** section. The list of users appears.



The screenshot shows the 'Users' management interface. At the top, there is a '+ Add User' button. Below this is a table with columns: User ID, Name, Email, Mobile, Status, Inserted On, and Updated On. The 'Roleuser' row is highlighted. The 'Status' dropdown menu is open, showing 'Inactive' and 'Active' options. The 'Active' option is selected. The table also shows other users like 'ReportViewer' and 'syncadmin'. At the bottom, there is a 'Delete' button and pagination information: 'Page 1 of 1' and 'View 1 - 3 of 3'.

User ID	Name	Email	Mobile	Status	Inserted On	Updated On
				All		
ReportViewer	John	John@xyz.com	1234567890	Inactive	09/00/2013 16:42:21	09/00/2013 16:53:08
Roleuser	Role User	Roleuser@kony.com	1239876549	Active	09/03/2013 15:33:26	09/00/2013 15:45:11
syncadmin	Sync Admin	syncadmin@konylabs.com	1234567890	Active	09/03/2013 13:00:08	09/03/2013 13:00:08

- Click the User ID of the required User to assign. The **Edit User** dialog appears.

Edit User + Change Password

User Details

User ID: ReportViewer

User Name*: John

Email*: John@xyz.com

Mobile: 1234567890

Enterprise User ID: 1523

* Fields are mandatory

Assign Group

Available Groups: Role_User, Administrator

Attached Groups:

Assign Device

Available Devices: 0000000000000000, 358980050189070, 358401043137015

Attached Devices:

- From the list of **Available Groups**, select the required group and click the right arrow. The selected Group moves to **Attached Groups** section.

User Details

User ID: ReportViewer

User Name*: John

Email*: John@xyz.com

Mobile: 1234567890

Enterprise User ID: 1523

* Fields are mandatory

Assign Group

Available Groups: Role_User

Attached Groups: Administrator

Assign Device

Available Devices: 0000000000000000, 358980050189070, 358401043137015

Attached Devices:

Save Cancel

- Click **Save**. The User ID is assigned to the selected user Group and you can view the user under the Group Name of the users list.

Edit User [+ Change Password](#)

User updated successfully.

User Details

User ID: ReportViewer
 User Name*: John
 Email*: John@xyz.com
 Mobile: 1234567890
 Enterprise User ID: 1523

* Fields are mandatory

Assign Group

Available Groups: Role_User
 Attached Groups: Administrator

6.1.8 Unassigning a User from a Group

You can unassign a User ID from a Group at a single instance. To unassign a user, follow these steps:

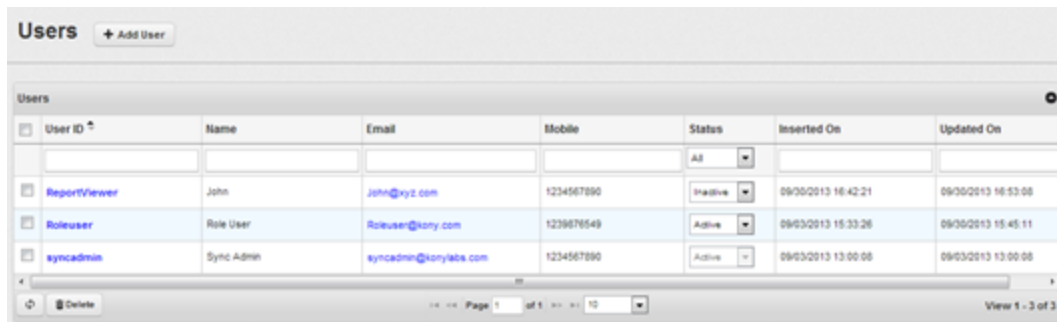
1. Go to the **Users** tab under **User Management** section.

Users [+ Add User](#)

User ID	Name	Email	Mobile	Status	Inserted On	Updated On
ReportViewer	John	John@xyz.com	1234567890	Inactive	09/30/2013 16:42:21	09/30/2013 16:53:08
Roleuser	Role User	Roleuser@kony.com	1239876549	Active	09/30/2013 15:33:26	09/30/2013 15:45:11
syncadmin	Sync Admin	syncadmin@konylabs.com	1234567890	Active	09/30/2013 13:00:08	09/30/2013 13:00:08

Page 1 of 1 | View 1 - 3 of 3

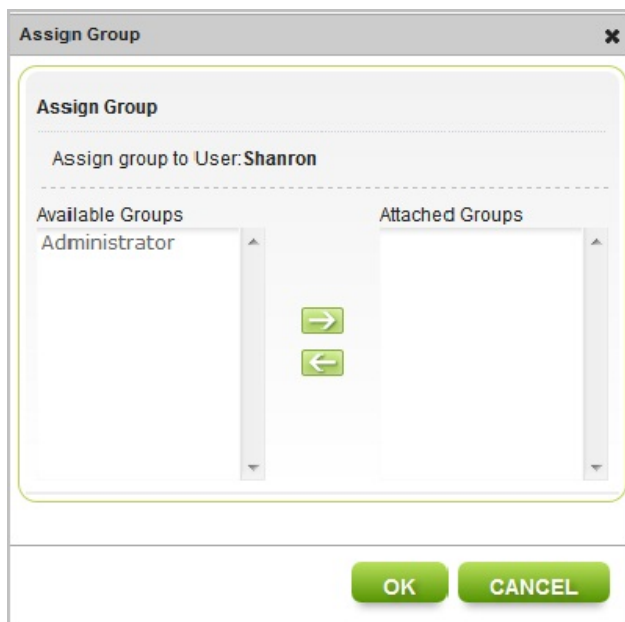
2. Click **Group Name** of the corresponding **User ID** to unassign. The below **Assign Group** dialog appears.



The screenshot shows a web interface for managing users. At the top, there is a header "Users" with a "+ Add User" button. Below the header is a table with the following columns: User ID, Name, Email, Mobile, Status, Inserted On, and Updated On. The table contains three rows of user data. At the bottom of the table, there is a "Delete" button and a pagination control showing "Page 1 of 1" and "View 1 - 3 of 3".

User ID	Name	Email	Mobile	Status	Inserted On	Updated On
ReportViewer	John	John@xyz.com	1234567890	Inactive	09/09/2013 16:42:21	09/09/2013 16:53:08
Roleuser	Role User	Roleuser@kony.com	1239876549	Active	09/03/2013 15:33:26	09/09/2013 15:45:11
syncadmin	Sync Admin	syncadmin@konylabs.com	1234567890	Active	09/03/2013 13:00:08	09/03/2013 13:00:08

- From the **Attached Groups** section, select the Group Name to undo the assignment and click green back arrow. The selected Group is removed from the **Attached Groups** section.



The screenshot shows a dialog box titled "Assign Group" with a close button (X) in the top right corner. The dialog contains the following elements:

- A title "Assign Group".
- A text field "Assign group to User: Shanron".
- Two list boxes: "Available Groups" and "Attached Groups".
- The "Available Groups" list box contains the item "Administrator".
- Two green arrows: a right-pointing arrow (→) and a left-pointing arrow (←).
- At the bottom, there are two green buttons: "OK" and "CANCEL".

- Click **OK**. As the selected User ID is unassigned from the Group, the pre-assigned Group Name disappears for the corresponding unassigned user. If no groups are assigned, the **Assign Group** link appears under the Group Name for the corresponding User ID.

6.1.9 Assigning a Device to a user

You can assign devices to the created / existing users.

To assign a device, follow these steps:

- Click **User** tab under **User Management** section.

<input type="checkbox"/>	User ID	Name	Email	Mobile	Status	Inserted On
<input type="checkbox"/>					All	
<input type="checkbox"/>	anonymous	anonymous			Active	04/13/2016 13:22:36.0 +0530
<input type="checkbox"/>	bvtuser@kony.com	First Admin	bvtuser@kony.com		Active	04/13/2016 11:08:08.0 +0530
<input type="checkbox"/>	mobilefabricadmin	MobileFabric Administrator	mobilefabricadmin@kony.com	1234567890	Active	04/13/2016 09:11:29.0 +0530
<input type="checkbox"/>	syncadmin	Sync Admin	syncadmin@kony.com	1234567890	Active	04/13/2016 09:11:27.0 +0530

2. Click the User ID of a user from the list displayed. The Edit User dialog appears.

Edit User + Change Password

User Details

User ID: syncadmin

User Name*: Sync Admin

Email: syncadmin@kony.com

Mobile : 1234567890

Enterprise User ID:

* Fields are mandatory

Assign Group

Available Groups

Attached Groups

Administrator


Assign Device

Available Devices

359703054551649

Attached Devices

Save Cancel

3. From the available devices, select a device and click  to attach the device to the selected user.
4. The selected device will be attached to the user.

6.1.10 Removing Assigned Device of a User

You can unassign a device to a user as required.

To unassign a device to a user, follow these steps:

1. Go to the **User** tab under **User Management** section.

<input type="checkbox"/>	User ID ↕	Name	Email	Mobile	Status	Inserted On
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	All ▾	<input type="text"/>
<input type="checkbox"/>	anonymous	anonymous			Active ▾	04/13/2016 13:22:36.0 +0530
<input type="checkbox"/>	bvtuser@kony.com	First Admin	bvtuser@kony.com		Active ▾	04/13/2016 11:08:08.0 +0530
<input type="checkbox"/>	mobilefabricadmin	MobileFabric Administrator	mobilefabricadmin@kony.com	1234567890	Active ▾	04/13/2016 09:11:29.0 +0530
<input type="checkbox"/>	syncadmin	Sync Admin	syncadmin@kony.com	1234567890	Active ▾	04/13/2016 09:11:27.0 +0530

2. Click the User ID for a desired user. The **Edit User** dialog appears.

User Details

User ID:	syncadmin
User Name*:	<input type="text" value="Sync Admin"/>
Email:	<input type="text" value="syncadmin@kony.com"/>
Mobile :	<input type="text" value="1234567890"/>
Enterprise User ID:	<input type="text"/>

* Fields are mandatory

Assign Group

Available Groups	<input type="button" value=">"/>	Attached Groups
<input type="text"/>	<input type="button" value="<"/>	<input type="text" value="Administrator"/>

Assign Device

Available Devices	<input type="button" value=">"/>	Attached Devices
<input type="text"/>	<input type="button" value="<"/>	<input type="text" value="359703054551649"/>

3. From the **Attached Devices** section, select the device to undo the assignment and then click the arrow. The selected device is removed.

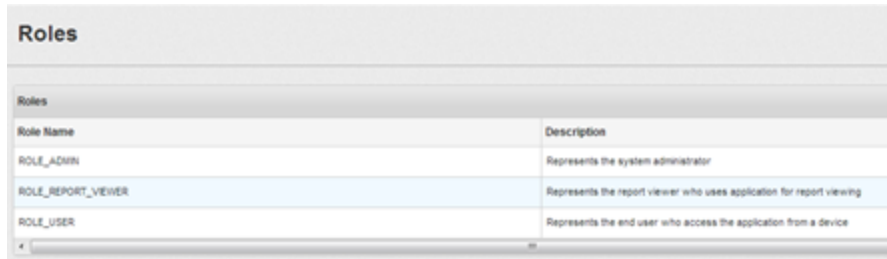
6.2 Role

The Roles feature enables you to view the description of the existing User ID roles in the Kony Fabric Sync Console.

6.2.1 Viewing the Role

To view the Roles, follow these steps:

1. Go to the **Roles** tab in the **User Management** section.



Roles	
Role Name	Description
ROLE_ADMIN	Represents the system administrator
ROLE_REPORT_VIEWER	Represents the report viewer who uses application for report viewing
ROLE_USER	Represents the end user who access the application from a device

6.3 Group

Groups view enables you to view the list of Groups that a device and a user are assigned to and manage group. You can also create a Group and assign users and devices to that Group. The UI also provides you with an option to edit and delete a Group. If the number of Groups is more than 10, you can use the **Next** or **Previous** to move to the corresponding list of Groups. You can perform the following tasks:

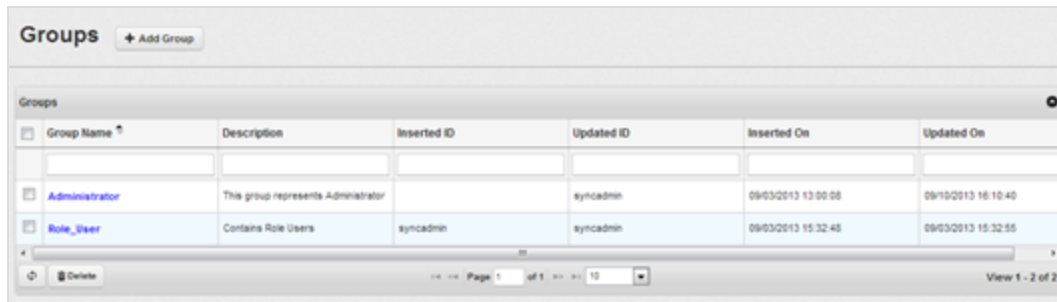
- [Creating a Group](#)
- [Editing a Group](#)
- [Deleting a Group](#)
- [Assigning a Role to a group](#)
- [Assigning an Application to a group](#)

6.3.1 Creating a Group

Creating a Group feature enables you to create a Group. You can enter name of the Group and its details in the respective fields while creating a Group.

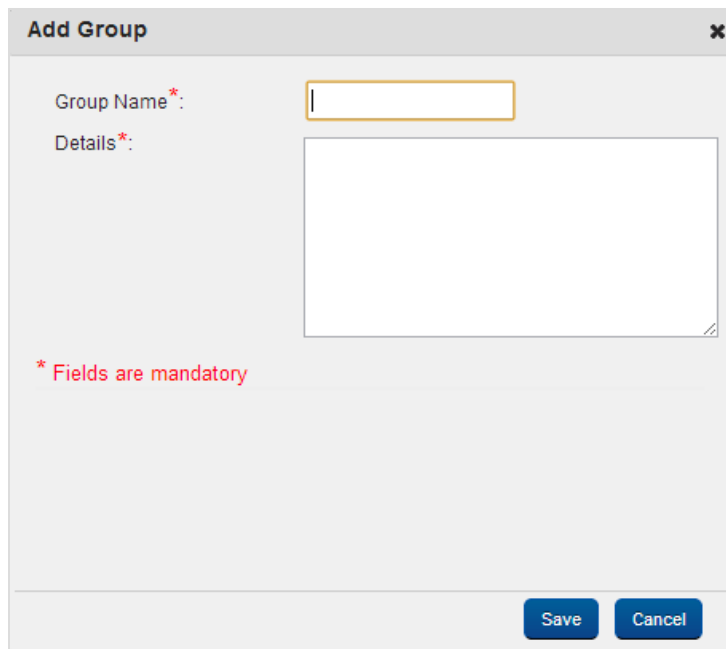
To create a Group, follow these steps:

1. Go to **Groups** tab under **User Management** section.



<input type="checkbox"/>	Group Name *	Description	Inserted ID	Updated ID	Inserted On	Updated On
<input type="checkbox"/>	Administrator	This group represents Administrator		syncadmin	09/03/2013 13:00:05	09/10/2013 16:10:40
<input type="checkbox"/>	Role_User	Contains Role Users	syncadmin	syncadmin	09/03/2013 15:32:45	09/03/2013 15:32:55

2. Click **Add**. The **Add Group** dialog appears.
 - a. Enter name of the group in **Group Name**.
 - b. Enter details of the group in **Details**.



Add Group [X]

Group Name*:

Details*:

* Fields are mandatory

Save Cancel

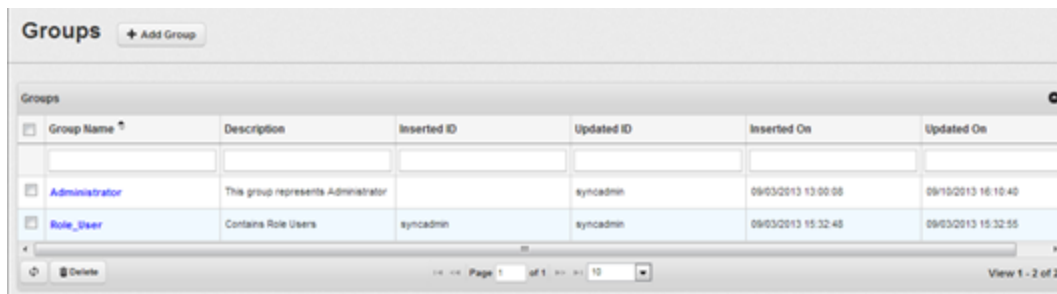
3. Click **Save**. A confirmation message, "Group <groupname> added successfully" appears. The created group name appears in Groups view.

6.3.2 Editing a Group

Editing a group feature enables you to edit the group name and its details.

To edit a group, follow these steps:

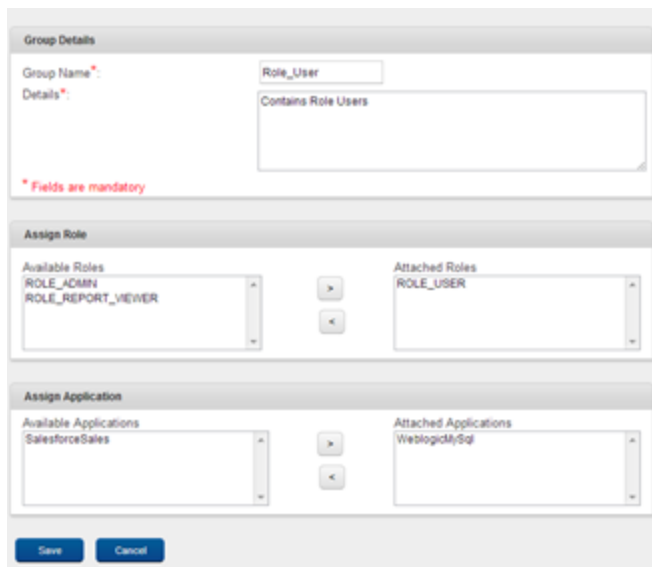
1. Go to the **Groups** tab in **User Management** section.



The screenshot shows the 'Groups' management interface. At the top, there is a '+ Add Group' button. Below it is a table with the following columns: Group Name, Description, Inserted ID, Updated ID, Inserted On, and Updated On. Two groups are listed: 'Administrator' and 'Role_User'. The 'Role_User' group is selected. At the bottom, there is a 'Delete' button and a pagination control showing 'Page 1 of 1' and 'View 1 - 2 of 2'.

Group Name	Description	Inserted ID	Updated ID	Inserted On	Updated On
Administrator	This group represents Administrator		syncadmin	09/03/2013 13:00:08	09/10/2013 16:10:40
Role_User	Contains Role Users	syncadmin	syncadmin	09/03/2013 15:32:48	09/03/2013 15:32:55

2. Click **Group Name** to edit. The **Edit Group** dialog appears.



The 'Edit Group' dialog box is shown. It has a 'Group Name' field with the value 'Role_User' and a 'Details' field with the value 'Contains Role Users'. Below these fields is a red asterisk indicating that fields are mandatory. The dialog also has sections for 'Assign Role' and 'Assign Application'. The 'Assign Role' section shows 'Available Roles' (ROLE_ADMIN, ROLE_REPORT_VIEWER) and 'Attached Roles' (ROLE_USER). The 'Assign Application' section shows 'Available Applications' (SalesforceSales) and 'Attached Applications' (WeblogicMySql). At the bottom, there are 'Save' and 'Cancel' buttons.

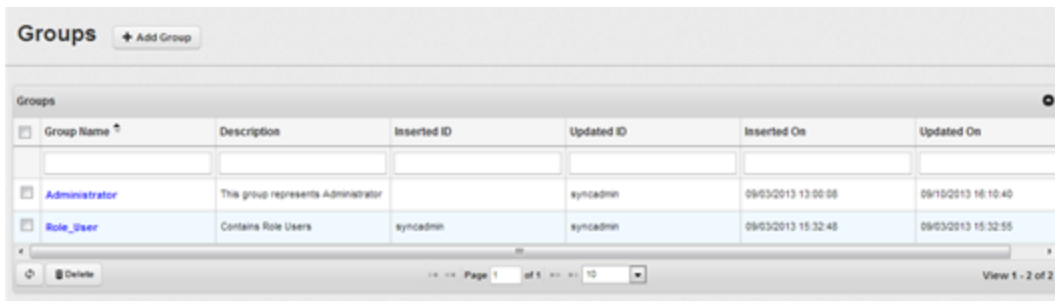
3. Edit the details and click **Save**. After successful update, a confirmation message, “Group edited successfully” appears.

6.3.3 Deleting a Group

Deleting a group feature allows you to delete a group that is already available in the list of groups. If a group that is assigned to a user is deleted, the user automatically gets unassigned from the deleted group. You can either delete a single group or multiple groups as required.

To delete a Group, follow these steps:

1. Navigate to the **Groups** tab under the **User Management** section.



Group Name	Description	Inserted ID	Updated ID	Inserted On	Updated On
Administrator	This group represents Administrator		syncadmin	09/03/2013 13:00:08	09/10/2013 16:10:40
Role_User	Contains Role Users	syncadmin	syncadmin	09/03/2013 15:32:48	09/03/2013 15:32:55

2. Select a group name, and then click **Delete**.

A delete confirmation message, “Are you sure you want to delete selected Groups?” appears.

3. Click **Yes**.

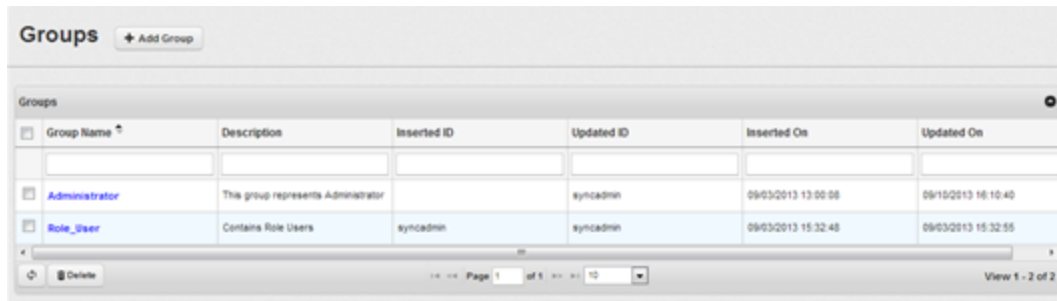
The selected group is deleted.

6.3.4 Assigning a Role to a Group

Assigning a role to a group feature enables you to assign a role or multiple roles to a group.

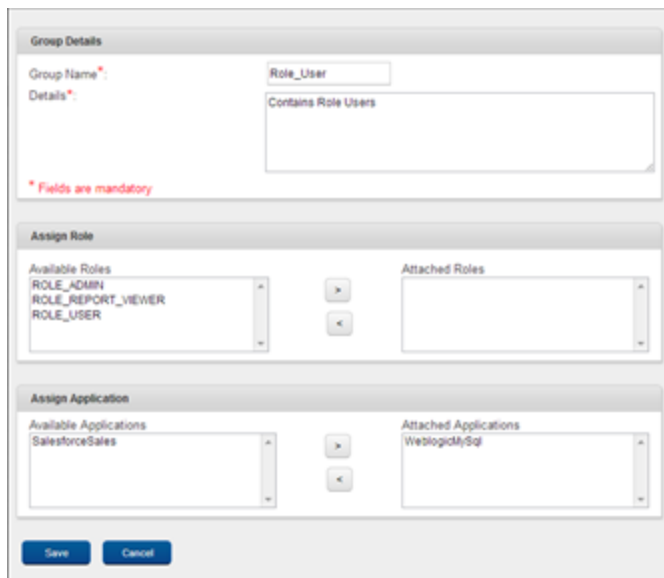
To assign a role to a group, follow these steps:

1. Go to the **Groups** tab under **User Management** section.



Group Name	Description	Inserted ID	Updated ID	Inserted On	Updated On
Administrator	This group represents Administrator		syncadmin	09/03/2013 13:00:08	09/19/2013 16:10:40
Role_User	Contains Role Users	syncadmin	syncadmin	09/03/2013 15:32:48	09/03/2013 15:32:55

2. Click **Group name** of the corresponding Group. The **Edit Group** page appears.



Group Details

Group Name*: Role_User

Details*: Contains Role Users

* Fields are mandatory

Assign Role

Available Roles: ROLE_ADMIN, ROLE_REPORT_VIEWER, ROLE_USER

Attached Roles:

Assign Application

Available Applications: SalesforceSales

Attached Applications: WeblogicMySql

Save Cancel

3. Select a Role from the **Available Roles** and click the green forward arrow. The selected role appears under **Attached Roles**.

Group Details

Group Name*: Role_User

Details*: Contains Role Users

* Fields are mandatory

Assign Role

Available Roles: ROLE_ADMIN, ROLE_REPORT_VIEWER

Attached Roles: ROLE_USER

Assign Application

Available Applications: SalesforceSales

Attached Applications: WeblogixMySig

Save Cancel

4. Click **Save**.

The Group is assigned to the selected Role.

6.3.5 Assigning an Application to a Group

Assigning an application to a group feature enables you to assign a single or multiple applications to a Group.

To assign an application to a group, follow these steps:

1. Go to the **Groups** tab in **User Management** section.

Group Name	Description	Inserted ID	Updated ID	Inserted On	Updated On
Administrator	This group represents Administrator	syncadmin	syncadmin	09/03/2013 13:00:08	09/10/2013 16:10:40
Role_User	Contains Role Users	syncadmin	syncadmin	09/03/2013 15:32:48	09/03/2013 15:32:55

Page 1 of 1 | View 1 - 2 of 2

2. Click group name of the corresponding group. The **Edit Group** page appears.

Edit Group

Group Details

Group Name*:

Details*:

* Fields are mandatory

Assign Role

Available Roles

- ROLE_REPORT_VIEWER
- ROLE_USER

Attached Roles

- ROLE_ADMIN

Assign Application

Available Applications

- 100000002c1014703
- 100000012bd8ef8f9
- 17b69b36-042d-4263-b981-50230717947f
- 1ca3a7ff-5fdf-43ec-b28c-499266941f4d
- 587ca0fe-b1a0-4275-8910-7f62f90cdb1f

Attached Applications

3. Select the desired application from the list of Available Applications and then click the forward arrow.

The selected application appears under **Attached Applications**.

4. Click **Save**.

You can view the group to which the application is assigned under **Name** section on the Groups list.

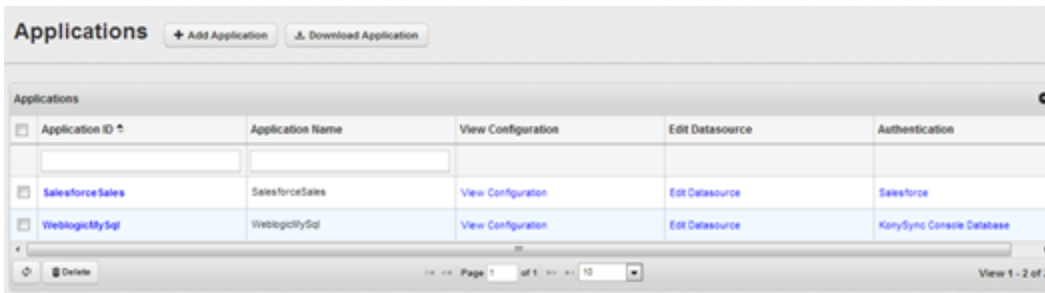
6.4 Authentication

Authentication view enables you to create authentication profiles. Authentication profiles are assigned to applications. All device users of an application are authenticated with the assigned profile. After creating a profile, the Test Connection option validates the profile before assigning it to applications.

- [Default Authentication Mode](#)
- [Creating an Authentication Profile](#)
- [Viewing errors of Authentication Profiles](#)

6.4.1 Default Authentication Mode - Kony Sync Console Database

The default authentication mode is Kony Sync Console Database. Once an application is uploaded, the authentication mode is set to Kony Sync Database.



Application ID	Application Name	View Configuration	Edit Datasource	Authentication
SalesforceSales	SalesforceSales	View Configuration	Edit Datasource	Salesforce
WeblogicMySql	WeblogicMySql	View Configuration	Edit Datasource	KonySync Console Database

6.4.2 Creating an Authentication Profile

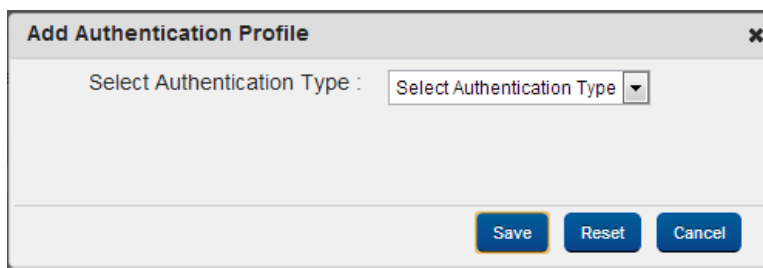
To create an authentication profile other than Kony Sync Database, follow these steps:

1. Click the **User Management** section > **Authentication** tab.



<input type="checkbox"/>	Name	Type	Inserted ID	Updated ID	Inserted On	Updated On
<input type="checkbox"/>	Salesforce	Salesforce	syncadmin	syncadmin	09/04/2013 11:44:33	09/04/2013 11:44:33

2. Click **Add Authentication**. The **Add Authentication Profile** dialog appears.

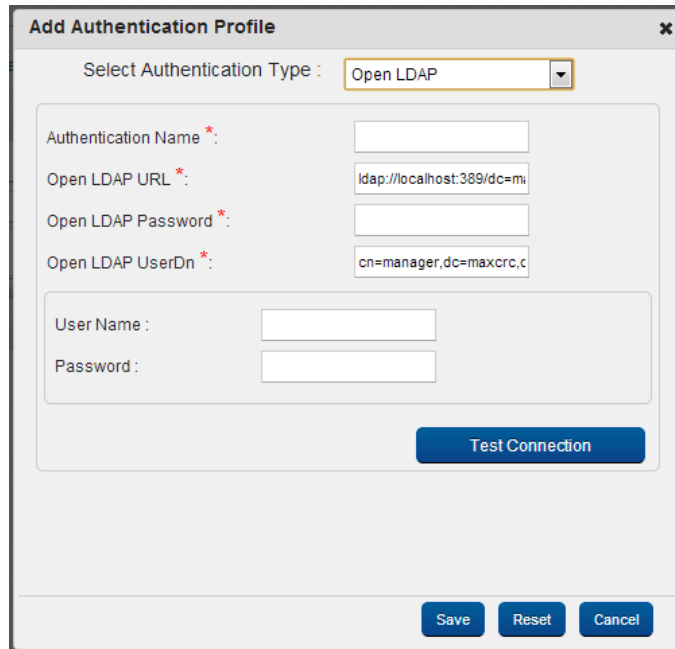


Add Authentication Profile ✕

Select Authentication Type :

3. You may create any one of the below types of authentication profiles:

- Select *Open LDAP* from the drop-down to create an open LDAP authentication type.
 - i. Enter LDAP details and click **Test Connection** to verify the connectivity of LDAP.



The screenshot shows a dialog box titled "Add Authentication Profile" with a close button (X) in the top right corner. At the top, there is a label "Select Authentication Type:" followed by a dropdown menu currently set to "Open LDAP". Below this, there are four input fields with asterisks indicating they are required: "Authentication Name", "Open LDAP URL" (containing "ldap://localhost:389/dc=m"), "Open LDAP Password", and "Open LDAP UserDn" (containing "cn=manager,dc=maxcra,c"). Below these fields is a section for "User Name" and "Password", each with its own input field. A blue "Test Connection" button is positioned below the "User Name" and "Password" fields. At the bottom of the dialog, there are three buttons: "Save", "Reset", and "Cancel".

- Select *Microsoft ADS* from the drop-down to create a Microsoft ADS authentication type.
 - i. Enter Microsoft ADS details and click **Test Connection** to verify the connectivity of Microsoft ADS.

Add Authentication Profile ✕

Select Authentication Type : Microsoft ADS ▾

Authentication Name * :

ADS URL * :

ADS Domain * :

ADS UserDn * :

ADS Password * :

ADS Referral * :

User Name :

Password :

Test Connection

Save Reset Cancel

- Select *SalesForce* from the drop-down to create a SalesForce authentication type.
 - i. Enter SalesForce details and click **Test Connection** to verify the connectivity of SalesForce.

Add Authentication Profile ✕

Select Authentication Type :

Authentication Name * :

SalesForce URL * :

SalesForce Namespace * :

User Name :

Password :

- Select *Custom* from the drop-down to create a Custom authentication type.
 - i. Enter Custom details and click **Save**.

Add Authentication Profile ✕

Select Authentication Type :

Authentication Name * :

Custom Class * :

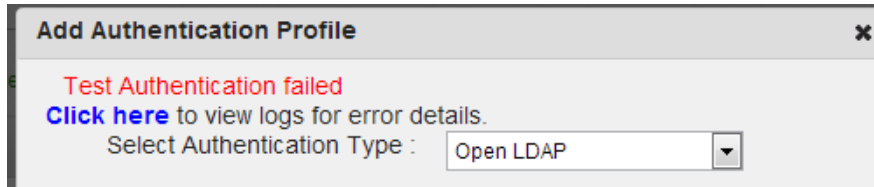
Please provide the Fully Qualified Name of the Java Class (for e.g. com.kony.sync.CustomAuthenticationManager). Ensure that this class (and its dependencies) are packaged as JAR file and placed in /opt/Oracle/Middleware/user_projects/domains/base_domain/lib folder on each Server Instance where SyncServices have been deployed.

6.4.3 Viewing Errors of Authentication Profiles

To view the errors while adding authentication profiles, follow these steps:

1. Click the **User Management** section > **Authentication** tab.
2. In the **Add Authentication Profile** dialog, click **Click here to view logs** hyperlink to view the errors.

- Click **Add Authentication**. The **Add Authentication Profile** dialog appears.



- The Tracker view appears with the logged errors.

```

at com.sun.jndi.ldap.Connection.<init>(Connection.java:210)
at com.sun.jndi.ldap.LdapClient.<init>(LdapClient.java:118)
at com.sun.jndi.ldap.LdapClient.getInstance(LdapClient.java:1580)
at com.sun.jndi.ldap.LdapCtx.connect(LdapCtx.java:2652)
at com.sun.jndi.ldap.LdapCtx.<init>(LdapCtx.java:293)
at com.sun.jndi.ldap.LdapCtxFactory.getUsingURL(LdapCtxFactory.java:175)
at com.sun.jndi.ldap.LdapCtxFactory.getUsingURLs(LdapCtxFactory.java:193)
at com.sun.jndi.ldap.LdapCtxFactory.getLdapCtxInstance(LdapCtxFactory.java:136)
at com.sun.jndi.ldap.LdapCtxFactory.getInitialContext(LdapCtxFactory.java:66)
at javax.naming.spi.NamingManager.getInitialContext(NamingManager.java:667)
at javax.naming.InitialContext.getDefaultInitCtx(InitialContext.java:288)
at javax.naming.InitialContext.init(InitialContext.java:223)
at javax.naming.ldap.InitialLdapContext.<init>(InitialLdapContext.java:134)
at org.springframework.ldap.core.support.LdapContextSource.getDirContextInstance(LdapContextSource.java:43)
at org.springframework.ldap.core.support.AbstractContextSource.createContext(AbstractContextSource.java:254)
... 70 more
Caused by: java.net.ConnectException: Connection refused
at java.net.PlainSocketImpl.socketConnect(Native Method)
at java.net.PlainSocketImpl.doConnect(PlainSocketImpl.java:351)
at java.net.PlainSocketImpl.connectToAddress(PlainSocketImpl.java:213)
at java.net.PlainSocketImpl.connect(PlainSocketImpl.java:200)
at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:366)
at java.net.Socket.connect(Socket.java:529)
at java.net.Socket.connect(Socket.java:478)
at java.net.Socket.<init>(Socket.java:375)
at java.net.Socket.<init>(Socket.java:189)
at com.sun.jndi.ldap.Connection.createSocket(Connection.java:352)
at com.sun.jndi.ldap.Connection.<init>(Connection.java:187)
... 84 more


```

7. Devices

Devices user interface enables you to view the list of devices that are in sync with Enterprise Data Source server. The number of devices to view is 10, by default. You may change the number of devices to view by selecting from the drop-down corresponding to **Page**.

7.1 Device Auto Registration

When you perform a sync operation from the handset for the first time, the device is auto registered into the console application after the authentication succeeds.



The screenshot shows a web interface titled "Devices" with a table listing registered devices. The table has columns for Device ID, Users, Device OS, Device Model, Device OS Version, Status, Registration Time, and Updated On. There are three rows of data, each with a delete icon to its left. Below the table is a pagination control showing "Page 1 of 1" and "View 1 - 3 of 3".

Device ID	Users	Device OS	Device Model	Device OS Version	Status	Registration Time	Updated On
0000000000000000	syncadmin, Roleuser	android	google_sdk	2.0	Active	09/03/2013 14:45:28	09/10/2013 17:06:19
358980050169070	syncadmin	android	GT-N0000	4.1.2	Active	09/03/2013 14:51:44	09/03/2013 15:45:50
358401943137915	Roleuser	android	GT-B1000	2.3.6	Active	09/04/2013 12:51:10	09/04/2013 12:57:30

You can perform the following tasks:

- [Searching a Device](#)
- [Deleting a Device](#)
- [Enabling a Device](#)
- [Disabling a Device](#)

7.2 Searching a Device

The search option enables you to search a Device ID, or all the devices that are assigned to the selected User ID. There are three types for searching:

- a. **Searching using only the *Device ID*:** This search criteria results in displaying the corresponding Device ID and all other Device IDs that are similar.
- b. **Searching using only the *User ID*:** This search criteria results in displaying all the Device IDs that are assigned to the corresponding User ID.
- c. **Searching using both *Device ID* and *User ID*:** This search criteria results in displaying all the Device IDs that are assigned to the corresponding user ID.

To search a device, follow these steps:

1. Click **Devices** from the Kony Fabric Sync Console. The Devices view appears.

Device ID	Users	Device OS	Device Model	Device OS Version	Status	Registration Time	Updated On
0000000000000000	syncadmin, Roleuser	android	google_sdk	2.8	Active	09/03/2013 14:45:28	09/10/2013 17:06:19
356888650169070	syncadmin	android	GT-N8000	4.1.2	Active	09/03/2013 14:51:44	09/03/2013 15:45:50
356801843137915	Roleuser	android	GT-S1000	2.3.6	Active	09/04/2013 12:51:10	09/04/2013 12:57:30

2. Enter the device id in **Device ID**.
3. Enter the user id in **User ID**.
4. Select the registration date in **Reg. Date**. You can select the date if you know the range of dates.
5. Select the status from the **Status** drop-down menu.
6. Select the device operating system from the **Device OS** drop-down menu.

Note: The **Device ID** or **User ID** fields are mandatory. You can enter either Device ID or User ID as required.

Devices

Device ID	Users	Device OS	Device Model	Device OS Version	Status	Registration Time	Updated On
000000000000000	syncadmin	android	GT-I9100G	2.3.6	Active	12/01/2015 11:27:48.400+0530	12/04/2015 13:18+0530
352900053433913	anonymous	android	LT26i	4.0.4	Active	11/20/2015 12:18:43.180+0530	11/20/2015 16:50+0530
359703054551649	anonymous	android	GT-I9500	4.4.2	Active	11/19/2015 17:26:15.853+0530	11/27/2015 11:15+0530
359703054589599	anonymous	android	GT-I9500	5.0.1	Active	11/24/2015 12:48:48.383+0530	11/24/2015 14:05+0530

- Click **Search** by entering the Device ID, for example, starting with 35. The device with the entered Device ID appears.

Device ID	Users	Device OS	Device Model	Device OS Version	Status	Registration Time	Updated On
35					All		
356980050169070	syncadmin	android	GT-N8000	4.1.2	Active	09/03/2013 14:51:44	09/03/2013 15:45:50
358401043137015	Roleuser	android	GT-I9100G	2.3.6	Active	09/04/2013 12:51:10	09/04/2013 12:57:30

Note: The search results displays all Device IDs that start with Device ID as entered in the search field. For example, If you search for the User ID “admin”, the search results display admin1, admin2, admin3, admin4 as per the ascending order alphanumerically.

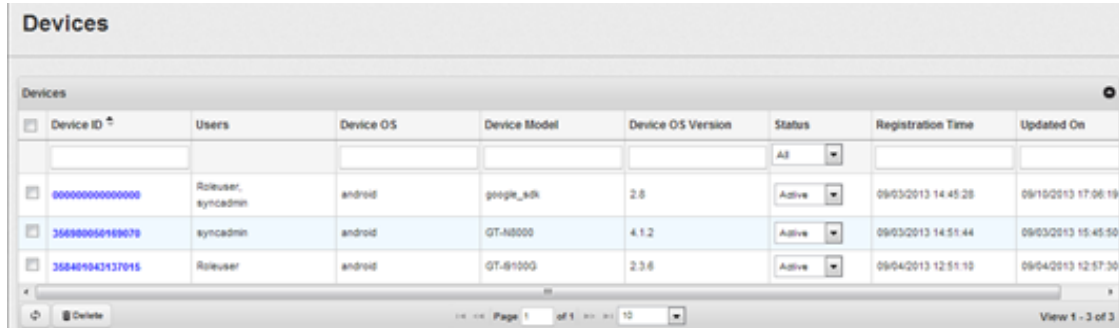
7.3 Deleting a Device

Deleting a device feature enables you to delete a single device or multiple devices at an instance as required. From the list of records, you can navigate to the required **User ID** or **Device ID** record by using **Previous** or **Next** options or by using a specific **Search** criteria based on **Device ID**, **User ID**, **Reg. Date**, **Status** and **Device OS**. The search results displays all the records based on User ID or Device ID that match the search criteria.

To delete a device, follow these steps :

1. Click **Devices** in Kony Fabric Sync Console.

The **Devices** view appears.



Device ID	Users	Device OS	Device Model	Device OS Version	Status	Registration Time	Updated On
0000000000000000	Roleuser, syncadmin	android	google_sdk	2.0	Active	09/03/2013 14:45:28	09/10/2013 17:06:19
356980050169078	syncadmin	android	GT-N8000	4.1.2	Active	09/03/2013 14:51:44	09/03/2013 15:45:50
35840943137915	Roleuser	android	GT-B0000	2.3.6	Active	09/04/2013 12:51:10	09/04/2013 12:57:30

2. Select a required **Device ID** and click **Delete**.

A dialog box with a confirmation message, “Are you sure you want to delete selected devices?” appears.

3. Click **Yes**.

The selected Device ID is deleted.

7.4 Enabling a Device

Enabling a device feature allows you to gain access to Kony Fabric Sync Console. You can either enable a single device or multiple devices at an instance as required. From the list of records, you can navigate to required **User ID** or **Device ID** record by using **Previous** or **Next** or by using a specific search criteria based on **Device ID**, **User ID**, **Reg. Date**, **Status** and **Device OS**. The search results displays all the records based on User ID or Device ID that match the search criteria.

To enable a device, follow these steps :

1. Click **Devices** in Kony Fabric Sync Console.

The **Devices** view appears.

Device ID	Users	Device OS	Device Model	Device OS Version	Status	Registration Time	Updated On
6000000000000000	Roleuser, syncadmin	android	google_sdk	2.8	Active	09/03/2013 14:45:28	09/10/2013 17:06:19
356980058189079	syncadmin	android	GT-N8000	4.1.2	Active	09/03/2013 14:51:44	09/03/2013 15:45:50
358481043137016	Roleuser	android	GT-S100G	2.3.6	Active	09/04/2013 12:51:10	09/04/2013 12:57:30

2. Select the required **Device ID** and change the device from **Inactive** to **Active** from the **Status** drop-down.

A confirmation dialog box with a confirmation message, “Are you sure you want to enable selected devices?” appears.

3. Click **Yes**.

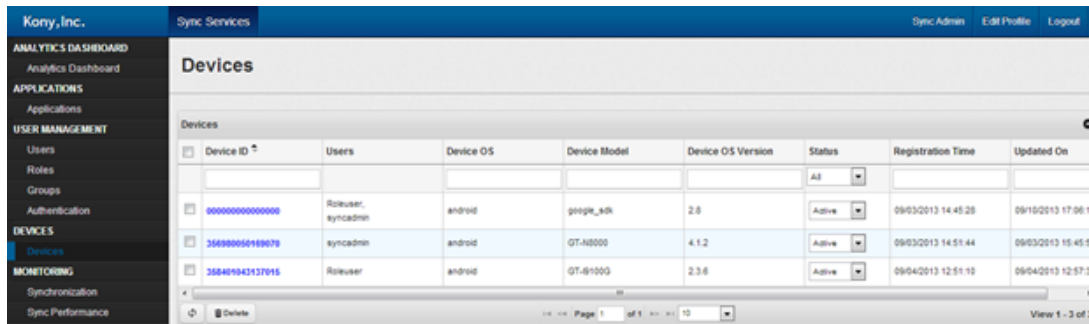
The status of the selected device is updated as **Active**.

7.5 Disabling a Device

Disabling a device feature disables it from gaining access to Kony Fabric Sync Console. You can either delete a single device or multiple devices at an instance as required. From the list of records, you can navigate to required **User ID** or **Device ID** record by using **Previous** or **Next** options or by using a specific Search criteria based on **Device ID**, **User ID**, **Reg. Date**, **Status**, and **Device OS**. The search results displays all the records based on User ID or Device ID that match the search criteria.

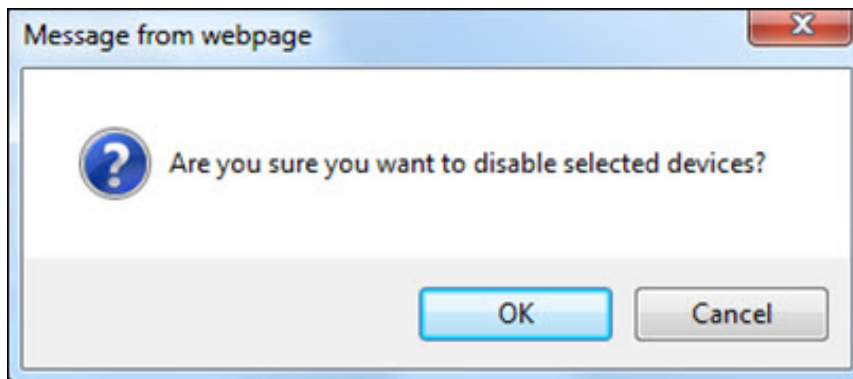
To disable a device, follow these steps :

1. Click **Devices** in KonyFabric Sync Console. The **Devices** view appears.



Device ID	Users	Device OS	Device Model	Device OS Version	Status	Registration Time	Updated On
0000000000000000	Roleuser, syncadmin	android	google_sdk	2.8	Active	09/03/2013 14:45:28	09/10/2013 17:06:19
256980606180678	syncadmin	android	GT-A8000	4.1.2	Active	09/03/2013 14:51:44	09/03/2013 15:45:50
358409243127615	Roleuser	android	GT-B1000	2.3.6	Active	09/04/2013 12:51:10	09/04/2013 12:57:30

2. Select a **Device ID**, and then click **Disable**. A dialog box with a confirmation message, “Are you sure you want to disable selected devices?” appears:



3. Click **OK**. The status of the selected Device ID appears as **Disabled**.

8. Monitoring

Monitoring feature enables you to keep track of overall changes that occur at the Client and Enterprise Data Source server. In Monitoring, you can perform the following tasks:

- [Synchronization](#)
- [Synchronization Performance](#)
- [Merging Service](#)
- [Replica Service](#)
- [Upload Queue](#)
- [Persistent Databases](#)
- [Conflicts](#)
- [Change Replay](#)
- [Sync Errors](#)
- [Security Audit](#)

8.1 Viewing Synchronization

Synchronization is the process of synchronizing information between client and Enterprise Data Source. This interface enables you to view all the detailed records of the synchronization.

View Synchronization feature enables you to view the synchronization details between client and Enterprise Data Source. If the records list is big, you can navigate to the required synchronization record of a User ID by using **Previous** or **Next** options, or by using the **Search** option. The search results display all User IDs which start with the User ID as entered in the search field.

For example: If the User ID “admin” is searched, the search results display admin1, admin2, admin3 and admin4 as per the ascending order alphanumerically.

To view Synchronization, follow these steps:

1. On Kony Fabric Sync Console, go to **Monitoring** section > **Synchronization** view. The list of Synchronizations appear under the search fields.

Synchronization								
User ID	Device ID	Application ID	Start Time	End Time	Request Type	Number of Rows	Sync Server IP	Error Details
005900000...	23644b8adc...	17b69b36-0... 4263-b981-5...	02/22/2016 17:32:00.523 +0530	02/22/2016 17:32:00.9... +0530	DOWNLOAD	1	127.0.0.1	No Error
005900000...	23644b8adc...	17b69b36-0... 4263-b981-5...	02/22/2016 17:31:41.67 +0530	02/22/2016 17:31:42.8... +0530	DOWNLOAD	0	127.0.0.1	No Error
005900000...	23644b8adc...	17b69b36-0... 4263-b981-5...	02/22/2016 17:27:31.913 +0530	02/22/2016 17:27:32.9... +0530	DOWNLOAD	0	127.0.0.1	No Error

8.2 Synchronization Performance

Synchronization Performance view displays the average usage of a particular service. For example, If a user uses a service at three instances with the duration of one, two, and three minutes, the average usage time would be $(one + two + three) / 3 = 2$.

8.2.1 Viewing the Synchronization Performance

Viewing the synchronization performance feature enables you to view the average usage of a particular service for each User ID. If the list is big, you can navigate to the required User ID record using **Previous** or **Next** options, or use the **Search** option. The search results display all User IDs that start with the User ID as entered in the search field.

For example: If the User ID “admin” is searched, the search results display admin1, admin2, admin3, and admin4 as per the ascending order alphanumerically.

To view Synchronization Performance, follow these steps:

1. On Kony Fabric Sync Console, go to **Monitoring** section > **Synchronization Performance** view. The list of Synchronization Performances appears under the search fields.

Sync Performance							
User ID	Device ID	Application ID	Request Type	Avg. Time (seconds)	Max Time (seconds)	Avg. Number of Rows	Max Number of Rows
0059000000...	23644b8adcac0...	17b69b36-042d-4263-b981-502...	UPLOAD	7	12	2	3
0059000000...	23644b8adcac0...	17b69b36-042d-4263-b981-502...	DOWNLOAD	1	7	325	1629

8.3 Merging Service

Merge Service consists of all the information between Upload Queue and Enterprise Data Source. You can monitor the merge status (Started, Processing Request, and Completed Request) per User and Application.

8.3.1 Viewing Merge Service

From the list of records, you can navigate to the required **Application ID** record by using **Previous** or **Next** or by using a specific **Search** criteria based on **Start Date**, **Start Time**, **End Date**, **End Time**, **Current Status** and **Application**. The search results displays all Application ID records for each User ID that matches the search criteria.

To view **Merge Service**, follow these steps:

1. On Kony Fabric Sync Console, go to **Monitoring** section > **Merge Service** view. The list of Merge Services appear under the search fields.

Merge Service								
Request ID	User ID	Application ID	Start Time	End Time	Status	Number of Rows	Sync Server IP	Error Details
3	anonymous	100000002132...	03/22/2016 17:05:20.497 +0530	03/22/2016 17:05:20.737 +0530	MERGED	1	10.10.25.138	No Error
2	anonymous	100000002132...	03/22/2016 17:05:00.120 +0530	03/22/2016 17:05:00.153 +0530	MERGED	1	10.10.25.138	No Error
1	anonymous	100000002132...	03/22/2016 17:02:10.107 +0530	03/22/2016 17:02:10.297 +0530	MERGED	1	10.10.25.138	No Error

8.4 Replica Service

Replica service feature tracks all the changes in Enterprise Data Source that are to be sent to the Client. It exists between the Enterprise Data Source and the client.

8.4.1 Viewing Replica of an Application

From the list of records, you can navigate to the required **Application ID** record by using **Previous** or **Next** options or by using a specific **Search** criteria based on **Start Date**, **Start Time**, **End Date**, **End Time**, **Current Status** and **Application**. All the Application ID records that match the search criteria appear.

To view the replica of an application, follow the below step:

1. On Kony Fabric Sync Console, go to **Monitoring** section > **Replica Service view** tab. The list of Replica Services appears under the search fields.

Replica Service						
Application ID	Replication Start Time	Replication End Time	Status	Number of Rows	Sync Server IP	Error Details
1000000021326f072	03/22/2016 17:05:30.73 +0530	03/22/2016 17:05:30.93 +0530	COMPLETED	1	10.10.25.138	No Error
1000000021326f072	03/22/2016 17:05:10.103 +0530	03/22/2016 17:05:10.150 +0530	COMPLETED	1	10.10.25.138	No Error
1000000021326f072	03/22/2016 17:02:20.120 +0530	03/22/2016 17:02:20.147 +0530	COMPLETED	1	10.10.25.138	No Error
1000000021326f072	03/22/2016 16:20:50.667 +0530	03/22/2016 16:20:51.870 +0530	COMPLETED	155	10.10.25.138	No Error

8.5 Upload Queue

The Upload Queue is a queue that comprises of all the information from the client waiting to get updated at Enterprise Data Source server. You can add, delete or modify the information at the client side. It exists between the client and Enterprise Data Source.

8.5.1 Viewing the Upload Queue

From the list of records, you can navigate to the required **Device ID** record by using **Previous** or **Next** options or by using a specific Search criterion based on **Start Date**, **Start Time**, **End Date**, **End Time** and **Application**. The search results display all Device IDs that start with the ID as entered in the search field.

To view the Upload queue, follow the below step:

1. On Kony Fabric Sync Console, go to **Monitoring** tab > **Upload Queue** view. The list of upload queues appears under the search fields.

Upload Queue

Request ID	User ID	Device ID	Application ID	Start Time	End Time	Number of Rows	Error Details
15	SampleUser	35690005189070	MsSql	09/04/2013 17:13:08	09/04/2013 17:13:11	1	No Error
14	roleuser	35690005189070	MsSql	09/04/2013 17:11:31	09/04/2013 17:11:39	1	No Error
13	roleuser	0000000000000000	MsSql	09/04/2013 17:09:54	09/04/2013 17:10:05	1	No Error
12	syncadmin	0000000000000000	MsSql	09/04/2013 16:58:53	09/04/2013 16:59:12	1	No Error
11	syncadmin	0000000000000000	MsSql	09/04/2013 16:58:48	09/04/2013 16:57:00	1	No Error
10	syncadmin	0000000000000000	MsSql	09/04/2013 16:55:11	09/04/2013 16:56:01	1	No Error
9	syncadmin	0000000000000000	MsSql	09/04/2013 16:53:52	09/04/2013 16:54:02	1	No Error
8	syncadmin	0000000000000000	MsSql	09/04/2013 16:51:52	09/04/2013 16:51:54	1	No Error
7	syncadmin	0000000000000000	MsSql	09/04/2013 16:50:20	09/04/2013 16:50:30	1	No Error
6	syncadmin	0000000000000000	MsSql	09/04/2013 16:48:00	09/04/2013 16:48:20	1	No Error

Page 1 of 2 View 1 - 10 of 20

8.6 Persistent Databases

Persistent Databases feature states the status (Success/failure) of the number of records merged/uploaded/downloaded. The **DB Name** lists the name (Replica/upload Queue database) of the database, **Status** lists the Success/failure status of the records, **Number of Tables** lists the number of tables, **Total Number of Rows** represent the number of rows that are uploaded/downloaded. Persistent Databases feature is applicable only for persistent configuration.

8.7 Conflicts

The Conflicts view enables you to view the differences that occur due to inappropriate synchronization of the records between Client and Enterprise Data Source.

8.7.1 Viewing Conflicts of a User and Device

From the list of records, you can navigate to the required User ID conflict record by using **Previous** or **Next** options or by using a specific **Search** criteria based on **Start Date**, **Start Time**, **End Date**, **End Time**, and **Application ID**. The search results displays all User IDs that start with the ID as entered in the search field.

For example: If you search for the User ID “admin”, the search results display admin1, admin2, admin3, and admin4 as per the ascending order alphanumerically.

To view Conflicts, follow these steps:

1. On Kony Fabric Sync Console, go to **Monitoring** tab > **Conflicts** view. The list of upload queues appears under the search fields.

User ID	Device ID	Application ID	Conflict Resolution Policy	Client Row	Server Row	Merged Row	Conflict Time	Error Details
syncadmin	0000000000000000	MaSql	SERVER_WINS	View Details	View Details	View Details	09/04/2013 16:59:12	No Error
syncadmin	0000000000000000	MaSql	SERVER_WINS	View Details	View Details	View Details	09/04/2013 16:57:00	No Error
syncadmin	0000000000000000	MaSql	SERVER_WINS	View Details	View Details	View Details	09/04/2013 16:56:01	No Error
syncadmin	0000000000000000	MaSql	SERVER_WINS	View Details	View Details	View Details	09/04/2013 16:54:01	No Error
syncadmin	0000000000000000	MaSql	SERVER_WINS	View Details	View Details	View Details	09/04/2013 16:51:54	No Error
syncadmin	0000000000000000	MaSql	SERVER_WINS	View Details	View Details	View Details	09/04/2013 16:50:30	No Error
syncadmin	0000000000000000	MaSql	SERVER_WINS	View Details	View Details	View Details	09/04/2013 16:42:19	No Error
syncadmin	0000000000000000	MaSql	SERVER_WINS	View Details	View Details	View Details	09/04/2013 16:39:21	No Error
syncadmin	0000000000000000	PeralTSSql	CLIENT_WINS	View Details	View Details	View Details	07/23/2013 18:07:30	No Error
syncadmin	0000000000000000	PeralTSSql	CLIENT_WINS	View Details	View Details	View Details	07/23/2013 18:04:00	No Error

8.8 Change Replay

Change Replay feature of Kony Sync Console enables you to view the actions that the client performs that are updated at Enterprise Data Source based on Device ID.

8.8.1 Viewing the Change Replay Process

From the list of records, you can navigate to required action by using **Previous** or **Next** options or by using a specific Search criteria such as **User ID**, **Device ID**, **Application**, **Sync Object** and **Change Type**. The search results displays all User IDs or Device IDs that start with the ID that you enter in the search field.

For example: If you search for the User ID “admin”, the admin1, admin2, admin3, and admin4 search results appear as per the ascending order alphanumerically.

To view the change replay process, follow the below step:

1. On Kony Fabric Sync Console, go to **Monitoring** tab > **Synchronization** view. The list of change replays appears under the search fields.

Change Replay — Clear ChangeReplay Logs ⊙ Show Only Errors

Request ID	User ID	Device ID	Application ID	Target	Type	Request	Response	Start Time	End Time	Elapsed Time(sec)	Error
15	SampleUser	0000000016907 0	WtSgl	Categories	Insert	View Details	View Details	09/04/2013 17:13:11	09/04/2013 17:13:11	0	No Err
14	rtUser	0000000016907 0	WtSgl	Categories	Insert	View Details	View Details	09/04/2013 17:11:39	09/04/2013 17:11:39	0	No Err
13	rtUser	0000000000000 0	WtSgl	Categories	Insert	View Details	View Details	09/04/2013 17:10:05	09/04/2013 17:10:05	0	No Err
12	syncadmin	0000000000000 0	WtSgl	Categories	Update	View Details	View Details	09/04/2013 16:59:12	09/04/2013 16:59:12	0	No Err
11	syncadmin	0000000000000 0	WtSgl	Categories	Update	View Details	View Details	09/04/2013 16:57:00	09/04/2013 16:57:00	0	No Err
10	syncadmin	0000000000000 0	WtSgl	Categories	Update	View Details	View Details	09/04/2013 16:56:01	09/04/2013 16:56:01	0	No Err
9	syncadmin	0000000000000 0	WtSgl	Categories	Update	View Details	View Details	09/04/2013 16:54:01	09/04/2013 16:54:01	0	No Err

2. Click **Clear ChangeReplay Logs** to clear the logs.
3. Click **Show All Logs** to show all the logs.

8.9 Sync Errors

Sync Errors feature lists down all the errors that occur while you perform any sync operation (download/upload/replica merge service), Error Details list downs the details of the error. You can search by column using the User ID, Application ID, Sync Operation, Date Time and Sync Server IP.

Sync Errors

User ID	Application ID	Sync Operation	Date Time	Sync Server IP	Error Details
Not Applicable	1000000286db1a86	REPLICASERVICE	02/15/2016 11:56:47.0 +0530	10.10.25.227	View Error Details
Not Applicable	1000000286db1a86	REPLICASERVICE	02/15/2016 11:52:37.0 +0530	10.10.25.227	View Error Details
Not Applicable	1000000286db1a86	REPLICASERVICE	02/15/2016 11:51:47.0 +0530	10.10.25.227	View Error Details
Not Applicable	1000000286db1a86	REPLICASERVICE	02/15/2016 11:42:37.0 +0530	10.10.25.227	View Error Details
Not Applicable	1000000286db1a86	REPLICASERVICE	02/15/2016 11:41:47.0 +0530	10.10.25.227	View Error Details

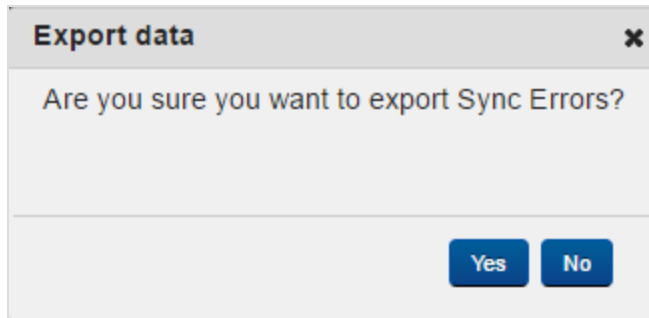
8.9.1 Export to Excel

You can export the sync errors from the Console database to an Excel file format. To export the sync errors, follow these steps:

1. Click the **Export to Excel** button to export the log data to Excel.

User ID	Application ID	Sync Operation	Date Time	Sync Server IP	Error Details
anonymous	3b3a3a0d-5418-4e3a-b1c8-db6c1f6fa031	DOWNLOAD	07/01/2016 11:55:31.0 +0530	10.10.24.81	View Error Details
anonymous	3b3a3a0d-5418-4e3a-b1c8-db6c1f6fa031	DOWNLOAD	07/01/2016 11:55:11.0 +0530	10.10.24.81	View Error Details
anonymous	3b3a3a0d-5418-4e3a-b1c8-db6c1f6fa031	DOWNLOAD	07/01/2016 11:54:51.0 +0530	10.10.24.81	View Error Details
anonymous	3b3a3a0d-5418-4e3a-b1c8-db6c1f6fa031	DOWNLOAD	07/01/2016 11:54:30.0 +0530	10.10.24.81	View Error Details

- The following pop-up window is displayed.



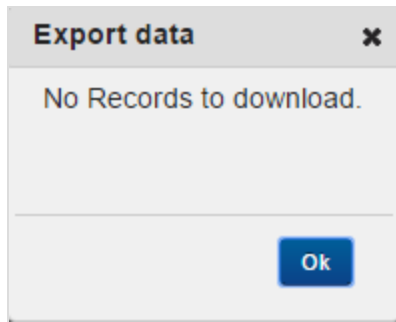
- Click the **Yes** button to export the logs to Excel. Otherwise, click **No**.
- Click the **Yes** button. The **Sync Errors** Excel file is downloaded to your system. The following table describes the outcome of the data exported.

User ID	Application ID	Sync Operation	Date Time	Sync Server IP	Error Details
anonymous	3b3a3a0d-5418-4e3a-b1c8-db6c1f6fa031	DOWNLOAD	01/07/2016 11:59:18:000+0530	10.10.24.81	View Error Details
anonymous	3b3a3a0d-5418-4e3a-b1c8-db6c1f6fa031	DOWNLOAD	01/07/2016 11:58:57:000+0530	10.10.24.81	View Error Details
anonymous	3b3a3a0d-5418-4e3a-b1c8-db6c1f6fa031	DOWNLOAD	01/07/2016 11:55:31:000+0530	10.10.24.81	View Error Details
anonymous	3b3a3a0d-5418-4e3a-b1c8-db6c1f6fa031	DOWNLOAD	01/07/2016 11:55:11:000+0530	10.10.24.81	View Error Details
anonymous	3b3a3a0d-5418-4e3a-b1c8-db6c1f6fa031	DOWNLOAD	01/07/2016 11:54:51:000+0530	10.10.24.81	View Error Details
anonymous	3b3a3a0d-5418-4e3a-b1c8-db6c1f6fa031	DOWNLOAD	01/07/2016 11:54:30:000+0530	10.10.24.81	View Error Details

- Click the hyperlink displayed against each field in the **Error Details** to view the complete description of the selected error message.

1	com.kony.sync.services.entityframework.query.DataAdapterException: Client application version 4ddd1ef982cafd1ca016b5eab47aaa96b134aa'
2	com.kony.sync.services.entityframework.query.DataAdapterException: Client application version 4ddd1ef982cafd1ca016b5eab47aaa96b134aa'
3	com.kony.sync.services.entityframework.query.DataAdapterException: Client application version a23975001fd0897993635cdbb4ff868184037e9
4	com.kony.sync.services.entityframework.query.DataAdapterException: Client application version a23975001fd0897993635cdbb4ff868184037e9
5	com.kony.sync.services.entityframework.query.DataAdapterException: Client application version a23975001fd0897993635cdbb4ff868184037e9
6	com.kony.sync.services.entityframework.query.DataAdapterException: Client application version a23975001fd0897993635cdbb4ff868184037e9
7	com.kony.sync.services.entityframework.query.DataAdapterException: Client application version a23975001fd0897993635cdbb4ff868184037e9

- If the export operation fails because of an error, the console displays a message explaining the cause of the error.
- If you do not have any logs to export, the console displays a message as there are no records to export.



8.10 Security Audit

Security Audit user feature enables you to view all the changes that the client makes and that are updated at Enterprise Data Source server.

8.10.1 Viewing Modifications

From the list of records, you can move to the required record using **Previous** or **Next**.

To view modifications, follow below step:

1. On Kony Fabric Sync Console, go to **Monitoring** tab > **Security Audit** view. The list of Security Audit appears under the search fields.

Security Audit			
<input type="text"/> <input type="text"/>		Page 1 of 5 10	
Who Changed	What Changed	When	Comments
anonymous	UPDATED_DEVICE(9FE1795B-4FF9-4B24-81E4-AAC2B08C323E)	02/16/2016 18:40:23.0 +0530	Updated the device
anonymous	UPDATED_DEVICE(9FE1795B-4FF9-4B24-81E4-AAC2B08C323E)	02/16/2016 18:39:36.0 +0530	Updated the device
anonymous	UPDATED_DEVICE(9FE1795B-4FF9-4B24-81E4-AAC2B08C323E)	02/16/2016 18:38:15.0 +0530	Updated the device

9. Scheduled Jobs

Scheduled Jobs view enables you to view the list of jobs that run at specific intervals and Job History. The number of scheduled jobs to view is 10, by default. You may change the number of scheduled jobs to view by selecting from the drop-down corresponding to **Page**.

The Scheduled Jobs view enables you to review the CRON jobs that are scheduled in the system. You have flexibility to edit CRON expression. You can modify to any interval; once a week, once a month, and as on. You can have a format of adding specified interval.

For example:

0 0 12 * * ? Fire at 12 pm (noon) every day

0 15 10 ? * * Fire at 10:15 am every day

0 15 10 * * ? Fire at 10:15 am every day

For more information on **Triger Details**, refer to **Cron Expressions** section in <http://www.quartz-scheduler.org/documentation/quartz-1.x/tutorials/TutorialLesson06> and http://www.quartz-scheduler.org/generated/2.2.2/html/qtz-all#page/quartz-scheduler-webhelp/co-trg_crontriggers.html%23.

9.1 View the Scheduled Jobs

The Scheduled Jobs feature enables you to view another list of Scheduled jobs.

To view the scheduled jobs, follow the below step:

1. On Kony Fabric Sync Console, click the **Scheduled Jobs** tab. The Scheduled Jobs view appears with details such as **Job Name**, **Application ID**, **Description**, **Status**, **Job Class**,

Next Fire Time, Previous Fire Time, Trigger, Trigger Details, and Server IP.

Scheduled Jobs									
Job Name	Application ID	Description	Status	Job Class	Previous Fire Time	Next Fire Time	Trigger	Trigger Details	Sync Server IP
MergeSer...	SampleDB	Merge service job	COMPLE...	com.kony...	02/22/2016 16:32:00.0 +0530	02/22/2016 16:32:20.0 +0530	cron	0/10 * * * * ? *	10.10.25.231
ReplicaS...	SampleDB	Replica service job	COMPLE...	com.kony...	02/22/2016 16:32:00.0 +0530	02/22/2016 16:32:20.0 +0530	cron	0/10 * * * * ? *	10.10.25.231

9.2 View the Job History

View the Job History feature enables you to view the job history of various services.

To view the Job History, follow the below step:

1. On Kony Fabric Sync Console home page, click **Scheduled Jobs** section > **Job History** tab. The **Job history** view appears.

Job History

Job Name	Application ID	Status	Sync Server IP	Start Time	End Time	Elapsed Time (sec)	DataSource Elapsed Time (sec)	Error Details
MergeService	SampleDB	COMPLETED	10.10.25.231	02/22/2016 16:37:20.50 +0530	02/22/2016 16:37:20.3... +0530	0.337	0	No Error
ReplicaServ...	SampleDB	RUNNING	10.10.25.231	02/22/2016 16:37:20.17 +0530		0	0	No Error
MergeService	SampleDB	COMPLETED	10.10.25.231	02/22/2016 16:37:10.43 +0530	02/22/2016 16:37:10.2... +0530	0.177	0	No Error

10. Logs

Logs section enables you to view data sync between the devices of the client and the Enterprise Datasource server.

10.1 Trace Log

Note: The **Trace Log Level** is *OFF* initially when you install Kony Sync Server. On the Trace Logs page, click the [click here](#) link to navigate to the **Configuration** tab. You may select *ON* from the **Trace Log Level** drop-down to turn on the trace logs.

Trace Log feature enables you to view request and response data between the clients and Enterprise Datasource Server for a particular Application, User, Device and Time combination.

Trace Logs

← Clear Trace Logs
⊕ Show Only Errors

Trace logging is currently turned off. To turn it on please [click here](#)

User ID	Device ID	Application ID	Request Type	Start Time	End Time	Elapsed Time (sec)	Data Source Elapsed Time (sec)	Http Request	Http Response	Request Size (Bytes)
No records to show										

You may click **Clear Trace Logs** to clear the trace logs, and may click **Show Only Errors** to show only error logs.

10.1.1 Export to Excel

You can export the logs from the Console database to an Excel file format. To export the logs, follow these steps:

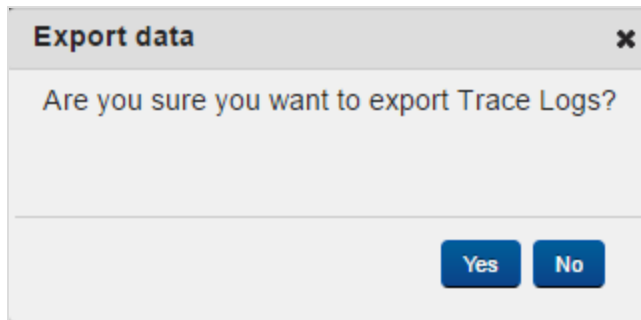
1. Click the **Export to Excel** button to export the log data to Excel.

Trace Logs Clear Trace Logs Show Only Errors

Page 1 of 381

User ID	Application ID	Request Type	Start Time	End Time	Elapsed Time (sec)	Data Source Elapsed Time (sec)	Http Request	Http Response	Request Size (Bytes)	Response Size (Bytes)
tester	359703054589599	download	06/29/2016 12:33:13.0 +0530	06/29/2016 12:33:14.0 +0530	0.61	0	View Http Request	View Http Response	937	6008
tester	Unknown	registerde...	06/29/2016 12:31:43.0 +0530	06/29/2016 12:31:44.0 +0530	0.294	0	View Http Request	View Http Response	738	6008
tester	Unknown	registerde...	06/29/2016 12:29:29.0 +0530	06/29/2016 12:29:29.0 +0530	0.248	0	View Http Request	View Http Response	738	6008
tester	Unknown	registerde...	06/29/2016 12:29:07.0 +0530	06/29/2016 12:29:08.0 +0530	0.122	0	View Http Request	View Http Response	738	6006

2. The following pop-up window is displayed.



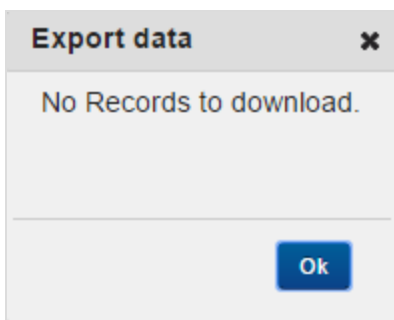
3. Click **Yes** to export the logs to Excel. Otherwise, click **No**.
4. Click on **Yes** button. The **Trace Logs** Excel file is downloaded to your system. The following table describes the outcome of the data exported.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	User ID	Device ID	Applicatio	RequestType	Start Time	End Time	Elapsed Ti	Datasourc	Http Requ	Http Resp	Request S	Response	Response Code	
2	syncadm	00000000C	100000002	download	29/06/201	29/06/201	4.117	4.066	View Http	View Http	362	3003	200 (with Error)	
+	5	syncadm	00000000C	100000002	registerdevic	29/06/201	29/06/201	0.085	0	View Http	View Http	166	422	200
+	6	syncadm	00000000C	100000002	download	29/06/201	29/06/201	4.098	4.0440000	View Http	View Http	361	3003	200 (with Error)
+	9	syncadm	00000000C	100000002	registerdevic	29/06/201	29/06/201	0.085	0	View Http	View Http	165	422	200
+	10	syncadm	00000000C	100000002	download	29/06/201	29/06/201	4.1770000	4.117	View Http	View Http	361	3003	200 (with Error)
+	13	syncadm	00000000C	100000002	registerdevic	29/06/201	29/06/201	0.081	0	View Http	View Http	165	422	200
+	14	syncadm	00000000C	100000002	download	29/06/201	29/06/201	4.0760000	4.025	View Http	View Http	361	3003	200 (with Error)
+	17	syncadm	00000000C	100000002	registerdevic	29/06/201	29/06/201	0.084	0	View Http	View Http	165	422	200
+	18	syncadm	00000000C	100000002	download	29/06/201	29/06/201	4.123	4.0760000	View Http	View Http	361	3003	200 (with Error)
+	21	syncadm	00000000C	100000002	download	29/06/201	29/06/201	4.168	4.106	View Http	View Http	361	3003	200 (with Error)
+	24													

- Click on the hyperlink displayed against each field in the **Http Request**, **Http Response**, **DS Http Request**, **DS Http Response** and **Error Message** columns to view the complete details of the selected field.
- Click on the plus symbol on the right of each log displayed for additional details.

1	User ID	Device ID	Applicatio	RequestType	Start Time	End Time	Elapsed Ti	Datasourc	Http Requ	Http Resp	Request S	Response	Response Code
2	syncadm	00000000C	100000002	download	29/06/201	29/06/201	4.117	4.066	View Http	View Http	362	3003	200 (with Error)
3		Sync Obj	Sync Oper	Target	Status	Start Time	End Time	Elapsed Ti	Request	Response	Error Message		
4		Country	getUpdate	http://10.10.	FAILED	29/06/201	29/06/201	4.066	Http Requ	Http Resp	Error Details		
5	syncadm	00000000C	100000002	registerdevic	29/06/201	29/06/201	0.085	0	View Http	View Http	166	422	200

- If the export operation fails because of an error, the console displays a message explaining the cause of the error.
- If you do not have any logs to export, console displays a message as there are no records to export.

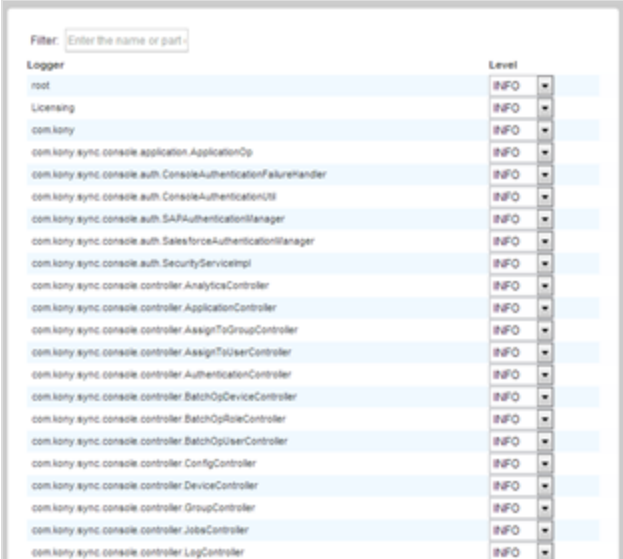


10.2 Kony Fabric Sync Services Log

Kony Fabric Sync Services log feature enables you to view various levels of the Kony Fabric Sync Server Services and Kony Fabric Sync Console log data like DEBUG, INFO and ERROR on UI.

10.2.1 Configuration

Using Configuration UI, Administrator can configure the level data that is required to monitor the logged data on the Kony Fabric Sync services server.



The screenshot shows a configuration interface with a search filter and a table of loggers. The filter is set to "Enter the name or part". The table lists various loggers and their current log levels, all of which are set to "INFO".

Logger	Level
root	INFO
Licensing	INFO
com.kony	INFO
com.kony.sync.console.application.ApplicationOp	INFO
com.kony.sync.console.auth.ConsoleAuthenticationFailureHandler	INFO
com.kony.sync.console.auth.ConsoleAuthenticationUI	INFO
com.kony.sync.console.auth.SAPAuthenticationManager	INFO
com.kony.sync.console.auth.SalesforceAuthenticationManager	INFO
com.kony.sync.console.auth.SecurityServiceImpl	INFO
com.kony.sync.console.controller.AnalyticaController	INFO
com.kony.sync.console.controller.ApplicationController	INFO
com.kony.sync.console.controller.AssignToGroupController	INFO
com.kony.sync.console.controller.AssignToUserController	INFO
com.kony.sync.console.controller.AuthenticationController	INFO
com.kony.sync.console.controller.BatchOpDeviceController	INFO
com.kony.sync.console.controller.BatchOpRoleController	INFO
com.kony.sync.console.controller.BatchOpUserController	INFO
com.kony.sync.console.controller.ConfigController	INFO
com.kony.sync.console.controller.DeviceController	INFO
com.kony.sync.console.controller.GroupController	INFO
com.kony.sync.console.controller.JobController	INFO
com.kony.sync.console.controller.LogController	INFO

10.2.2 Log

Log feature enables you to download the log file, view the number of lines in the log file that helps in quickly viewing the logs from UI, especially the exceptions and followed by quick resolutions.

```

[org.apache.xerces.parsers.XML11Configuration.parse(Unknown Source)
at org.apache.xerces.parsers.XML11Configuration.parse(Unknown Source)
at org.apache.xerces.parsers.XMLParser.parse(Unknown Source)
at org.apache.xerces.parsers.AbstractSAXParser.parse(Unknown Source)
at org.apache.xerces.jaxp.SAXParserImpl$SAXParser.parse(Unknown Source)
... 9 more

[syncoervice][INFO][30 Sep 2013 18:36:20,972]:[org.quartz.core.JobRunShell:run:228]: Job TheSql2.8 threw a JobExecutionException:
org.quartz.JobExecutionException: javax.xml.bind.UnmarshalException
- with linked exception:
[org.xml.sax.SAXParseException: Premature end of file.] [See nested exception: javax.xml.bind.UnmarshalException
- with linked exception:
[org.xml.sax.SAXParseException: Premature end of file.]]
at com.kony.sync.services.job.MergeServiceJob.execute(MergeServiceJob.java:52)
at org.quartz.core.JobRunShell.run(JobRunShell.java:223)
at org.quartz.simpl.SimpleThreadPool$WorkerThread.run(SimpleThreadPool.java:149)
Caused by: javax.xml.bind.UnmarshalException
- with linked exception:
[org.xml.sax.SAXParseException: Premature end of file.]
at javax.xml.bind.helpers.AbstractUnmarshallerImpl.createUnmarshallerException(Unknown Source)
at com.sun.xml.internal.bind.v2.runtime.unmarshaller.UnmarshallerImpl.createUnmarshallerException(Unknown Source)
at com.sun.xml.internal.bind.v2.runtime.unmarshaller.UnmarshallerImpl.unmarshal(Unknown Source)
at javax.xml.bind.helpers.AbstractUnmarshallerImpl.unmarshal(Unknown Source)
at javax.xml.bind.helpers.AbstractUnmarshallerImpl.unmarshal(Unknown Source)
at com.kony.sync.services.syncruntime.config.SynoContract.getConfig(SynoContract.java:86)
at com.kony.sync.services.syncstrategy.Publications.getSynoConfig(Publications.java:47)
at com.kony.sync.services.job.MergeServiceJob.execute(MergeServiceJob.java:31)
... 2 more
Caused by: org.xml.sax.SAXParseException: Premature end of file.

```

10.3 Kony Fabric Sync Console Log

Using Configuration helps you to configure the level data that is required to monitor the logged data on the Kony Fabric Sync console.

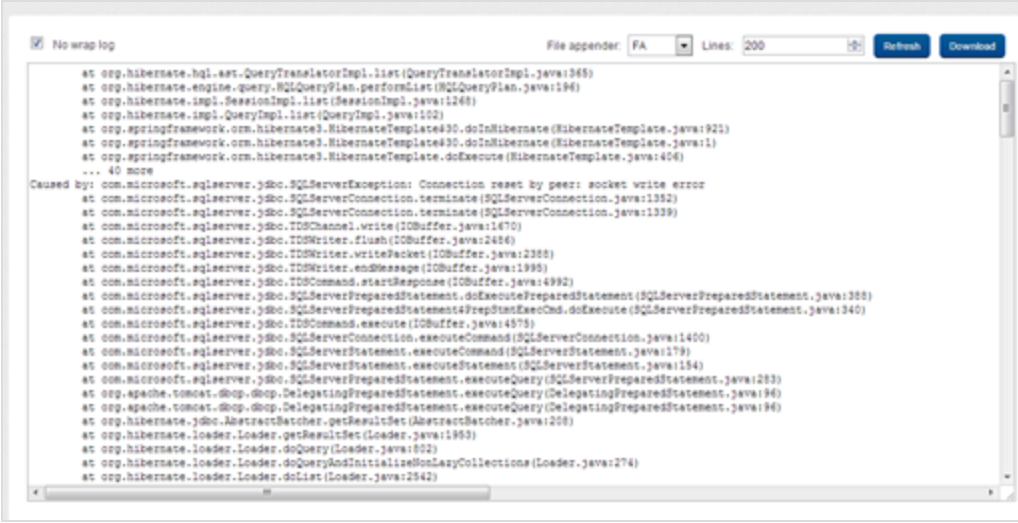
10.3.1 Configuration

Using Configuration feature, an Administrator can configure the level data that is required to monitor the logged data on the Kony Fabric Sync services server.

Logger	Level
root	INFO
Licensing	INFO
com.kony	INFO
com.kony.sync.console.application.ApplicatonOp	INFO
com.kony.sync.console.auth.ConsoleAuthenticationFailureHandler	INFO
com.kony.sync.console.auth.ConsoleAuthenticationUtil	INFO
com.kony.sync.console.auth.SAFAuthenticationManager	INFO
com.kony.sync.console.auth.SalesforceAuthenticationManager	INFO
com.kony.sync.console.auth.SecurityServiceImpl	INFO
com.kony.sync.console.context.ConsoleContextListener	INFO
com.kony.sync.console.controller.AnalyticaController	INFO
com.kony.sync.console.controller.ApplicationController	INFO
com.kony.sync.console.controller.AssignToGroupController	INFO
com.kony.sync.console.controller.AssignToUserController	INFO
com.kony.sync.console.controller.AuthenticationController	INFO
com.kony.sync.console.controller.BatchOpDeviceController	INFO
com.kony.sync.console.controller.BatchOpRoleController	INFO
com.kony.sync.console.controller.BatchOpUserController	INFO
com.kony.sync.console.controller.ConfigController	INFO
com.kony.sync.console.controller.DeviceController	INFO

10.3.2 Log

Log feature enables the Administrator to download the log file, view the number of lines in the log file. This helps in quickly viewing the logs from UI, especially the exceptions followed by quick resolutions.



The screenshot shows a log viewer window with a search bar and a 'Lines' dropdown set to 200. The log content is a stack trace starting with 'Caused by: com.microsoft.sqlserver.jdbc.SQLServerException: Connection reset by peer: socket write error'. The stack trace includes the following classes and methods:

```
at org.hibernate.hql.ast.QueryTranslatorImpl.list(QueryTranslatorImpl.java:365)
at org.hibernate.engine.query.HQLQueryPlan.performList(HQLQueryPlan.java:194)
at org.hibernate.impl.SessionImpl.list(SessionImpl.java:1268)
at org.hibernate.impl.QueryImpl.list(QueryImpl.java:102)
at org.springframework.orm.hibernate3.HibernateTemplate.doInHibernate(HibernateTemplate.java:923)
at org.springframework.orm.hibernate3.HibernateTemplate.doInHibernate(HibernateTemplate.java:1)
at org.springframework.orm.hibernate3.HibernateTemplate.doExecute(HibernateTemplate.java:456)
... 40 more
Caused by: com.microsoft.sqlserver.jdbc.SQLServerException: Connection reset by peer: socket write error
at com.microsoft.sqlserver.jdbc.SQLServerConnection.terminate(SQLServerConnection.java:1352)
at com.microsoft.sqlserver.jdbc.SQLServerConnection.terminate(SQLServerConnection.java:1339)
at com.microsoft.sqlserver.jdbc.TDSChannel.write(TDSChannel.java:1670)
at com.microsoft.sqlserver.jdbc.TDSWriter.flush(TDSWriter.java:2456)
at com.microsoft.sqlserver.jdbc.TDSWriter.writePacket(TDSWriter.java:2355)
at com.microsoft.sqlserver.jdbc.TDSWriter.sendMessage(TDSWriter.java:1995)
at com.microsoft.sqlserver.jdbc.TDSCommand.startResponse(TDSCommand.java:4992)
at com.microsoft.sqlserver.jdbc.SQLServerPreparedStatement.doExecutePreparedStatement(SQLServerPreparedStatement.java:355)
at com.microsoft.sqlserver.jdbc.TDSCommand.execute(TDSCommand.java:4575)
at com.microsoft.sqlserver.jdbc.SQLServerConnection.executeCommand(SQLServerConnection.java:1450)
at com.microsoft.sqlserver.jdbc.SQLServerStatement.executeCommand(SQLServerStatement.java:179)
at com.microsoft.sqlserver.jdbc.SQLServerStatement.executeStatement(SQLServerStatement.java:154)
at com.microsoft.sqlserver.jdbc.SQLServerPreparedStatement.executeQuery(SQLServerPreparedStatement.java:283)
at org.apache.tomcat.dbcp.dbcp.DelegatingPreparedStatement.executeQuery(DelegatingPreparedStatement.java:194)
at org.apache.tomcat.dbcp.dbcp.DelegatingPreparedStatement.executeQuery(DelegatingPreparedStatement.java:194)
at org.hibernate.jdbc.AbstractBatcher.getResultSet(AbstractBatcher.java:208)
at org.hibernate.loader.Loader.getResultSet(Loader.java:1953)
at org.hibernate.loader.Loader.doQuery(Loader.java:852)
at org.hibernate.loader.Loader.doQueryAndInitializeNonLazyCollections(Loader.java:274)
at org.hibernate.loader.Loader.doList(Loader.java:2342)
```

11. Platform as a Service (PaaS)

You can view **Cloud Logs** and **Health Check** tabs on Kony Fabric Sync Console after you procure a valid PaaS license using the Accounts and Billing console.

- [Checking for Kony Fabric Sync Server Side Logs](#)
- [Checking the Health of a Kony Fabric Sync Server](#)

11.1 Checking Kony Fabric Sync Server Side Logs

The Cloud Logs view provided in Kony Fabric Sync Console enables to check for the Kony Fabric Sync Server side logs in PaaS (Cloud) environment. It shows a list of instances with instance id, IP address along with the links to view the Archived and Snapshot Logs. If the number of logs is more than 10, you can use the **Next** or **Previous** to move to more number of logs.

There are two types of cloud logs:

- Archived Logs
- Snapshot Logs

11.1.1 Archived Logs

The log files for the server instance that are archived every hour and stored for seven days. You can view and download these archived log files. If the number of archived log files is more than 10, you can use **Next** or **Previous** to move to more number of archived logs.

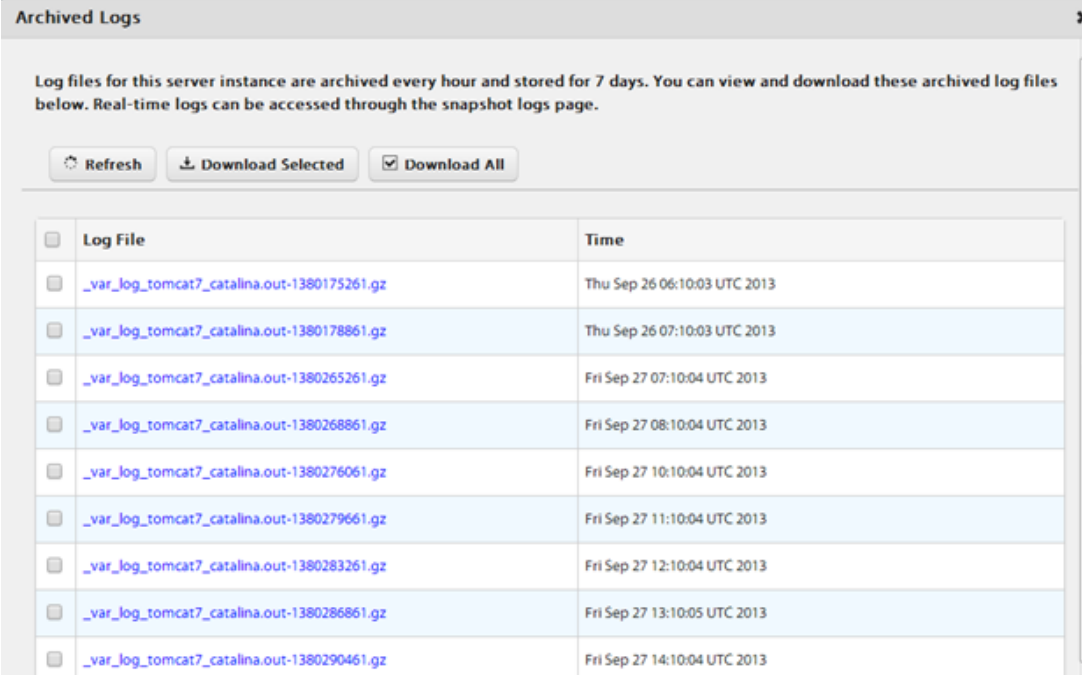
On **Cloud Logs** tab, you can view the list of archived logs and manage them. You can perform the following tasks:

- [Viewing Archived Logs](#)
- [Downloading Selected Logs](#)

- [Downloading All the Logs](#)
- [Refreshing Archived Logs](#)

11.1.1.1 Viewing Archived Logs

To view the archived logs, click **View Archived Logs** under **Archived Logs**. The **Archived Logs** pop-up appears with all the archived log files.



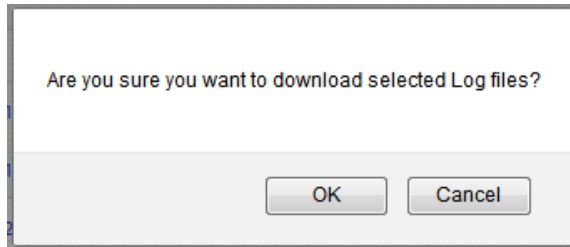
The screenshot shows a window titled "Archived Logs" with a close button (X) in the top right corner. Below the title bar, there is a text box stating: "Log files for this server instance are archived every hour and stored for 7 days. You can view and download these archived log files below. Real-time logs can be accessed through the snapshot logs page." Below this text are three buttons: "Refresh" (with a circular arrow icon), "Download Selected" (with a download icon), and "Download All" (with a checkmark icon). Below the buttons is a table with two columns: "Log File" and "Time". The table contains ten rows of log files, each with a checkbox in the "Log File" column. The log files are named with a pattern: "_var_log_tomcat7_catalina.out-.gz" and the times are in UTC 2013.

Log File	Time
<input type="checkbox"/> _var_log_tomcat7_catalina.out-1380175261.gz	Thu Sep 26 06:10:03 UTC 2013
<input type="checkbox"/> _var_log_tomcat7_catalina.out-1380178861.gz	Thu Sep 26 07:10:03 UTC 2013
<input type="checkbox"/> _var_log_tomcat7_catalina.out-1380265261.gz	Fri Sep 27 07:10:04 UTC 2013
<input type="checkbox"/> _var_log_tomcat7_catalina.out-1380268861.gz	Fri Sep 27 08:10:04 UTC 2013
<input type="checkbox"/> _var_log_tomcat7_catalina.out-1380276061.gz	Fri Sep 27 10:10:04 UTC 2013
<input type="checkbox"/> _var_log_tomcat7_catalina.out-1380279661.gz	Fri Sep 27 11:10:04 UTC 2013
<input type="checkbox"/> _var_log_tomcat7_catalina.out-1380283261.gz	Fri Sep 27 12:10:04 UTC 2013
<input type="checkbox"/> _var_log_tomcat7_catalina.out-1380286861.gz	Fri Sep 27 13:10:05 UTC 2013
<input type="checkbox"/> _var_log_tomcat7_catalina.out-1380290461.gz	Fri Sep 27 14:10:04 UTC 2013

11.1.1.2 Downloading Selected Logs

To download the selected logs, follow these steps:

1. On the **Archived Logs** page, select the checkbox of desired archived file that you want to download and click **Download Selected**.
A pop-up appears with the message, "Are you sure you want to download selected Log files?".
2. Click **OK** to download the selected archived log files.
A pop-up appears to choose the location to save the downloaded archived log files.



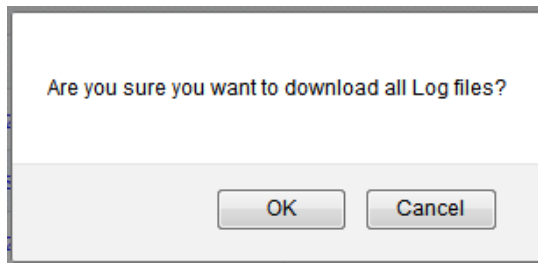
3. Select the location to save the downloaded archived log files, and click **OK**.

11.1.1.3 Downloading all Logs

To download all the archived log files, follow these steps:

1. On the **Archived Logs** page, click **Download All**.

A pop-up appears with the message, "Are you sure you want to download all Log files?".



2. Click **OK** to download the selected archived log files.
A pop-up appears to choose the location to save all downloaded archived log files.
3. Select the location to save the downloaded archived log files, and click **OK**.

11.1.1.4 Refreshing Archived Logs

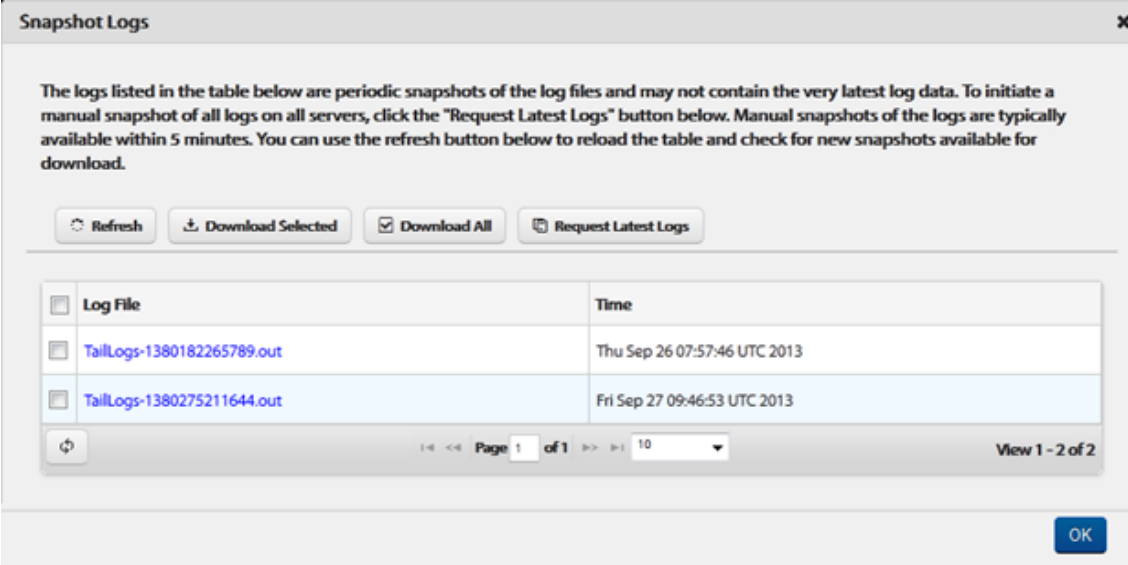
To refresh the archived logs, on the **Archived Logs** page, click **Refresh**.

The Archived Logs are refreshed.

11.1.2 Snapshot Logs

You can access real-time logs through the snapshot logs page. Snapshot logs comprise the last manual log snapshot fetched from the server. The logs listed in the table are periodic snapshots of the log files and may not contain the very latest log data. You can view and download these snapshot log files. If the number of snapshot log files is more than 10, you can use **Next** or **Previous** to move to more number of snapshot log files.

On **Cloud Logs** tab, you can view the list of snapshot logs and manage them.



The logs listed in the table below are periodic snapshots of the log files and may not contain the very latest log data. To initiate a manual snapshot of all logs on all servers, click the "Request Latest Logs" button below. Manual snapshots of the logs are typically available within 5 minutes. You can use the refresh button below to reload the table and check for new snapshots available for download.

Refresh Download Selected Download All Request Latest Logs

Log File	Time
TailLogs-1380182265789.out	Thu Sep 26 07:57:46 UTC 2013
TailLogs-1380275211644.out	Fri Sep 27 09:46:53 UTC 2013

Page 1 of 1 View 1 - 2 of 2

OK

You can perform the following tasks:

- [Viewing Snapshot Logs](#)
- [Requesting Latest Snapshot Logs](#)
- [Downloading Selected Logs](#)
- [Downloading all the Logs](#)
- [Refreshing Snapshot Logs](#)

11.1.2.1 Viewing Snapshot Logs

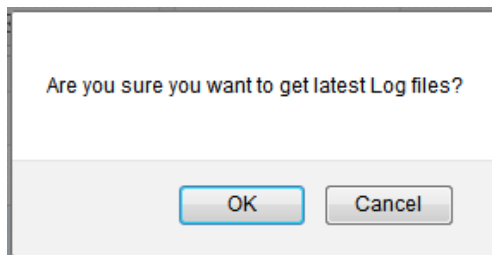
To view the snapshot logs, click **View Snapshot Logs** under **Snapshot Logs**. The **Snapshot Logs** pop-up appears with all the snapshot log files.

11.1.2.2 Requesting Latest Snapshot Logs

To request latest snapshot logs, follow these steps:

1. On the **Snapshot Logs** page, to initiate a manual snapshot of all logs on all servers, follow these steps:
2. Click **Request Latest Logs**.

A pop-up appears with the message, "Are you sure you want to get latest Log files?".

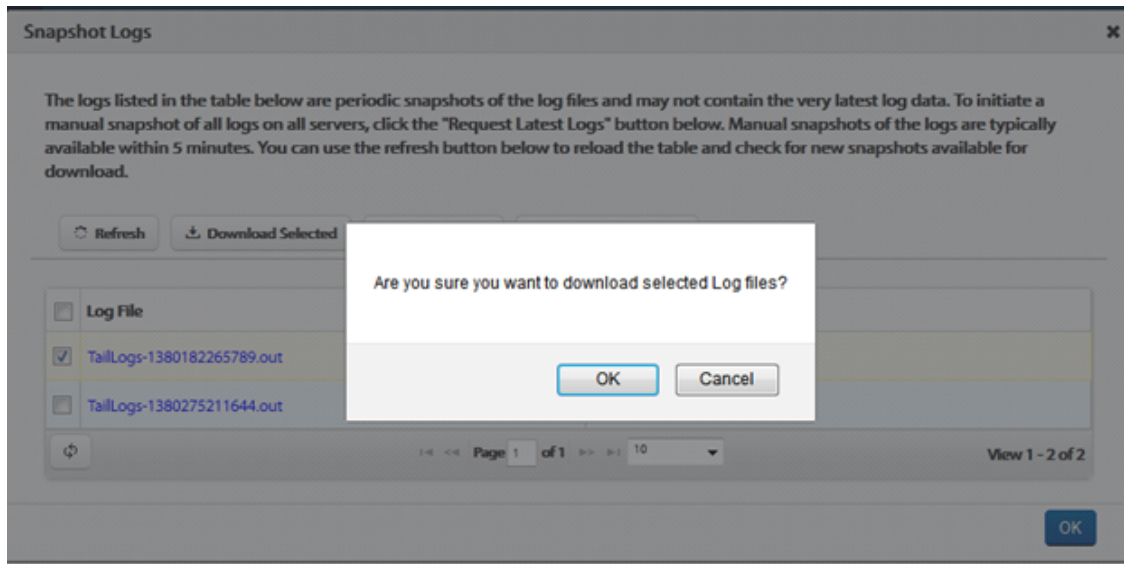


3. Click **OK** to download the latest log files.
The manual snapshots of the logs are typically available within five minutes.

11.1.2.3 Downloading Selected Logs

To download the selected log files, follow these steps:

1. On the **Snapshot Logs** page, select the checkbox of desired snapshot file that you want to download and click **Download Selected**.
A pop-up appears with the message, "Are you sure you want to download selected Log files?".



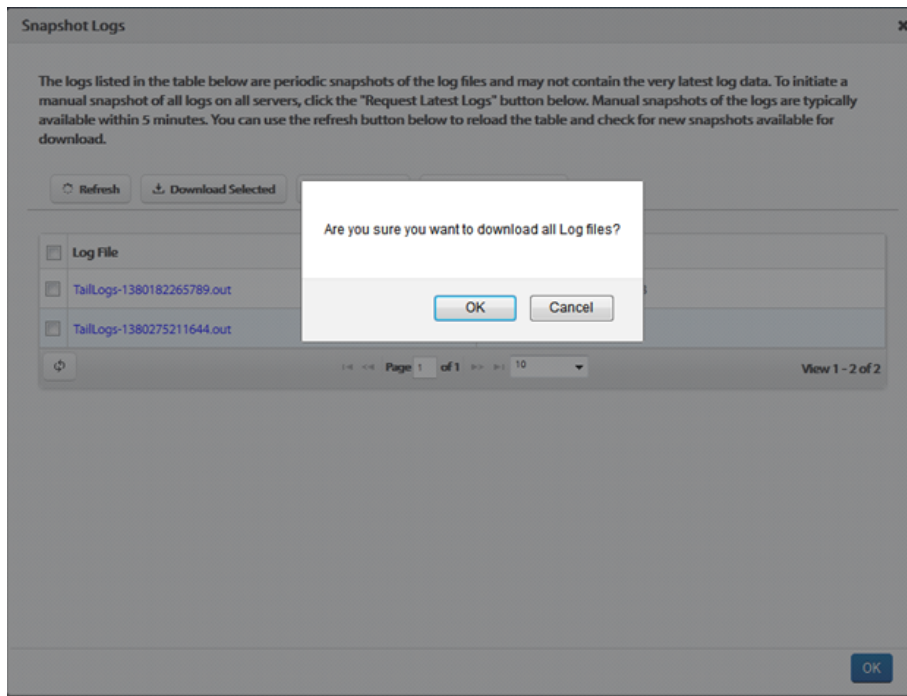
2. Click **OK** to download the selected snapshot log files.
A pop-up appears to choose the location to save all downloaded archived log files.
3. Select the location to save the downloaded snapshot log files, and click **OK**.

11.1.2.4 Downloading all the Logs

To download all the snapshot log files, follow these steps:

1. On the **Snapshot Logs** page, click **Download All**.

A pop-up appears with the message, "Are you sure you want to download all Log files?".



2. Click **OK** to download the selected snapshot log files.
A pop-up appears to choose the location to save all downloaded snapshot log files.
3. Select the location to save the downloaded snapshot log files, and click **OK**.

11.1.2.5 Refreshing Snapshot Logs

To refresh the snapshot logs and to reload the table with new snapshots available for download, on the **Snapshot Logs** page, click **Refresh**.

The Snapshot Logs are refreshed.

11.2 Checking Health of Kony Fabric Sync Server

The Health check view denotes the connection properties for Kony Fabric Sync Server in a cloud environment. It enables you to look at the health of the Kony Fabric Sync Server.

The following are the various connection properties that denote the health of a Kony Fabric Sync Server:

- [Cloud Environment Identification](#)
- [Environment Information](#)
- [Access to Sync DB](#)
- [Access to Accounts API](#)
- [Access to Reporting Queue](#)
- [Security Credentials](#)

11.2.1 Cloud Environment Identification

Cloud Environment Identification parameter indicates whether the Kony Fabric Sync server runs in cloud environment or not. If the status is `Success`, it indicates that the Kony Fabric Sync Server runs in cloud environment.

11.2.2 Environment Identification

If the Environment Identification parameter status is `Success`, it indicates that the environment related parameters are present.

11.2.3 Access to Sync DB

If the Access to Sync DB parameter status is `Success`, it indicates that the Kony Fabric Sync Server has access to SyncConsole database.

11.2.4 Access to Accounts API

If the Access to Accounts API parameter status is `Success`, it has proper Kony accounts base URL and it is able to connect.

11.2.5 Access to Reporting Queue

If the Access to Reporting Queue parameter status is `Success`, it indicates that the environment has proper reporting Queue URL and it is able to connect.

11.2.6 Security Credentials

If the Security Credentials parameter status is `Success`, it indicates that the Kony Fabric Sync Server has the cloud security credentials.

JSON Format Support

The health check has JSON Format Support. To get the health check status on the JSON Format Support, you have to call the health check with output URL parameters as shown:

```
/healthcheck?output=json
```

12. Custom Authentication Manager

Kony Fabric Sync server supports custom authentication where you can authenticate using the custom code written in Java.

You can use custom authentication manager in the below situations.

- Data source has a login web service call that returns authentication token and you need to pass the same authentication token in subsequent web service calls.
- To authenticate the user using Single sign on, and OAuth.

To configure custom authentication, follow these steps:

1. Write the java class by implementing spring `com.kony.sync.console.auth.IAuthenticationManager` interface.
2. Bundle the java class with dependent classes in a jar and copy the jar to the `<sync.home>/apache-tomcat-7.0.26/webapps/synconsole/WEB-INF/lib` folder. If you also have any other dependent third-party jars, then copy those also to the `<sync.home>/apache-tomcat-7.0.26/webapps/synconsole/WEB-INF/lib` folder.
3. [Create an Authentication Profile](#).
4. [Assign an Authentication Profile to an Application](#).
5. Restart Kony Fabric Sync server.

Note: You may have to add `synconsole` classes, in classpath of the project to compile your project.

For example, `<sync.home>/apache-tomcat-7.0.26/webapps/synconsole/WEB-INF/classes`.

12.1 Other Features of Custom Authentication Manager

The other features of Custom Authentication Manager are:

- Using the Custom Authentication Manager, you can override the **ConfigParam** defined under *Service/ServiceConfig* in the Kony Fabric Sync configuration file.

For example, `endpointURL`, and `userid`

- You can also put any variable, for example, *authentication token* in context, and map the same in subsequent web service calls.

For example,

- Use the below code to put the context variable into the context from custom authentication manager

```
ctxParams.put("TOKEN", <token-value>);
```

- Use the below param mapping in the Kony Fabric Sync configuration to take the mapping from the context.

```
<Param Name="token" Source="CONTEXT" SourceValue="TOKEN"/>
```

12.2 An Example of Salesforce Authentication Manager

```
package com.kony.sync.console.auth;

import java.net.URL;
import java.util.HashMap;
import java.util.Map;

import javax.xml.soap.MessageFactory;
import javax.xml.soap.Name;
import javax.xml.soap.SOAPBody;
```

```
import javax.xml.soap.SOAPBodyElement;
import javax.xml.soap.SOAPConnection;
import javax.xml.soap.SOAPConnectionFactory;
import javax.xml.soap.SOAPEnvelope;
import javax.xml.soap.SOAPFault;
import javax.xml.soap.SOAPMessage;

import org.apache.log4j.Logger;
import org.springframework.security.core.Authentication;
import org.springframework.security.core.AuthenticationException;
import org.springframework.stereotype.Service;
import org.w3c.dom.NodeList;

import com.kony.sync.synconfig.IConfigConstants.SourceValue;

@Service("salesforceAuthenticationManager")
public class SalesforceAuthenticationManager implements
IAuthenticationManager {

    private static final String SALESFORCE_DUMMY_PASSWORD =
        "DummySalesforcePassword";
    private static Logger logger = Logger.getLogger
        (SalesforceAuthentication
        Manager.class);

    @Override
    public Authentication authenticate(Authentication arg0) throws
    AuthenticationException {
        SyncAuthentication token = (SyncAuthentication) arg0;
        String userName = token.getPrincipal().toString();
        String password = token.getCredentials().toString();
        try {
            Authentication respToken = callLoginService(
```



```
        userName, password, token);
        return respToken;
    } catch (Exception e) {
        logger.error("Salesforce authentication failed : " +
            e,e);
        token.setAuthenticated(false);
    }
    return token;
}

private Authentication callLoginService(String userName,
String password, SyncAuthentication token) throws
Exception {
    Map<String, Object> authDetails = token.getAuthContextParams();
    //ConsoleConfigProperties props = ConsoleConfigProperties
        .getInstance();
    String propURN = authDetails.get("namespace").toString();
    //props.getPropertyValue("salesforce.namespace");
    String URN = (propURN!=null?propURN:"urn:partner
        .soap.sforce.com");
    try {
        //Preparing the SOAP request
        SOAPMessage message = MessageFactory.newInstance()
            .createMessage();
        SOAPBody body = message.getSOAPBody();
        SOAPEnvelope envelope = message.getSOAPPart()
            .getEnvelope();
        Name bodyElement = envelope.createName
            ("login", "urn", URN);
        SOAPBodyElement loginElement = body.addBodyElement
            (bodyElement);
        Name user = envelope.createName("username"
            , "urn", URN);
```

```
loginElement.addChildElement(user).addTextNode
(userName);
Name pass = envelope.createName("password"
, "urn", URN);
loginElement.addChildElement(pass)
.addTextNode(password);
//Setting the login soap action
message.getMimeHeaders().addHeader("SOAPAction",
URN + "/Soap/loginRequest");
//Connection to invoke the login service
SOAPConnectionFactory soapConnectionFactory =
SOAPConnectionFactory.newInstance();
SOAPConnection connection =
soapConnectionFactory.createConnection();

String salesforceURL = authDetails.get("url")
.toString();//props.getPropertyValue

("salesforce.url");
URL endpoint = new URL(salesforceURL != null
?salesforceURL:

"https://login.salesforce.com/services/Soap/u/25.0");
SOAPMessage response =
connection.call(message, endpoint);
connection.close();
//response.writeTo(System.out);
NodeList nodeList = response.getSOAPBody()
.getElementsByTagNameNS(URN, "sessionId");
if(nodeList.getLength() == 0){
SOAPFault fault = response.getSOAPBody(
).getFault();
throw new Exception("Error while Salesforce
```

```
        Login : " + fault.getFaultString());
    }
    //System.out.println(nodeList
        .item(0).getTextContent());
    NodeList urlList = response.getSOAPBody()
        .getElementsByTagNameNS(URN, "serverUrl");
    NodeList emailList = response.getSOAPBody()
        .getElementsByTagNameNS(URN, "userEmail");
    Map<String, Object> ctxParams = new HashMap
    <String, Object>();
    //Adding SessionId in context so that webservice
        mapping can use for mapping
    ctxParams.put(SourceValue.SESSION_ID.toString(),
        nodeList.item(0).getTextContent());
    // Overriding the endpoint url by setting the
        middleware config parameter
    ctxParams.put("endpointUrl", urlList.item(0)
        .getTextContent());
    //USER_EMAIL and USER_PASSWORD are used to create
        the user in the sync console
    ctxParams.put("USER_EMAIL", emailList.item(0)
        .getTextContent());
    ctxParams.put("USER_PASSWORD",
        SALESFORCE_DUMMY_PASSWORD);
    //List<GrantedAuthority> authorityList
        = new ArrayList<GrantedAuthority>();
    //authorityList.add(new GrantedAuthorityImpl
        ("ROLE_USER"));
    //If any context parameters need to pass to
        sync services then create the
SyncAuthentication instance
    SyncAuthentication responseToken =
        new SyncAuthentication(token.getPrincipal(),
```

```
        token.getCredentials(), null);
        responseToken.setAuthContextParams(ctxParams);
        return responseToken;
    } catch (Exception e) {
        logger.error(e.getMessage(), e);
        throw e;
    }
}
```