

## Salesforce.com using the CloudStreams Adapter



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### Table of Contents [-]

- 1 Prerequisites
- 2 Step 1: Create a CloudStreams Adapter Connection
- 3 Step 2: Create a Salesforce.com Partner SOAP API Account Insert Adapter Service
- 4 Step 3: Test your Cloud Connector Service
- 5 Conclusion

**Duration:** 30 - 45 minutes

In this tutorial you will use CloudStreams to connect to Salesforce and insert a new Account into Salesforce.com.

### Prerequisites #

- Create a Salesforce.com developer account at this link (<http://events.developerforce.com/signup>):
- Generate (reset) a security token from Salesforce.com after creating the account above. Instructions to do this are available from this link ([https://help.salesforce.com/HTViewHelpDoc?id=user\\_security\\_token.htm&language=en\\_US](https://help.salesforce.com/HTViewHelpDoc?id=user_security_token.htm&language=en_US)).
- You must use that security token to append to your password while creating Salesforce.com Cloudstreams adapter connectors.
- You must import the package: Start CloudStreams\_Tutorial.zip ([http://techcommunity.softwareag.com/protected/download/developer-communities/webmethods/FreeTrial/StartCloudStreams\\_Tutorial.zip](http://techcommunity.softwareag.com/protected/download/developer-communities/webmethods/FreeTrial/StartCloudStreams_Tutorial.zip)) using these instructions: **Import an IS Package**

### Step 1: Create a CloudStreams Adapter Connection #

**In this step:** You will create a CloudStreams Adapter Connection to connect to Salesforce.com by logging into the Integration Server Administrator.

To log into the Integration Server from Firefox:

- select the **Firefox** browser icon next to the **Start** menu or select it from the Start Menu or open another browser:



- Direct your browser to `http://<host>:<port>` (`http://<host>:<port>`) e.g. `http://localhost:5555` (`http://localhost:5555`)
- Firefox displays the Integration Server Authentication **dialog**:

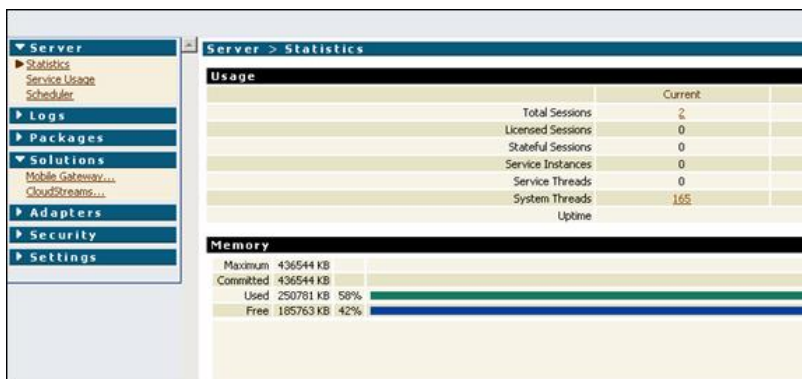


- Use the following values to log into the Integration Server:

Field	Value
<b>Username:</b>	Administrator
<b>Password:</b>	manage (default password for IS)

**Note:** These values may be stored from previous sessions. In this case, select **OK**.

- Firefox displays the **Integration Server Administrator** page:



- select **CloudStreams...** from the **Solutions** menu:

The Integration Server displays the **CloudStreams Adapter Administration** page:

CloudStreams

- Administration
  - General
  - Email
  - Database
  - Virtual Services
  - STS
  - Service Fault Configuration
  - Consumers
  - OAuth Tokens
- Providers
  - Salesforce.com
- Streaming
  - Providers
  - Subscribers

CloudStreams > Administration > General

- [Edit](#)

General Configuration

Target Name your-target-name-here

HTTP Load Balancer URL

HTTPS Load Balancer URL

Keystore Configuration

Keystore Name

Signing Alias

Truststore Name

Ports Configuration

HTTP Ports 5555

HTTPS Ports

Connection Logging

Connection factory wire logging ☐

- Select the **Salesforce.com** link under **Providers**

CloudStreams

- Administration
  - General
  - Email
  - Database
  - Virtual Services

CloudStreams > Providers > Salesforce.com > Connectors

Connector List

Connector Name	Version	Type	View	Enabled	Delete
<a href="#">Salesforce.com Bulk API</a>	25	REST		Yes	
<a href="#">Salesforce.com Partner SOAP API</a>	25	SOAP		Yes	

- The **CloudStreams Adapter Administration -> Providers -> Salesforce.com** page lists the CloudStreams adapter connection types configured for this server.
- The **REST** and **SOAP** API types are enabled.
- Click on the connector name link **Salesforce.com Partner SOAP API** to Configure a New Connection
- On the Connection page click on the **Configure New Connection** link to create a New Partner SOAP API Connection

CloudStreams

- Administration
  - General
  - Email
  - Database
  - Virtual Services
  - STS
  - Service Fault Configuration
  - Consumers
  - OAuth Tokens
- Providers
  - Salesforce.com**
- Streaming
  - Providers
  - Subscribers

CloudStreams > Providers > Salesforce.com > Salesforce.com Partner SOAP API > Connections

- [Return to Connectors](#)
- [Configure New Connection](#)
- [Filter Connections](#)

Connections

Connection Name	Package Name	Connection Type	Enabled	Edit	View	Copy	Delete
No connections found							

- On the **Configure Connection** page, enter the following information to create a connection to Salesforce.com (leave the default for all other fields):

Parameter	Value
Package	Select <b>CloudStreams_Tutorial</b> from the drop down
Folder Name	<b>CloudStreams_Tutorial</b>
Connection Name	<b>MyConnection</b>
Username	Salesforce.com Username
Password	Salesforce.com password + Security Token
Authorization Type	basic

**Note:** For the details about remaining fields please refer to the documentation.

CloudStreams > Providers > Salesforce.com > Salesforce.com Partner SOAP API > Configure Connection

- Return to Salesforce.com Partner SOAP API Connections

Basic view | [Advanced view](#)

**Configure Connection > Salesforce.com Partner SOAP API**

Package: CloudStreams\_Tutorial

Folder Name: CloudStreams\_Tutorial

Connection Name: MyConnection

**Connection Groups: Connection**

Server URL\*: https://login.salesforce.com/services/Soap/u/25.0

**Connection Groups: Credentials**

Username:

Password:

Authorization Type\*: basic

**Connection Groups: Transport Protocol**

Element Character Set: US-ASCII

Strict Transfer Encoding: false

**Connection Groups: Request Headers**

Request Header Names: Content-Type,SOAPAction

Request Header Values: text/xml,login

**Connection Management Properties**

Enable Connection Pooling: true

Initial Pool Size: 1

Maximum Pool Size: 10

Pool Increment Size: 1

Block Timeout (msec): 1000

Expire Timeout (msec): 1000

Startup Retry Count: 0

Startup Backoff Timeout (sec): 10

Session Management: none

Session Timeout (min):

Save

- Click the **Save** button to save the Partner SOAP API CloudStreams Adapter Connection:

CloudStreams > Providers > Salesforce.com > Salesforce.com Partner SOAP API > Connections

- Return to Connectors
- Configure New Connection
- Filter Connections

**Connections**

Connection Name	Package Name	Connection Type	Enabled	Edit	View	Copy	Delete
CloudStreams_Tutorial:MyConnection	CloudStreams_Tutorial	sagcloud	No				

- Click the **No** link in the **Enabled** column of your connection to initiate and enable your connection to Salesforce.com. If you get an error, read the error message that displays and fix the issue before moving forward. You may need to set up a proxy server by clicking on the **Advanced View** link in the edit connection page.

CloudStreams > Providers > Salesforce.com > Salesforce.com Partner SOAP API > Connections

- Return to Connectors
- Configure New Connection
- Filter Connections

**Connections**

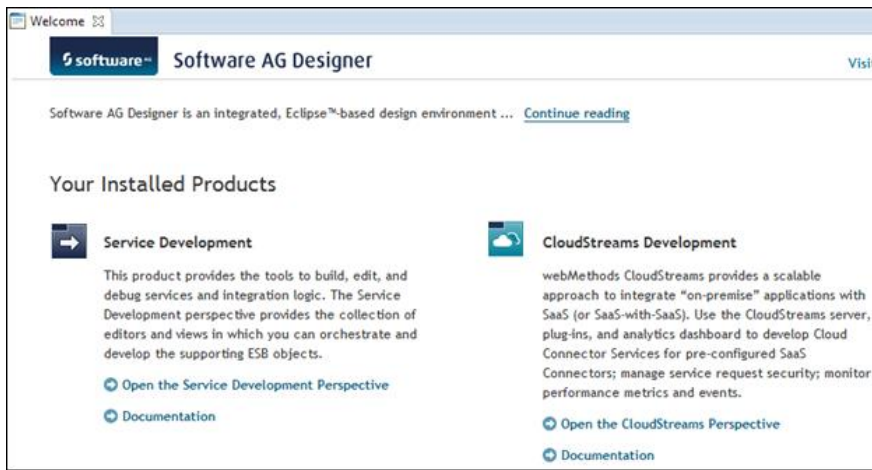
Connection Name	Package Name	Connection Type	Enabled	Edit	View	Copy	Delete
CloudStreams_Tutorial:MyConnection	CloudStreams_Tutorial	sagcloud	Yes				

## Step 2: Create a Salesforce.com Partner SOAP API Account Insert Adapter Service #

- In this step:** You will create a Salesforce.com Account Insert Adapter Service by using your CloudStreams Connector.

If you already have **Software AG Designer** started, just make sure you are in the **Service Development** perspective. If this is the first time you start **Software AG Designer**, open it from the **Start Menu -> All Programs -> Software AG -> Tools -> Software AG Designer 9.5**.

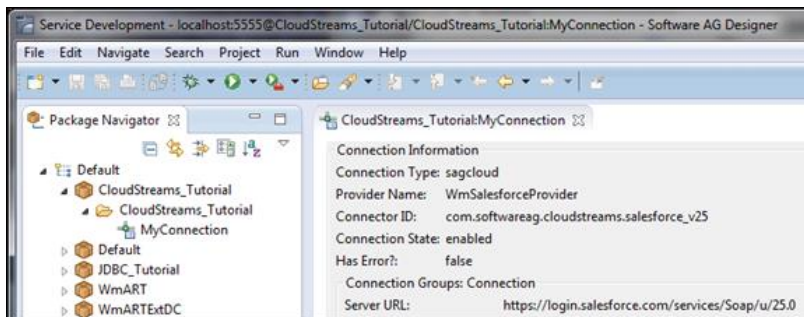
- In the **Software AG Designer Welcome** page, click on the **Open the Service Development Perspective** link:



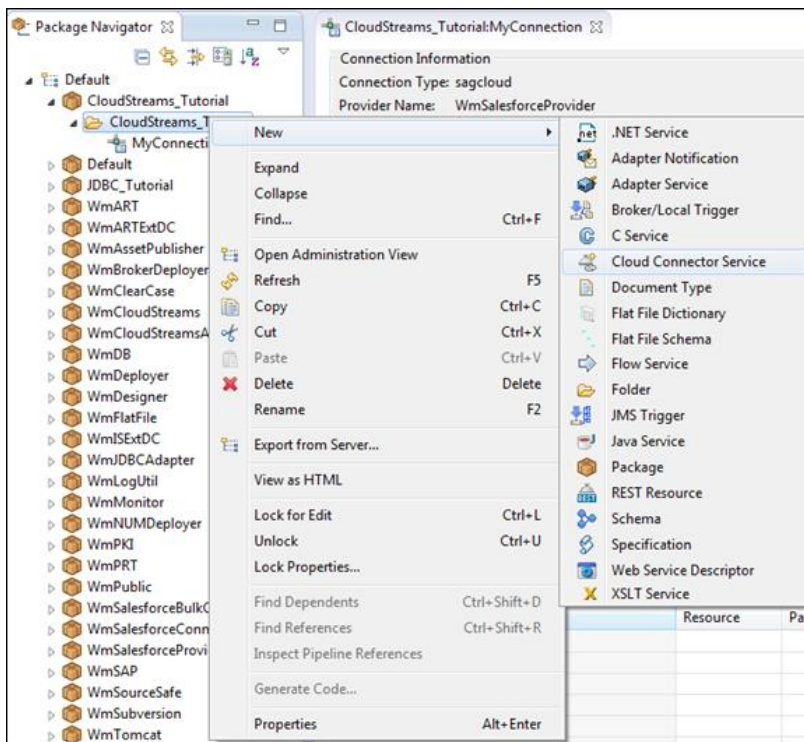
- In the **Package Navigator** view, expand **CloudStream\_Tutorial** -> **CSConnectionService** to view the package's contents:
- In the **Package Navigator** view expand the

**CloudStreams\_Tutorial** package, then the

**CloudStreams\_Tutorial** folder. Double-click on the **MyConnection** CloudStreams Connector to open it up in **Software AG Designer**. This is the connector you created in the step above.



- Right-click on the **CloudStreams\_Tutorial** folder and select **New -> Cloud Connector Service** from the popup menu to create a new cloud connector service.



- In the **Create a New Cloud Connector Service** dialog in the **New Cloud Connector Service** wizard, enter **InsertAccount** in the **Element name** field and click the **Next >** button:

**New Cloud Connector Service**

**Create a New Cloud Connector Service**

Specify the location and name for the new cloud connector service.

Select the parent namespace

Server: Default

URL: localhost:5555 Package: CloudStreams\_Tutorial

Namespace: CloudStreams\_Tutorial

Element name: InsertAccount

< Back Next > Finish Cancel

- In the **Select the Connector** dialog, select the **Salesforce.com Partner SOAP API** row and click the **Next >** button:

**New Cloud Connector Service**

**Select the Connector**

Select a CloudStreams Connector instance to use for the cloud connector service "InsertAccount".

Available Connectors

type connector name

Name	Type	Version	Description
Salesforce.com Bulk API	REST	25	
Salesforce.com Partner SOAP API	SOAP	25	

< Back Next > Finish Cancel

- In the **Select the Connection Pool** dialog, select the connector you created before called **MyConnection** and click the **Finish** button:

**New Cloud Connector Service**

**Select the Connection Pool**

Select the connection pool that the cloud connector service "InsertAccount" will use to connect to the cloud provider.

Available Connection Pools

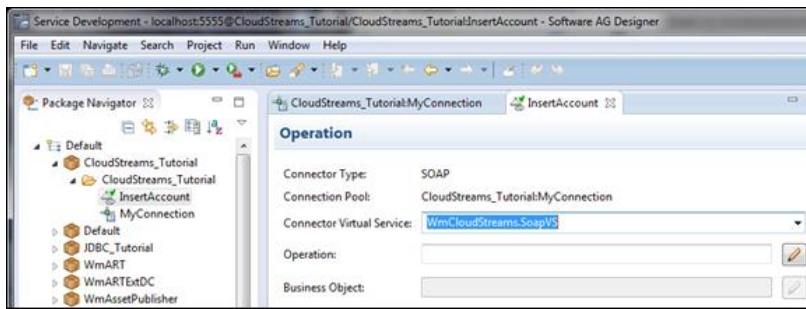
type connection name

CloudStreams\_Tutorial:MyConnection

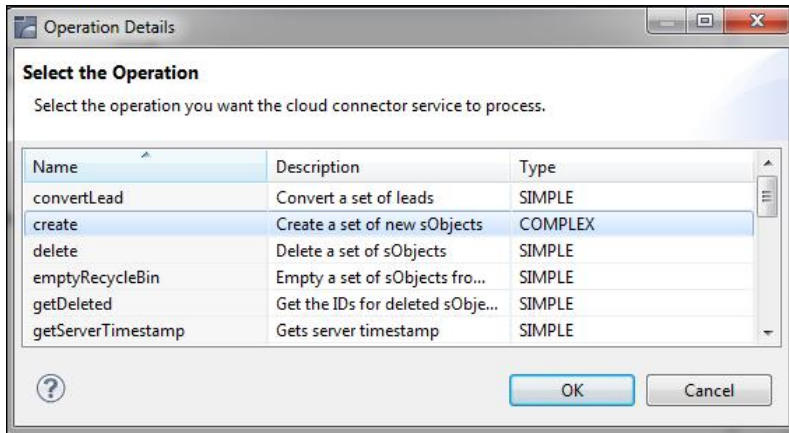
< Back Next > Finish Cancel

- The newly created Cloud Connector Service will open up in **Designer**. Click the edit button next to the **Operation:** field:

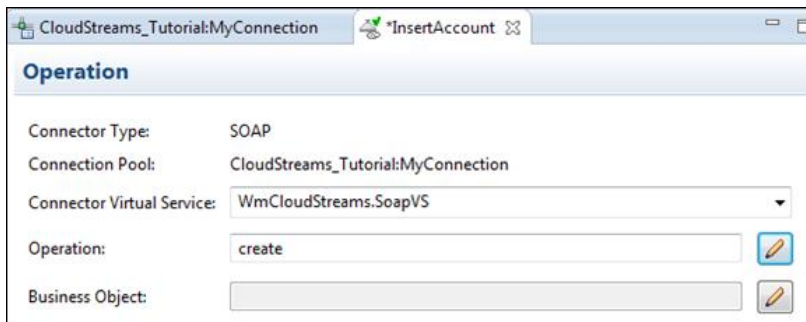




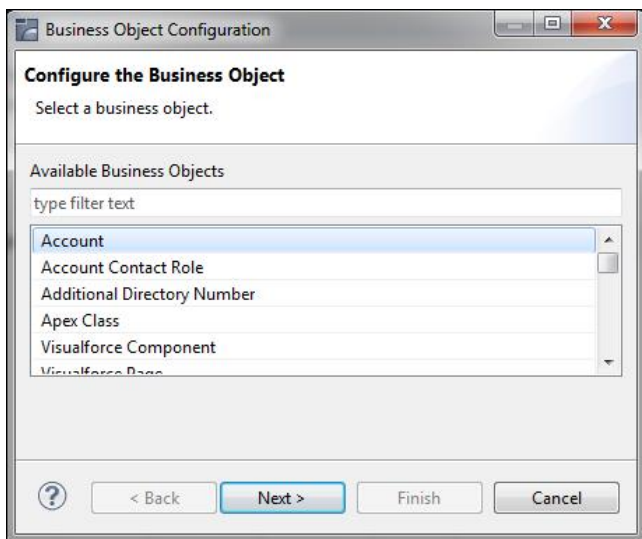
- In the **Select the Operation** dialog of the Operation Details wizard, select the create row and click the **OK** button:



- In the **InsertAccount** editor click on the edit button next to the **Business Object** field to select the type of Salesforce.com entity to create:



- In the **Configure the Business Object** dialog of the **Business Object Configuration** wizard, select the **Account** object and the **Next >** button:



- In the **Select Parameters** dialog, enter the fields you want to fill out when creating a new Salesforce.com account: (**Name**, **BillingStreet**, **BillingCity**, **BillingState**, **BillingPostalCode**) and click the **Finish** button:

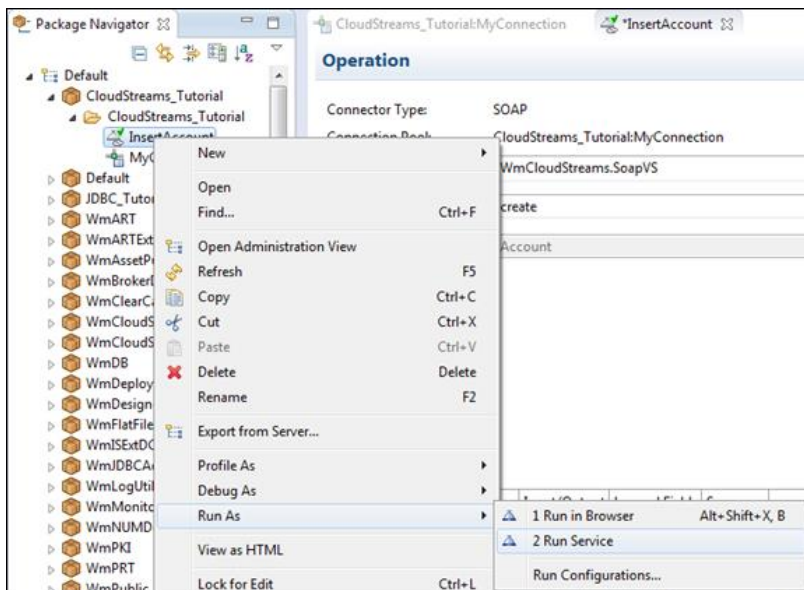


- Save your Cloud Connector Service by clicking on the **Save** icon.

### Step 3: Test your Cloud Connector Service #

**In this step:** You configure the CloudStream Adapter service to create the rows in the **Accounts** table in Salesforce.com.

- In the **Package Navigator** view, right-click on your newly configured cloud connector service, **InsertAccount**, and select **New -> Run Service** from the popup menu:



- In the **Enter Input for 'InsertAccount'** dialog, select the **tns\_sObjects** document list and click the **Add Row**



button to create a document within the document list:

CloudStreams\_Tutorial:InsertAccount

### Enter Input for 'InsertAccount'

☐ Include empty values for String Types

Name	Value
InsertAccountInput	
requestHeaders	
tns:SessionHeader	
tns:sessionId	cn.sessionToken
requestBody	
tns:create	
tns:Objects	
ens:type	core.businessObject
ens:fieldsToNull	
ens:Id	\$(null)
ens:Name	
ens:BillingStreet	
ens:BillingCity	
ens:BillingState	
ens:BillingPostalCode	
SconnectionAlias	

- Enter the data to create a new Salesforce.com account and click **OK**:

CloudStreams\_Tutorial:InsertAccount

### Enter Input for 'InsertAccount'

☐ Include empty values for String Types

Name	Value
InsertAccountInput	
requestHeaders	
tns:SessionHeader	
tns:sessionId	cn.sessionToken
requestBody	
tns:create	
tns:Objects	
tns:Objects[0]	
ens:type	core.businessObject
ens:fieldsToNull	
ens:Id	\$(null)
ens:Name	John Doe
ens:BillingStreet	100 Main St.
ens:BillingCity	Somewhere
ens:BillingState	FL
ens:BillingPostalCode	12345
SconnectionAlias	

- In the **Results** view, you should see the following:



[localhost:5555] CloudStreams_Tutorial:InsertAccount (Mar 03, 2014 07:11:12 PM)	
Name	Value
InsertAccountInput	
requestBody	
tns:create	
tns:sObjects	
tns:sObjects[0]	
requestHeaders	
tns:SessionHeader	
tns:sessionId	cn.sessionToken
InsertAccountOutput	
responseBody	
tns:createResponse	
tns:result	
tns:result[0]	
tns:id	001i000000ep2K3AAI
tns:success	true

- You should be able to login to Salesforce.com and see a newly created Account by clicking on the **Accounts** link at the top of your Salesforce.com homepage, then select the **Go** button to list the Accounts.

## Conclusion #

You have created a new Cloudstreams SOAP API connection to Salesforce.com, created a new Cloudstreams Adapter Connector to insert a new Account into your Salesforce.com instance, and tested this service in Software AG Designer. Feel free to test out the creation of other adapter services to manage any other sObjects.

To import the solution of this tutorial download End CloudStreams Tutorial.zip ([http://techcommunity.softwareag.com/protected/download/developer-communities/webmethods/FreeTrial/End CloudStreams\\_Tutorial.zip](http://techcommunity.softwareag.com/protected/download/developer-communities/webmethods/FreeTrial/End%20CloudStreams_Tutorial.zip)) and follow the directions in the **Import an IS Package** tutorial. You will still have to enter the Salesforce credentials and enable the Salesforce Connection in the solution import according to Step 1 in this tutorial.

27 Attachments (<http://techcommunity.softwareag.com/pwiki?>

p\_p\_id=36&p\_p\_lifecycle=0&p\_p\_state=pop\_up&p\_p\_mode=view&\_36\_struts\_action=%2Fwiki%2Fview\_page\_attachments&p\_r\_p\_185834411\_nodeName=Main&p\_r\_p\_185834411\_title=CloudStreams+tutorial+Integrate+with+Salesforce.com+using+the+CloudStreams+Adapter&\_36\_redirect=http%3A%2F%2Ftechcommunity.softwareag.com%2Fwiki%2F-%2Fwiki%2FMain%2FCloudStreams%2Btutorial%2B-%2BIntegrate%2Bwith%2BSalesforce.com%2Busing%2Bthe%2BCloudStreams%2BAdapter%2Fpop\_up%3F\_36\_viewMode%3Dprint)

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### Comments



**Mahesh K. Sreenivasulu**

([http://techcommunity.softwareag.com/c/my\\_sites/view?groupId=142977&privateLayout=0](http://techcommunity.softwareag.com/c/my_sites/view?groupId=142977&privateLayout=0))

Good explanation 😊 Thanks.....

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Posted on 5/6/14 4:35 PM.



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Posted on 6/12/14 2:44 PM in reply to Mahesh Kumar S.



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i did not get salesforce link under provider in step 1 . instead of salesforce there is "None" i am using 9.7...how i get salesforce provider