



Salesforce Connect User Guide

Installing, configuring and using Salesforce Connect

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Chapter 1 Overview

This chapter provides an overview of Salesforce Connect.

1.1 Capabilities

This section provides an overview of the capabilities of Salesforce Connect.

1.1.1 Expose Salesforce contacts as Sitecore users

Salesforce contact appear in Sitecore as users. This enables the following:

- Salesforce contacts can be created using the Sitecore API
- Salesforce contacts can be managed using the Sitecore User Manager
- Salesforce contacts can log into Sitecore sites
- Sitecore user profile can be populated with data from Salesforce

1.1.2 Capture Salesforce contact data in xDB

xDB stores Sitecore contact data in facets. If a Sitecore contact is identified as a Salesforce contact, contact data from Salesforce is exposed to Sitecore through a Sitecore contact facet. This makes Salesforce contact data available for Sitecore segmentation and other uses.

1.1.3 Caching

In order to minimize the number of API calls Sitecore must make to Salesforce the module makes extensive use of caching.

1.1.4 Multiple Salesforce Accounts

Salesforce Connect is compatible with multiple Salesforce accounts. In other words, a single Sitecore instance can have connections to one or more Salesforce accounts.

1.2 Comparing full and partial Salesforce support

When you install Salesforce Connect you must decide whether you want full or partial Salesforce support.

1.2.1 Full support

Full support requires a package be installed on Salesforce. The installation must be performed by an administrator of your Salesforce environment.

Before you install the package Salesforce clearly describes exactly which changes will be made to your Salesforce environment.

1.2.2 Partial support

Partial support does not require an extra package be installed on Salesforce. However, without the extensions included in the package, the following Salesforce Connect functionality is unavailable:

- A. Sitecore cannot create new Salesforce contacts
- B. Sitecore cannot authenticate Salesforce contacts

Chapter 2 Full Salesforce support installation

This chapter describes how to install Salesforce Connect with full Salesforce support.

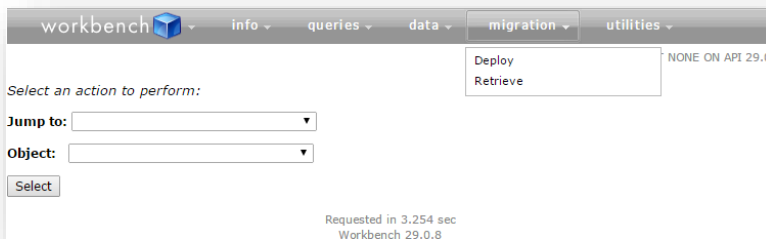
2.1 Salesforce configuration

This section describes the configuration that must be performed on Salesforce. An administrator for your Salesforce environment must follow these instructions.

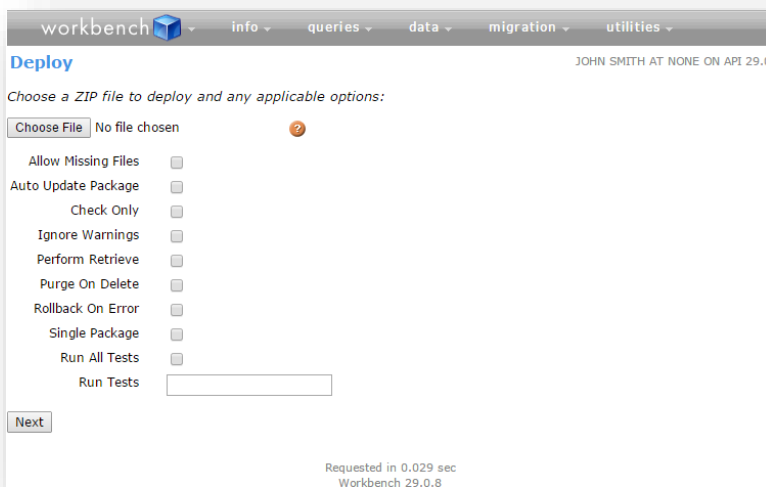
2.1.1 Install the Sitecore Salesforce packages

One package adds custom fields to the Salesforce Contact object. The other package adds a custom object type to Salesforce that allows Sitecore roles to be associated with a Salesforce Contact.

1. Log into the Salesforce Workbench (<https://workbench.developerforce.com>)
2. Navigate to migration > deploy

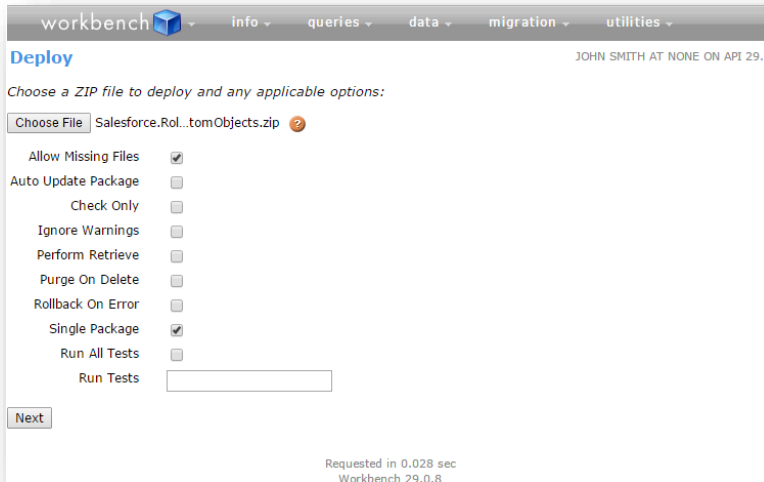


3. Click Choose File and select the file Salesforce.Role.CustomObjects.zip



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4. Select the options "Allow Missing Files" and "Single Package" and click Next

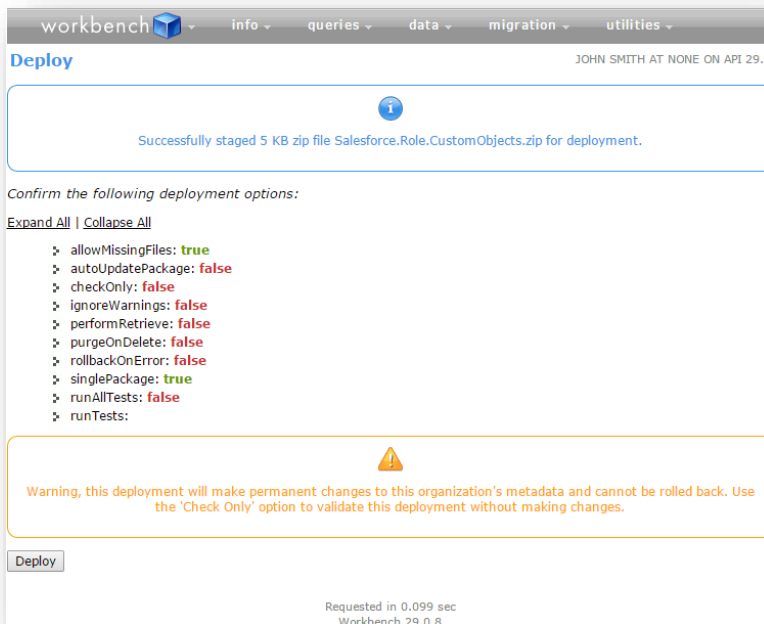


The screenshot shows the 'Deploy' tab in the Workbench application. The user is logged in as JOHN SMITH. The interface prompts the user to 'Choose a ZIP file to deploy and any applicable options:'. A file named 'Salesforce.Rol...tomObjects.zip' is selected. The following options are visible:

- Allow Missing Files: ☒
- Auto Update Package: ☐
- Check Only: ☐
- Ignore Warnings: ☐
- Perform Retrieve: ☐
- Purge On Delete: ☐
- Rollback On Error: ☐
- Single Package: ☒
- Run All Tests: ☐
- Run Tests:

A 'Next' button is located at the bottom left. The status bar at the bottom indicates 'Requested in 0.028 sec' and 'Workbench 29.0.8'.

5. Click Deploy



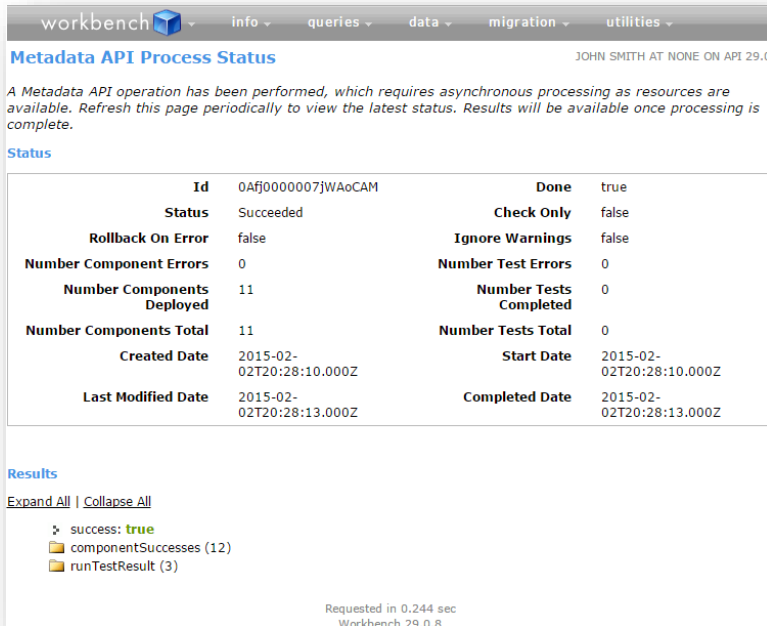
The screenshot shows the 'Deploy' tab in the Workbench application. A success message states: 'Successfully staged 5 KB zip file Salesforce.Role.CustomObjects.zip for deployment.' Below this, the user is prompted to 'Confirm the following deployment options:'. The options are listed with their current values:

- allowMissingFiles: true
- autoUpdatePackage: false
- checkOnly: false
- ignoreWarnings: false
- performRetrieve: false
- purgeOnDelete: false
- rollbackOnError: false
- singlePackage: true
- runAllTests: false
- runTests:

A warning message is displayed: 'Warning, this deployment will make permanent changes to this organization's metadata and cannot be rolled back. Use the 'Check Only' option to validate this deployment without making changes.' A 'Deploy' button is located at the bottom left. The status bar at the bottom indicates 'Requested in 0.099 sec' and 'Workbench 29.0.8'.

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6. The status screen will tell you the package was installed



workbench info queries data migration utilities

Metadata API Process Status

JOHN SMITH AT NONE ON API 29.0

A Metadata API operation has been performed, which requires asynchronous processing as resources are available. Refresh this page periodically to view the latest status. Results will be available once processing is complete.

Status

Id	0Afj0000007JWaoCAM	Done	true
Status	Succeeded	Check Only	false
Rollback On Error	false	Ignore Warnings	false
Number Component Errors	0	Number Test Errors	0
Number Components Deployed	11	Number Tests Completed	0
Number Components Total	11	Number Tests Total	0
Created Date	2015-02-02T20:28:10.000Z	Start Date	2015-02-02T20:28:10.000Z
Last Modified Date	2015-02-02T20:28:13.000Z	Completed Date	2015-02-02T20:28:13.000Z

Results

Expand All | Collapse All

- success: **true**
- componentSuccesses (12)
- runTestResult (3)

Requested in 0.244 sec
Workbench 29.0.8

7. Deploy the file Salesforce.Contact.CustomFields.zip using the previous instructions starting from step 2.



workbench info queries data migration utilities

Metadata API Process Status

JOHN SMITH AT NONE ON API 29.0

A Metadata API operation has been performed, which requires asynchronous processing as resources are available. Refresh this page periodically to view the latest status. Results will be available once processing is complete.

Status

Id	0Afj0000007JWbGCAU	Done	true
Status	Succeeded	Check Only	false
Rollback On Error	false	Ignore Warnings	false
Number Component Errors	0	Number Test Errors	0
Number Components Deployed	7	Number Tests Completed	0
Number Components Total	7	Number Tests Total	0
Created Date	2015-02-02T20:33:18.000Z	Start Date	2015-02-02T20:33:18.000Z
Last Modified Date	2015-02-02T20:33:20.000Z	Completed Date	2015-02-02T20:33:20.000Z

Results

Expand All | Collapse All

- success: **true**
- componentSuccesses (8)
- runTestResult (3)

Requested in 0.472 sec
Workbench 29.0.8

8. Log out of the Salesforce Workbench

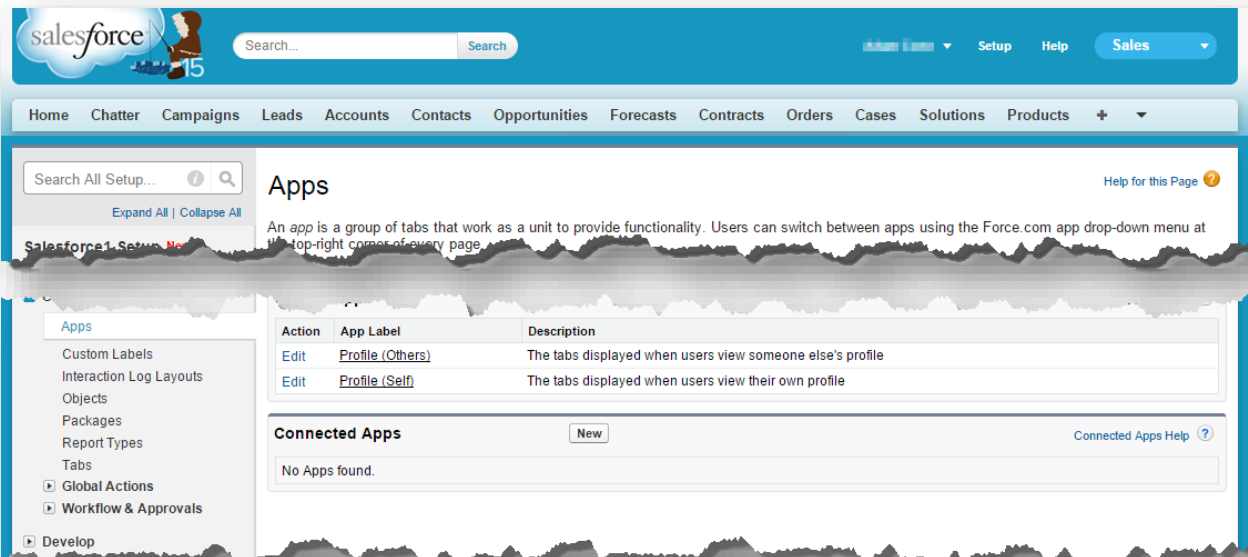
2.1.2 Create a new connected app for Sitecore

This connected app informs Salesforce that Sitecore will be making API calls to Salesforce.

1. Log into Salesforce.com as an administrator
2. Navigate to Create > Apps in the left-hand menu in the "Build" section

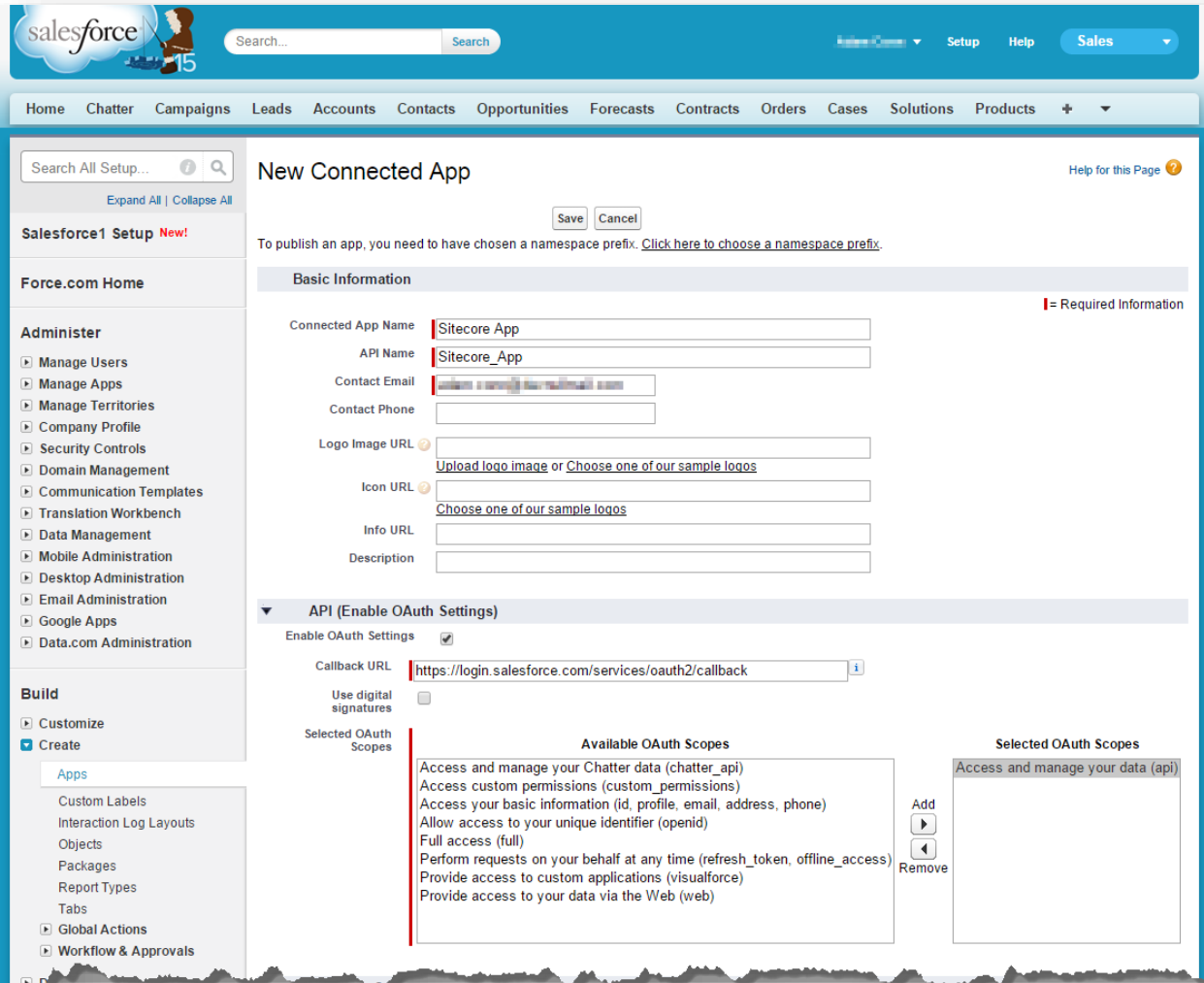


3. Click "New" in the "Connected Apps" section



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4. Enter values for the following fields and click Save
 - a. Connected App Name
 - b. API Name
 - c. Contact Email
 - d. Enable OAuth Settings: checked
 - e. Callback URL: <https://login.salesforce.com/services/oauth2/callback>
 - f. Selected OAuth Scopes: Access and manage your data (api)



Search

Home Chatter Campaigns Leads Accounts Contacts Opportunities Forecasts Contracts Orders Cases Solutions Products +

Search All Setup...

Salesforce1 Setup New!

Force.com Home

Administer

- Manage Users
- Manage Apps
- Manage Territories
- Company Profile
- Security Controls
- Domain Management
- Communication Templates
- Translation Workbench
- Data Management
- Mobile Administration
- Desktop Administration
- Email Administration
- Google Apps
- Data.com Administration

Build

- Customize
- Create
 - Apps
 - Custom Labels
 - Interaction Log Layouts
 - Objects
 - Packages
 - Report Types
 - Tabs
 - Global Actions
 - Workflow & Approvals

New Connected App

To publish an app, you need to have chosen a namespace prefix. [Click here to choose a namespace prefix.](#)

Basic Information

Connected App Name

API Name

Contact Email

Contact Phone

Logo Image URL

Icon URL

Info URL

Description

API (Enable OAuth Settings)

Enable OAuth Settings ☒

Callback URL

Use digital signatures ☐

Selected OAuth Scopes

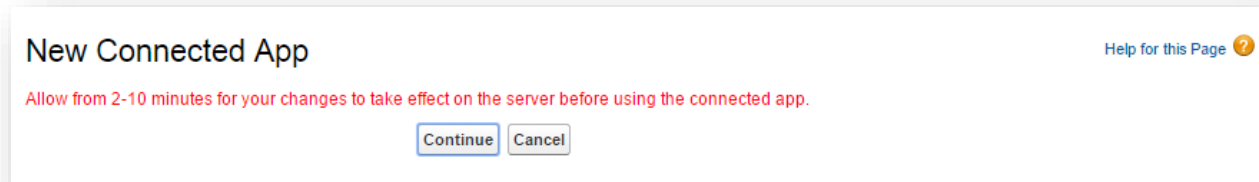
Available OAuth Scopes

- Access and manage your Chatter data (chatter_api)
- Access custom permissions (custom_permissions)
- Access your basic information (id, profile, email, address, phone)
- Allow access to your unique identifier (openid)
- Full access (full)
- Perform requests on your behalf at any time (refresh_token, offline_access)
- Provide access to custom applications (visualforce)
- Provide access to your data via the Web (web)

Selected OAuth Scopes

- Access and manage your data (api)

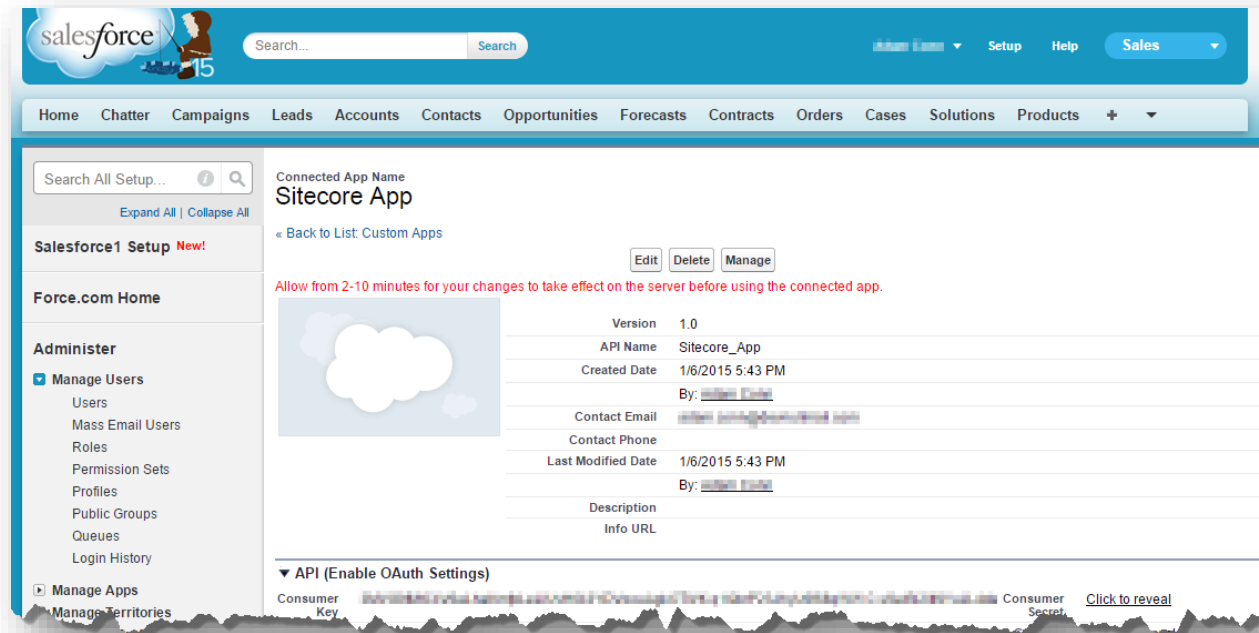
5. A confirmation screen will indicate that the new connected app was created. Click Continue.



2.1.3 Create a new permission set

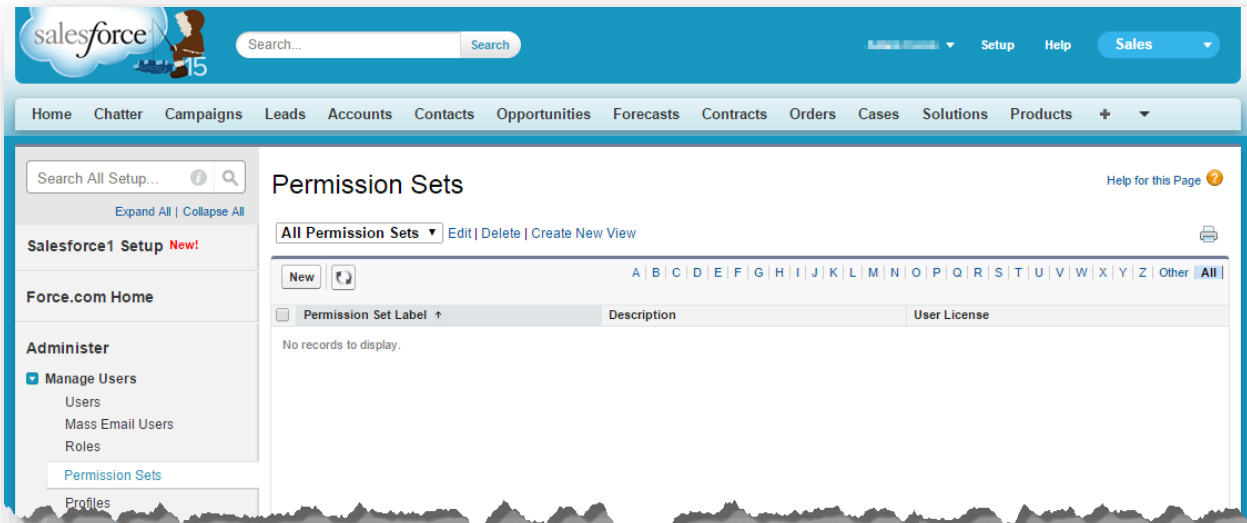
This permission set encapsulates the security settings that are required in order for Sitecore to be able to interact with Salesforce.

1. Navigate to Manage Users > Permission Sets

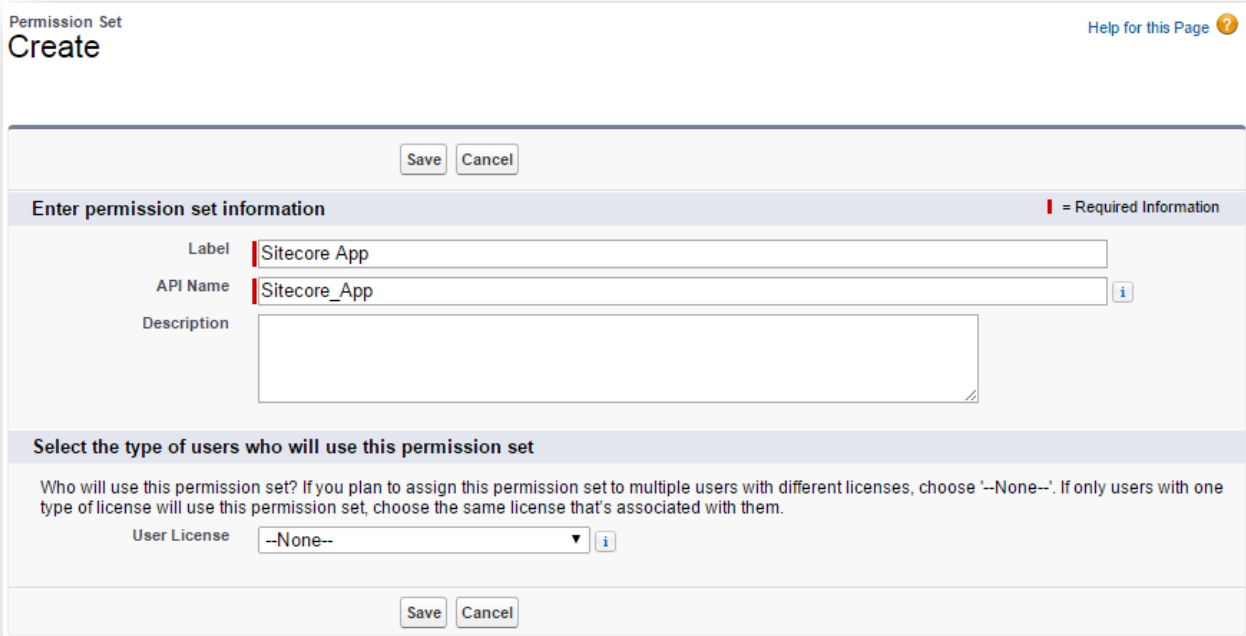


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2. Click New



3. Enter values for the following fields and click Save
 - a. Label: Sitecore App
 - b. API Name: Sitecore_App



Permission Set
Create

Save Cancel

Enter permission set information ! = Required Information

Label Sitecore App

API Name Sitecore_App i

Description

Select the type of users who will use this permission set

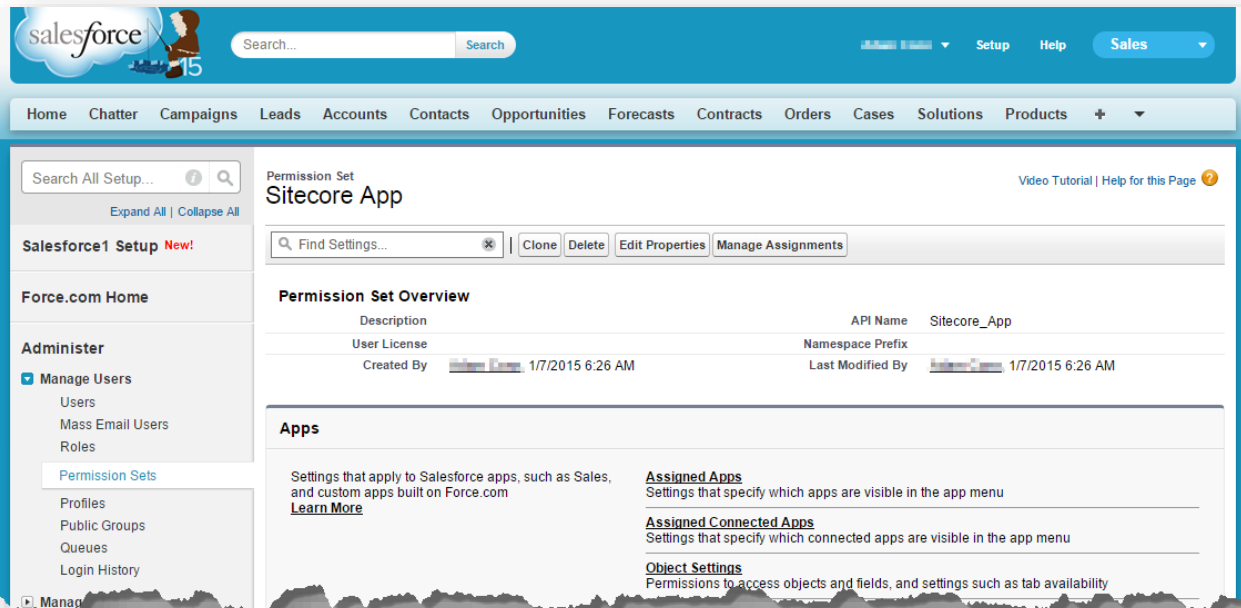
Who will use this permission set? If you plan to assign this permission set to multiple users with different licenses, choose '--None--'. If only users with one type of license will use this permission set, choose the same license that's associated with them.

User License --None-- i

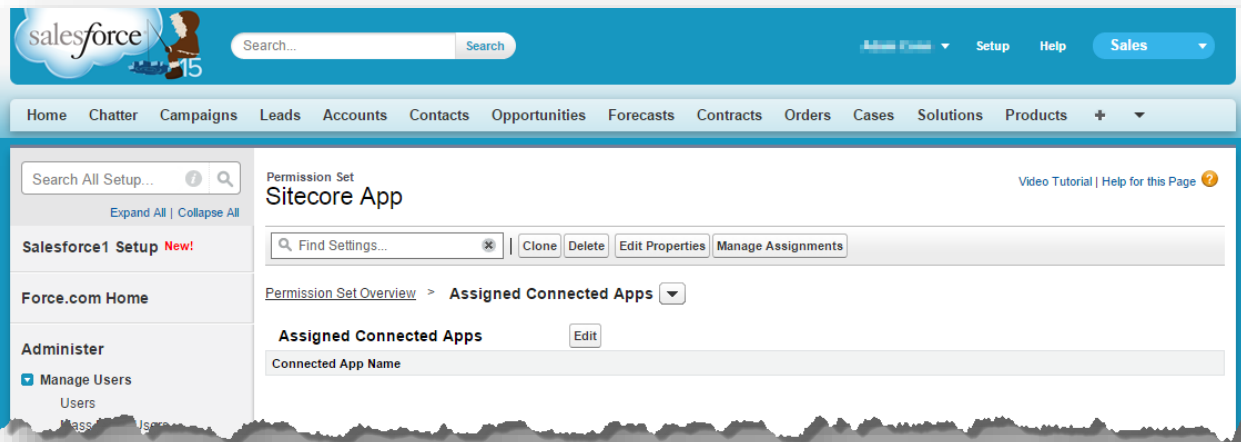
Save Cancel

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- Click "Assigned Connected Apps" in the "Apps" section

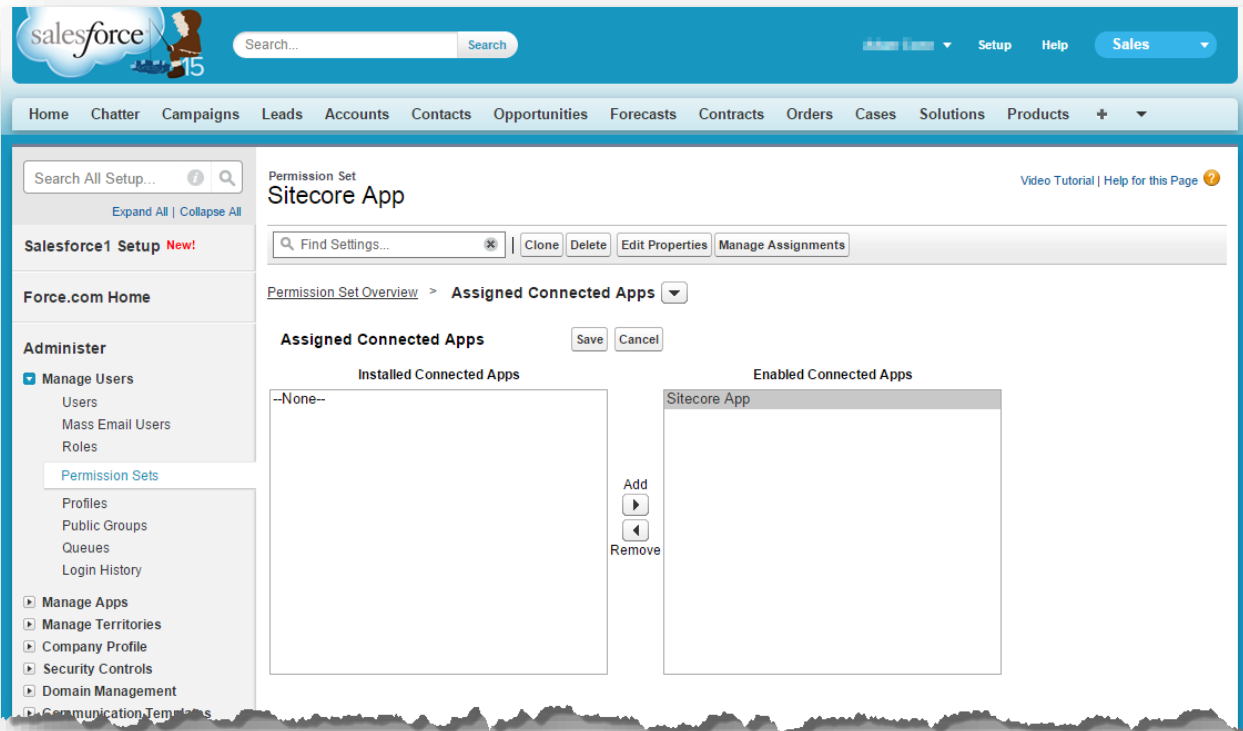


- Click "Edit"

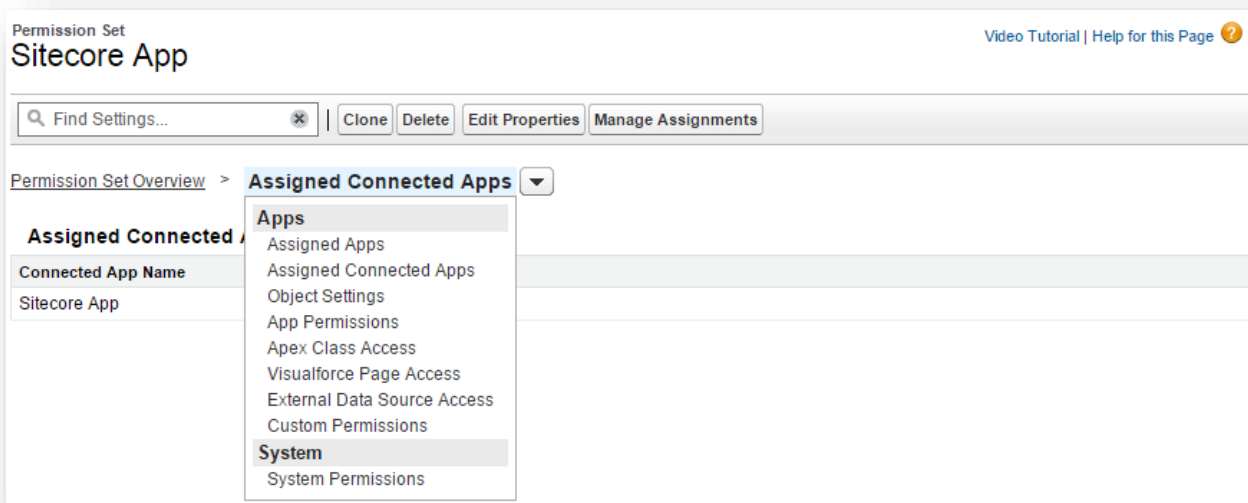


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6. Add the connected app you created in the previous section and click Save



7. Navigate to Assigned Connected Apps > Object Settings



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8. Click "Contacts" in the "Object Settings" section

Permission Set **Sitecore App** [Video Tutorial](#) | [Help for this Page](#) ?

Find Settings...

[Permission Set Overview](#) > **Object Settings** ▼

Object Settings

Object Name	Object Permissions	Total Fields	Tab Settings
Accounts	No Access	38	--
Assets	No Access	18	--
Campaign Members	--	29	--
Campaigns	No Access	37	--
Cases	No Access	33	--
Coaching	No Access	5	--
Contacts	No Access	37	--
Content	--	--	--
Contracts	No Access	23	--
D&B Companies	No Access	--	--
Dashboards	--	--	--

9. Click "Edit"

Permission Set **Sitecore App** [Video Tutorial](#) | [Help for this Page](#) ?

Find Settings...

[Permission Set Overview](#) > [Object Settings](#) ▼ **Contacts** ▼

Contacts

Object Permissions

Permission Name	Enabled
...	...

Salesforce Connect User Guide

10. Check all of the boxes in the "Object Permissions" and "Field Permissions" sections and click Save (note: ignore any box that is disabled)

Permission Set Video Tutorial | Help for this Page ?

Sitecore App

Find Settings... Clone Delete Edit Properties Manage Assignments

Permission Set Overview > Object Settings ▼ Contacts ▼

Contacts Save Cancel

Object Permissions

Permission Name	Enabled
Read	<input checked="" type="checkbox"/>
Create	<input checked="" type="checkbox"/>
Edit	<input checked="" type="checkbox"/>
Delete	<input checked="" type="checkbox"/>
View All	<input checked="" type="checkbox"/>
Modify All	<input checked="" type="checkbox"/>

Field Permissions

Field Name	Read	Edit
------------	------	------

11. Click "Object Settings"

Permission Set Video Tutorial | Help for this Page ?

Sitecore App

Find Settings... Clone Delete Edit Properties Manage Assignments

Permission Set Overview > Object Settings ▼ Contacts ▼

Contacts Edit

Object Permissions

Permission Name	Enabled
-----------------	---------

12. The Object Settings screen indicates that permissions have been assigned to Contacts objects.

Permission Set **Sitecore App** [Video Tutorial](#) | [Help for this Page](#) ?

Find Settings... ✕ | [Clone](#) [Delete](#) [Edit Properties](#) [Manage Assignments](#)

[Permission Set Overview](#) > **Object Settings** ▼

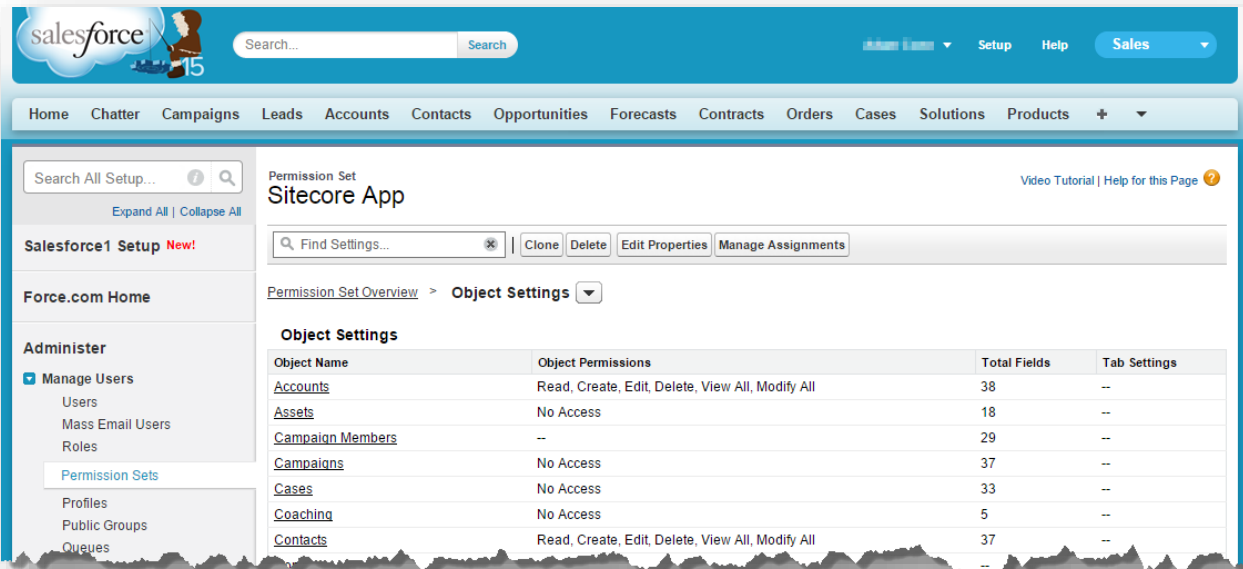
Object Settings

Object Name	Object Permissions	Total Fields	Tab Settings
Accounts	No Access	38	--
Assets	No Access	18	--
Campaign Members	--	29	--
Campaigns	No Access	37	--
Cases	No Access	33	--
Coaching	No Access	5	--
Contacts	Read, Create, Edit, Delete, View All, Modify All	37	--
Content	--	--	--
Contracts	No Access	23	--
D&B Companies	No Access	--	--
Dashboards	--	--	--

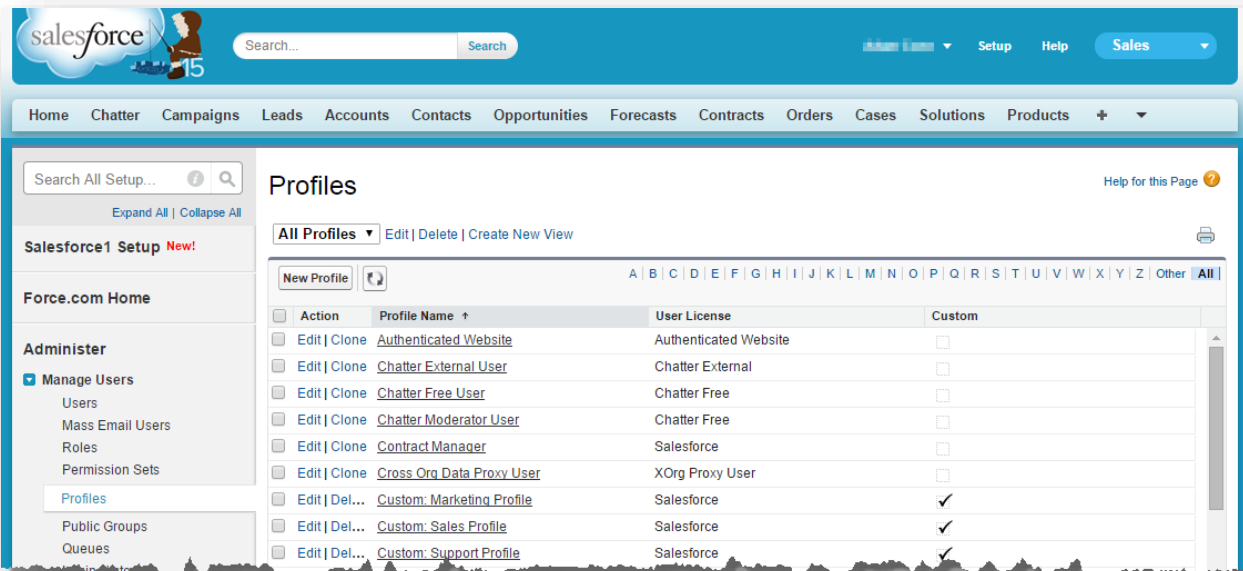
2.1.4 Create a new profile

This profile represents a new type of Salesforce user that Sitecore uses to interact with Salesforce.

1. Navigate to Manage Users > Profiles



2. Click New Profile



3. Enter values for the following fields and click Save
 - a. Existing Profile: Standard User

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b. Profile Name: Sitecore Connect User

Clone Profile

[Help for this Page ?](#)

Enter the name of the new profile.

You must select an existing profile to clone from.

Existing Profile Standard User ▼

User License Salesforce

Profile Name Sitecore Connect User

Save
Cancel

4. Click Edit

Profile

Sitecore Connect User

[Help for this Page ?](#)

[« Back to List: Connected Apps](#)

Users with this profile have the permissions and page layouts listed below. Administrators can change a user's profile by editing that user's personal information.

If your organization uses Record Types, use the Edit links in the Record Type Settings section below to make one or more record types available to users with this profile.

[Login IP Ranges \[0\]](#) |
 [Enabled Apex Class Access \[0\]](#) |
 [Enabled Visualforce Page Access \[0\]](#) |
 [Enabled External Data Source Access \[0\]](#) |
 [Enabled Service Presence Status Access \[0\]](#) |
 [Enabled Custom Permissions \[0\]](#)

Profile Detail

Edit
Clone
Delete
View Users

Name	Sitecore Connect User		
User License	Salesforce	Custom Profile	<input checked="" type="checkbox"/>
Description			

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5. Set the following permissions and click Save
 - a. Administrative Permissions
 - i. Manage Users
 - ii. View Setup and Configuration
 - b. Standard Objects Permissions
 - i. Contacts: Read, Edit, Delete, View All, Modify All
 - c. Custom Object Permissions
 - i. Sitecore Roles: Read, Create, Edit, Delete, View All, Modify All
 - ii. Sitecore Role Associations: Read, Create, Edit, Delete, View All, Modify All

Profile Edit
Sitecore Connect User

Set the permissions and page layouts for this profile.

Profile Edit [Save] [Cancel]

Name: Sitecore Connect User
User License: Salesforce
Custom Profile: ☒
Description:
Sitecore Roles: Tab Hidden

Administrative Permissions

<input type="checkbox"/> Access Chatter For SharePoint	<input type="checkbox"/> Manage Knowledge Article Import/Export
<input type="checkbox"/> Edit Read Only Fields	<input type="checkbox"/> Manage Unlisted Groups
<input checked="" type="checkbox"/> Invite Customers To Chatter	<input checked="" type="checkbox"/> Manage Users
<input type="checkbox"/> IP Restrict Requests	<input type="checkbox"/> Moderate Chatter
<input type="checkbox"/> Manage Auth. Providers	<input type="checkbox"/> Modify All Data
<input type="checkbox"/> Manage Roles	<input type="checkbox"/> Show Help Link
<input type="checkbox"/> Manage System Configurations	<input type="checkbox"/> View Reports in Public Folders
<input checked="" type="checkbox"/> Manage Internal Users	<input checked="" type="checkbox"/> View Setup and Configuration
<input checked="" type="checkbox"/> Manage IP Addresses	

General User Permissions

☐ Activate Controlling System Field

Standard Object Permissions

The permissions defined here control access at the object level. Access to individual records within that object type is controlled by the sharing model. Set access levels based on the functional requirements for the profile. For example, create different groups of permissions for individual contributors, managers, and administrators. [How do I choose?](#)

	Basic Access					Data Administration	
	Read	Create	Edit	Delete	View All	Modify All	
Accounts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Assets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Campaigns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Coaching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Contacts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Contracts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Goals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Goal Collaborators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Goal Links	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ideas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Leads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Macros	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Opportunities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Custom Object Permissions

	Basic Access					Data Administration	
	Read	Create	Edit	Delete	View All	Modify All	
Sitecore Roles	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Sitecore Role Associations	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Desktop Integration Clients

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6. Navigate to Field-Level Security > Contact > View

Profile
[Help for this Page ?](#)

Sitecore Connect User

[« Back to List: Profiles](#)

Users with this profile have the permissions and page layouts listed below. Administrators can change a user's profile by editing that user's personal information.

If your organization uses Record Types, use the Edit links in the Record Type Settings section below to make one or more record types available to users with this profile.

[Login IP Ranges \[0\]](#) |
 [Enabled Apex Class Access \[0\]](#) |
 [Enabled Visualforce Page Access \[0\]](#) |
 [Enabled External Data Source Access \[0\]](#) |
 [Enabled Service Presence Status Access \[0\]](#) |
 [Enabled Custom Permissions \[0\]](#)

Profile Detail
[Edit](#)
[Clone](#)
[Delete](#)
[View Users](#)

Name	Sitecore Connect User		
User License	Salesforce	Custom Profile	<input checked="" type="checkbox"/>
Description			

[\[View Assignments \]](#)
[\[View Assignments \]](#)

Field-Level Security

Standard Field-Level Security

Account	[View]	Idea	[View]
Asset	[View]	Lead	[View]
Campaign	[View]	Macro	[View]
Campaign Member	[View]	Opportunity	[View]
Case	[View]	Opportunity Product	[View]
Coaching	[View]	Order	[View]
Contact	[View]	Order Product	[View]
Contract	[View]	Performance Cycle	[View]
Event	[View]	Price Book	[View]
Feedback	[View]	Price Book Entry	[View]
Feedback Question	[View]	Product	[View]
Feedback Question Set	[View]	Social Persona	[View]
Feedback Request	[View]	Solution	[View]
Goal	[View]	Task	[View]
Goal Collaborator	[View]	User	[View]
Goal Link	[View]		

Custom Field-Level Security

Sitecore Role	[View]	Sitecore Role Association	[View]
---------------	--------------------------	---------------------------	--------------------------

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7. Click Edit

Contact Field-Level Security for profile **Sitecore Connect User** [Help for this Page](#) ?

[Edit](#) [Back to Profile](#)

Field Name	Field Type	Visible	Read-Only
Account Name	Lookup	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Assistant	Text	<input type="checkbox"/>	<input type="checkbox"/>

8. Ensure the "Visible" box is checked for the following fields and click Save:

- Is Approved
- Last Activity
- Last Login
- Last Password Changed
- Password
- Password Answer
- Password Question

Contact Field-Level Security for profile **Sitecore Connect User** [Help for this Page](#) ?

[Save](#) [Cancel](#)

Field Name	Field Type	Visible	Read-Only
Account Name	Lookup	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Assistant	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Home Phone	Phone	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is Approved	Checkbox	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Languages	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Last Activity	Date/Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other Phone	Phone	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Password	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Password Answer	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Password Question	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Phone	Phone	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Reports To	Lookup	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Title	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>

[Save](#) [Cancel](#)

Salesforce Connect User Guide

9. Click Back to Profile

Contact Field-Level Security for profile
Sitecore Connect User [Help for this Page](#)

[Edit](#) [Back to Profile](#)

Field Name	Field Type	Visible	Read-Only
Account Name	Lookup	<input checked="" type="checkbox"/>	<input type="checkbox"/>

2.1.5 Create a new user

This is the Salesforce user account that Sitecore will use to communicate with Salesforce.

1. Navigate to Manage Users > Users

salesforce Search... [Setup](#) [Help](#) [Sales](#)

Home Chatter Campaigns Leads Accounts Contacts Opportunities Forecasts Contracts Orders Cases Solutions Products +

Search All Setup... [Expand All](#) [Collapse All](#)

Salesforce1 Setup **New!**

Force.com Home

Administer

- ☒ **Manage Users**
 - Users
 - Mass Email Users
 - Roles
 - Permission Sets
- Profiles**
- Public Groups
- Queues
- Login History

Profile
Sitecore Connect User [Back to List: Profiles](#) [Help for this Page](#)

Users with this profile have the permissions and page layouts listed below. Administrators can change a user's profile by editing that user's personal information.

If your organization uses Record Types, use the Edit links in the Record Type Settings section below to make one or more record types available to users with this profile.

[Login IP Ranges \[0\]](#) | [Enabled Apex Class Access \[0\]](#) | [Enabled Visualforce Page Access \[0\]](#) | [Enabled External Data Source Access \[0\]](#) | [Enabled Service Presence Status Access \[0\]](#) | [Enabled Custom Permissions \[0\]](#)

Profile Detail [Edit](#) [Clone](#) [Delete](#) [View Users](#)

Name	User License	Custom Profile
Sitecore Connect User	Salesforce	<input checked="" type="checkbox"/>

Description

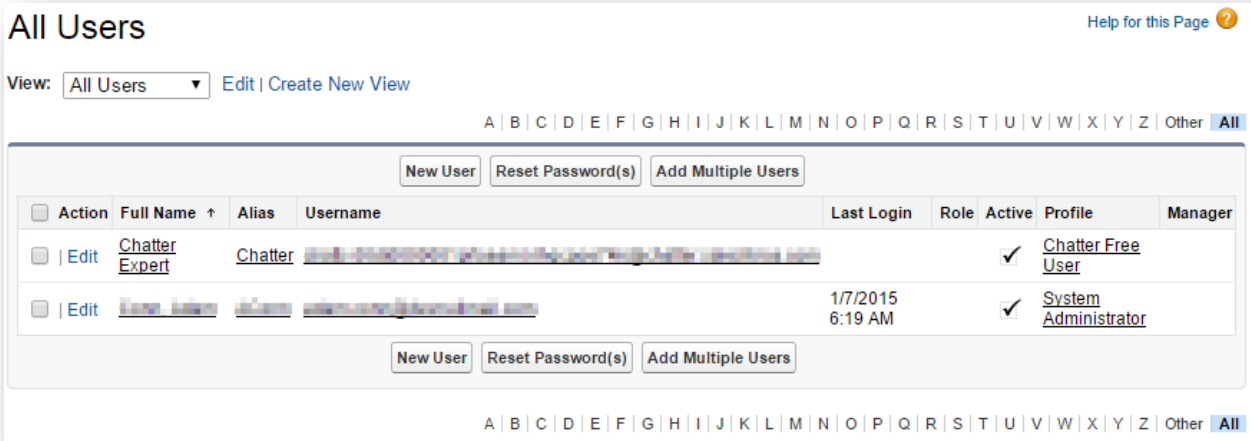
Created By [\[User\]](#) 1/7/2015 7:18 AM Modified By [\[User\]](#) 1/7/2015 7:47 AM

Console Settings

Console Layout [\[Edit\]](#)

Salesforce Connect User Guide

2. Click New User



All Users [Help for this Page ?](#)

View: **All Users** [Edit](#) | [Create New View](#)

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Other **All**

[New User](#) [Reset Password\(s\)](#) [Add Multiple Users](#)

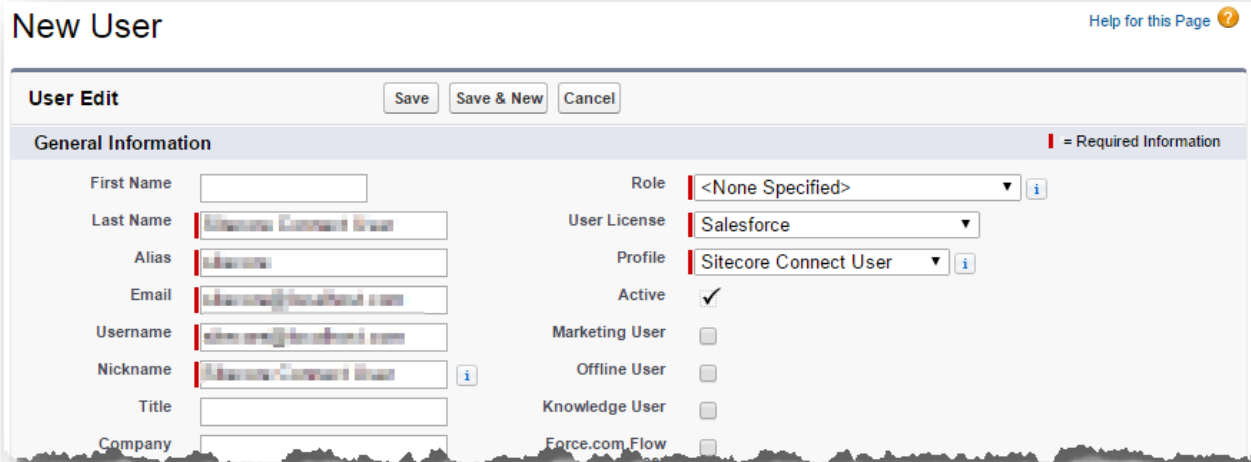
<input type="checkbox"/> Action	Full Name ↑	Alias	Username	Last Login	Role	Active	Profile	Manager
<input type="checkbox"/> Edit	Chatter Expert	Chatter	[redacted]			<input checked="" type="checkbox"/>	Chatter Free User	
<input type="checkbox"/> Edit	System Admin	System	[redacted]	1/7/2015 6:19 AM		<input checked="" type="checkbox"/>	System Administrator	

[New User](#) [Reset Password\(s\)](#) [Add Multiple Users](#)

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Other **All**

3. Enter values for the following fields and click Save

- Last Name: [any value]
- Alias: [any value]
- Email: [any value]
- Username: [any value]
- Nickname: [any value]
- Role: <None Specified>
- User License: Salesforce
- Profile: Sitecore Connect User



New User [Help for this Page ?](#)

User Edit [Save](#) [Save & New](#) [Cancel](#)

General Information | = Required Information

First Name

Last Name

Alias

Email

Username

Nickname [i](#)

Title

Company

Role [i](#)

User License

Profile [i](#)

Active ☒

Marketing User ☐

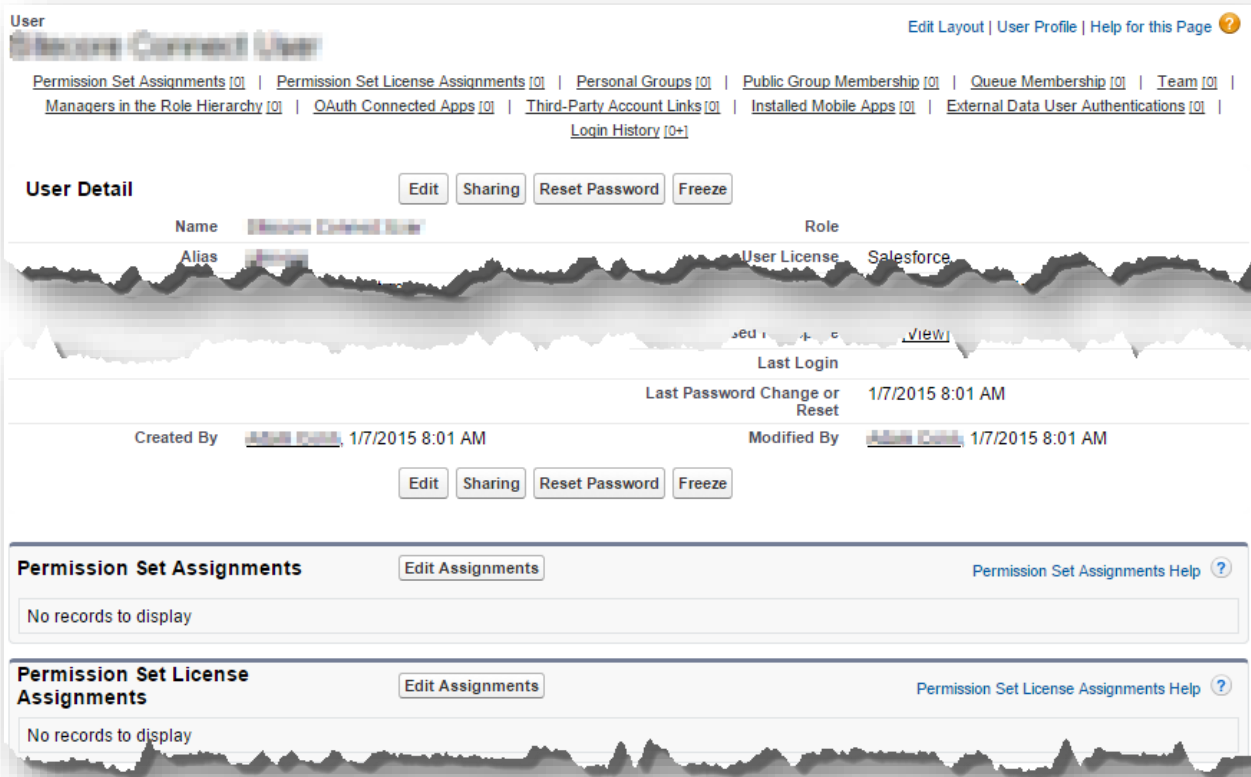
Offline User ☐

Knowledge User ☐

Force.com Flow ☐

Salesforce Connect User Guide

4. In the Permission Set Assignments section click Edit Assignments



User **Sitecore Connect User** [Edit Layout](#) | [User Profile](#) | [Help for this Page](#) ?

[Permission Set Assignments \[0\]](#) |
 [Permission Set License Assignments \[0\]](#) |
 [Personal Groups \[0\]](#) |
 [Public Group Membership \[0\]](#) |
 [Queue Membership \[0\]](#) |
 [Team \[0\]](#) |
 [Managers in the Role Hierarchy \[0\]](#) |
 [OAuth Connected Apps \[0\]](#) |
 [Third-Party Account Links \[0\]](#) |
 [Installed Mobile Apps \[0\]](#) |
 [External Data User Authentications \[0\]](#) |
 [Login History \[0+\]](#)

User Detail

[Edit](#) [Sharing](#) [Reset Password](#) [Freeze](#)

Name	Role
Alias	User License
	Salesforce

[View](#)

Last Login
 Last Password Change or Reset: 1/7/2015 8:01 AM

Created By: 1/7/2015 8:01 AM
 Modified By: 1/7/2015 8:01 AM

[Edit](#) [Sharing](#) [Reset Password](#) [Freeze](#)

Permission Set Assignments

[Edit Assignments](#) [Permission Set Assignments Help](#) ?

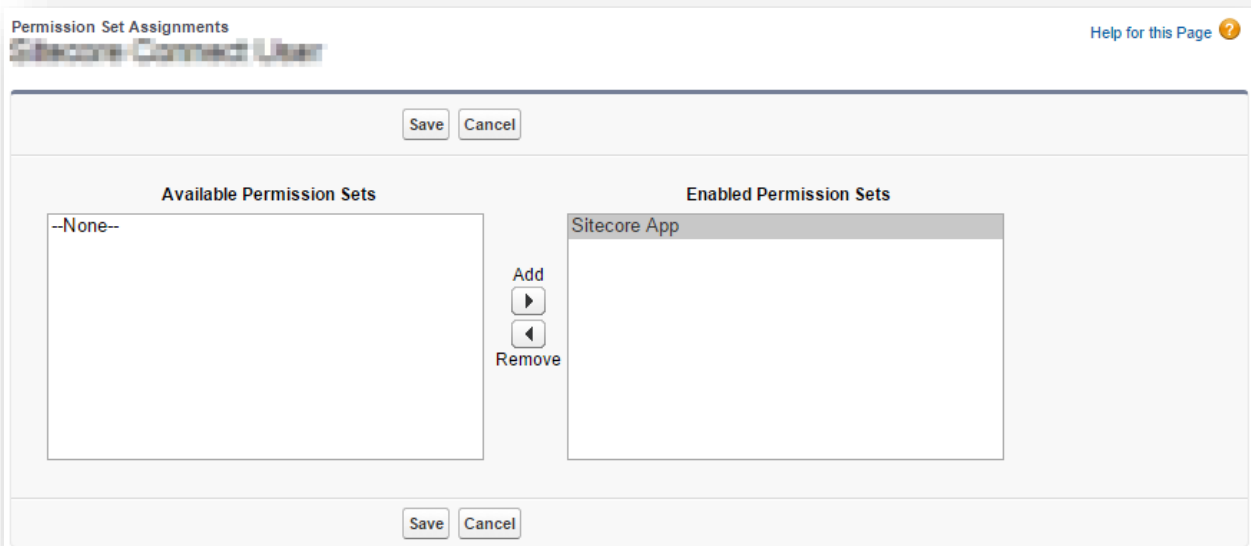
No records to display

Permission Set License Assignments

[Edit Assignments](#) [Permission Set License Assignments Help](#) ?

No records to display

5. Add the "Sitecore App" permission set and click Save



Permission Set Assignments **Sitecore Connect User** [Help for this Page](#) ?

[Save](#) [Cancel](#)

Available Permission Sets		Enabled Permission Sets
--None--	Add <input type="button" value="▶"/> Remove <input type="button" value="◀"/>	Sitecore App

[Save](#) [Cancel](#)

2.2 Sitecore configuration

This section describes the configuration that must be performed on Sitecore. An administrator for your Sitecore environment must follow these instructions.

2.2.1 Install the Sitecore package

Install the Sitecore installation package for Salesforce Connect.

2.2.2 Modify domains.config

Add the highlighted configuration:

```
<?xml version="1.0" encoding="utf-8"?>
<domains xmlns:sc="Sitecore">
  <domain name="sitecore" ensureAnonymousUser="false" />
  <domain name="extranet" />
  <domain name="default" isDefault="true" />
  <domain name="salesforce" AccountNameValidation="." ensureAnonymousUser="false"
defaultProfileItemID="{4F2D283A-1035-498F-8E66-B02EC5B816E0}" />
  <sc:templates>
    <domain type="Sitecore.Security.Domains.Domain, Sitecore.Kernel">
      <ensureAnonymousUser>true</ensureAnonymousUser>
      <locallyManaged>false</locallyManaged>
    </domain>
  </sc:templates>
</domains>
```

2.2.3 Modify web.config

Make the following changes to configuration > Sitecore:

```
<switchingProviders>
  <membership>
    <provider providerName="sql" storeFullNames="true" wildcard="%" domains="*" />
    <provider providerName="salesforce" storeFullNames="false" wildcard="%"
domains="salesforce" />
  </membership>
  <roleManager>
    <provider providerName="sql" storeFullNames="true" wildcard="%" domains="*"
ignoredUserDomains="" allowedUserDomains="" />
    <provider providerName="salesforce" storeFullNames="false" wildcard="%"
domains="salesforce" />
  </roleManager>
  <profile>
    <provider providerName="salesforce" storeFullNames="false" wildcard="%"
domains="salesforce" />
    <provider providerName="sql" storeFullNames="true" wildcard="%" domains="*"
ignoredDomains="" />
  </profile>
</switchingProviders>
```

Salesforce Connect User Guide

Make the following changes to configuration > system.web:

```
<membership defaultProvider="sitecore" hashAlgorithmType="SHA1">
  <providers>
    <clear />
    <add name="sitecore" type="Sitecore.Security.SitecoreMembershipProvider,
Sitecore.Kernel" realProviderName="switcher" providerWildcard="%" raiseEvents="true"
/>
    <add name="sql" type="System.Web.Security.SqlMembershipProvider"
connectionStringName="core" applicationName="sitecore" minRequiredPasswordLength="1"
minRequiredNonalphanumericCharacters="0" requiresQuestionAndAnswer="false"
requiresUniqueEmail="false" maxInvalidPasswordAttempts="256" />
    <add name="switcher" type="Sitecore.Security.SwitchingMembershipProvider,
Sitecore.Kernel" applicationName="sitecore" mappings="switchingProviders/membership"
/>
    <add name="salesforce"
type="Sitecore.Salesforce.Security.SalesforceMembershipProvider, Sitecore.Salesforce"
applicationName="sitecore" readOnly="false" enablePasswordReset="true"
minRequiredPasswordLength="1" passwordStrengthRegularExpression=".*"
minRequiredNonalphanumericCharacters="0" maxInvalidPasswordAttempts="5"
passwordAttemptWindow="0" requiresQuestionAndAnswer="false" requiresUniqueEmail="true"
/>
  </providers>
</membership>
<roleManager defaultProvider="sitecore" enabled="true">
  <providers>
    <clear />
    <add name="sitecore" type="Sitecore.Security.SitecoreRoleProvider,
Sitecore.Kernel" realProviderName="switcher" raiseEvents="true" />
    <add name="sql" type="System.Web.Security.SqlRoleProvider"
connectionStringName="core" applicationName="sitecore" />
    <add name="switcher" type="Sitecore.Security.SwitchingRoleProvider,
Sitecore.Kernel" applicationName="sitecore" mappings="switchingProviders/roleManager"
/>
    <add name="salesforce"
type="Sitecore.Salesforce.Security.SalesforceRoleProvider, Sitecore.Salesforce"
readOnly="false" applicationName="sitecore" />
  </providers>
</roleManager>
<profile defaultProvider="switcher" enabled="true"
inherits="Sitecore.Security.UserProfile, Sitecore.Kernel">
  <providers>
    <clear />
    <add name="salesforce"
type="Sitecore.Salesforce.Profile.SalesforceProfileProvider, Sitecore.Salesforce"
readOnly="false" />
    <add name="sql" type="System.Web.Profile.SqlProfileProvider"
connectionStringName="core" applicationName="sitecore" />
    <add name="switcher" type="Sitecore.Security.SwitchingProfileProvider,
Sitecore.Kernel" applicationName="sitecore" mappings="switchingProviders/profile" />
  </providers>
  <properties>
    <clear />
    <add type="System.String" name="SC_UserData" />
    <add type="System.String" name="FirstName"
customProviderData="salesforce:FirstName" />
    <add type="System.String" name="LastName"
customProviderData="salesforce:LastName" />
    <add type="System.String" name="JobTitle"
customProviderData="salesforce:Title" />
  </properties>
</profile>
```

Salesforce Connect User Guide

```
<add type="System.DateTime" name="Birthdate"
customProviderData="salesforce:Birthdate" />
<add type="System.String" name="Phone" customProviderData="salesforce:Phone"
/>
</properties>
</profile>
```

2.2.4 Modify Sitecore.Salesforce.config

Make the following changes.

1. Uncomment the following section: configuration > sitecore > salesforce > clients > client

```
<clients>
  <client provider="salesforce"
type="Sitecore.Salesforce.Client.SalesforceClient, Sitecore.Salesforce.Client"
singleInstance="true">
    <param desc="authenticator"
type="Sitecore.Salesforce.Client.Security.PasswordAuthenticator,
Sitecore.Salesforce.Client">
      <consumerKey></consumerKey>
      <consumerSecret></consumerSecret>
      <userName></userName>
      <password></password>
      <securityToken></securityToken>
    </param>
  </client>
</clients>
```

2. Enter the consumer key and consumer secret values for the connected app you configured in Salesforce. Those values can be located by:
 - a. Log into Salesforce as an administrator
 - b. Navigate to Build > Create > Apps > Connected Apps > Sitecore App
3. Enter the security token value for the Sitecore user you created in Salesforce. That value can be located by:
 - a. Log into Salesforce as the Sitecore user
 - b. Navigate to My Settings > Personal > Reset My Security Token
4. Navigate to the following section: configuration > sitecore > pipelines > submitContact

5. Ensure that the name of your domain is listed under the processor WriteSalesforceData.

This is a performance-related setting. It ensures that Sitecore only tries to save the Salesforce data to xDB for users in a Salesforce domain. (The alternative is to remove the domains element. This will result in Sitecore trying to save the Salesforce data for every user, whether or not the user is a member of a Salesforce domain.)

The following configuration shows two Salesforce domains being configured:

```
<pipelines>
  <submitContact>
    <processor
type="Sitecore.Salesforce.Pipelines.SubmitContact.WriteSalesforceData,
Sitecore.Salesforce">
      <salesforceFacet>Salesforce Data</salesforceFacet>
      <domains hint="list">
        <domain>salesforce1</domain>
        <domain>salesforce2</domain>
      </domains>
    </processor>
  </submitContact>
</pipelines>
```

2.2.5 Additional steps if using a Salesforce package namespace prefix

Only follow the instructions in this section if your Salesforce environment is configured to use a package namespace prefix.

The namespace prefix must be added to the names of the custom object and custom fields. The examples below are based on the namespace prefix being "abc".

Custom objects are defined under configuration > sitecore > salesforce > configurations > api > rolesApi

Node	Default value	Sample value with prefix
roleObjectName	SitecoreRole	adc_SitecoreRole
roleAssociationObjectName	SitecoreRoleAssociation	abc_SitecoreRoleAssociation

Custom fields are defined under configuration > sitecore > salesforce > configurations > fieldMapping

Node	Default value	Sample value with prefix
password	SC_Password__c	abc_SC_Password__c
passwordAnswer	SC_PasswordAnswer__c	abc_SC_PasswordAnswer__c
passwordQuestion	SC_PasswordQuestion__c	abc_SC_PasswordQuestion__c
isApproved	SC_IsApproved__c	abc_SC_IsApproved__c
lastLoginDate	SC_LastLogin__c	abc_SC_LastLogin__c
lastActivityDate	SC_LastActivity__c	abc_SC_LastActivity__c
lastPasswordChangedDate	SC_LastPasswordChanged__c	abc_SC_LastPasswordChanged__c

2.3 Upgrading from partial to full Salesforce support

This section describes how to upgrade an environment that is configured for partial Salesforce support to full Salesforce support.

This section assumes the environment was configured as described in Chapter 3.

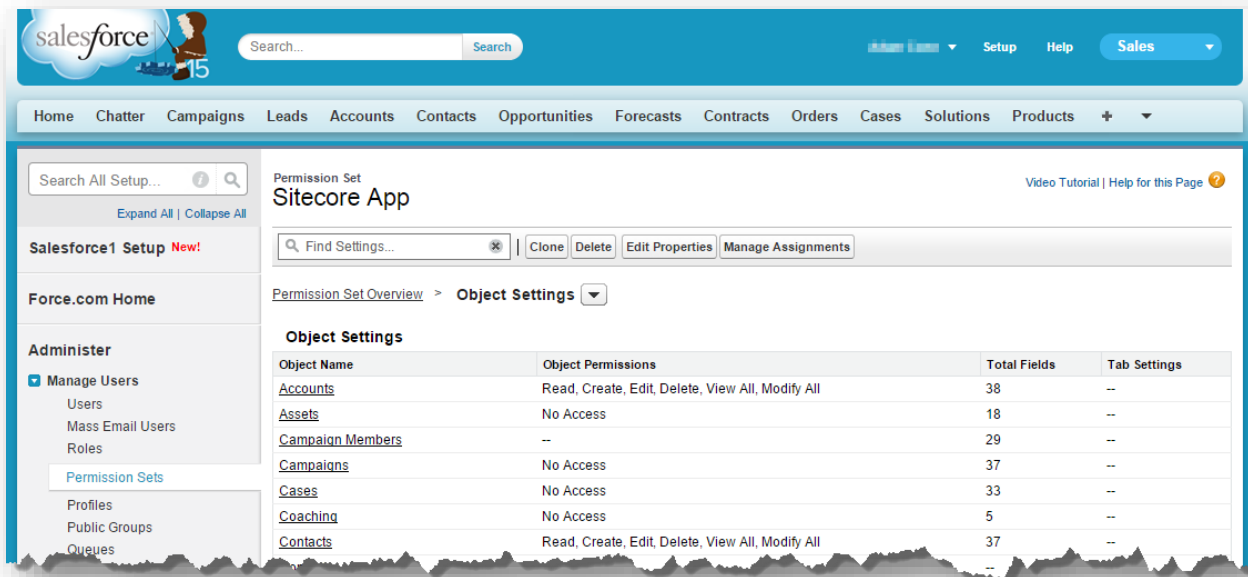
2.3.1 Install the Sitecore Salesforce package

Follow the steps in section 2.1.

2.3.2 Update Salesforce profile

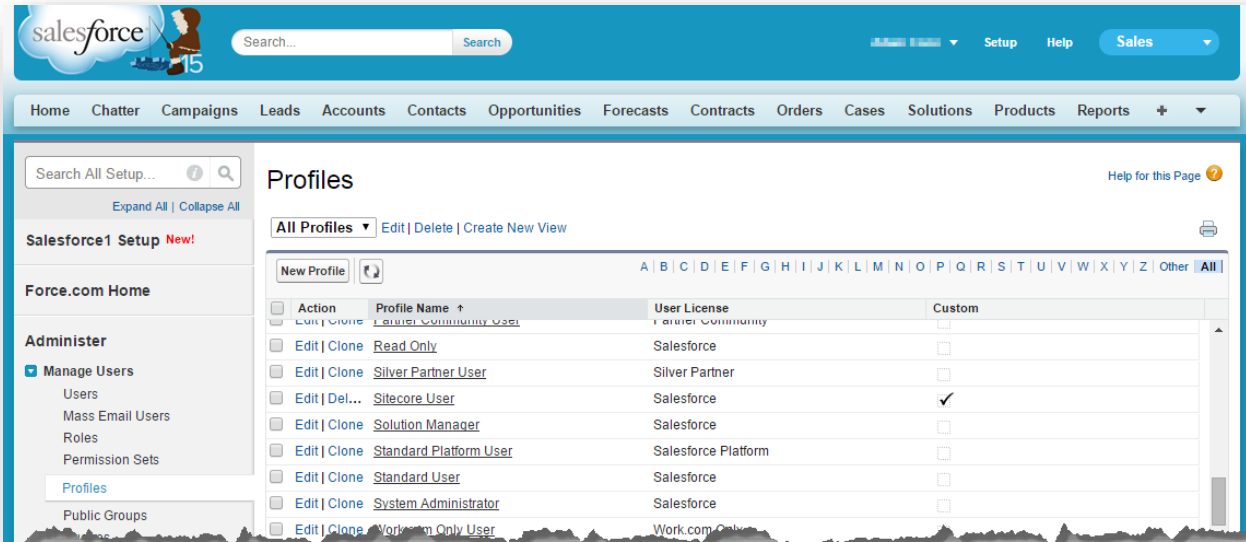
This profile represents a new type of Salesforce user that Sitecore uses to interact with Salesforce.

1. Navigate to Manage Users > Profiles



Salesforce Connect User Guide

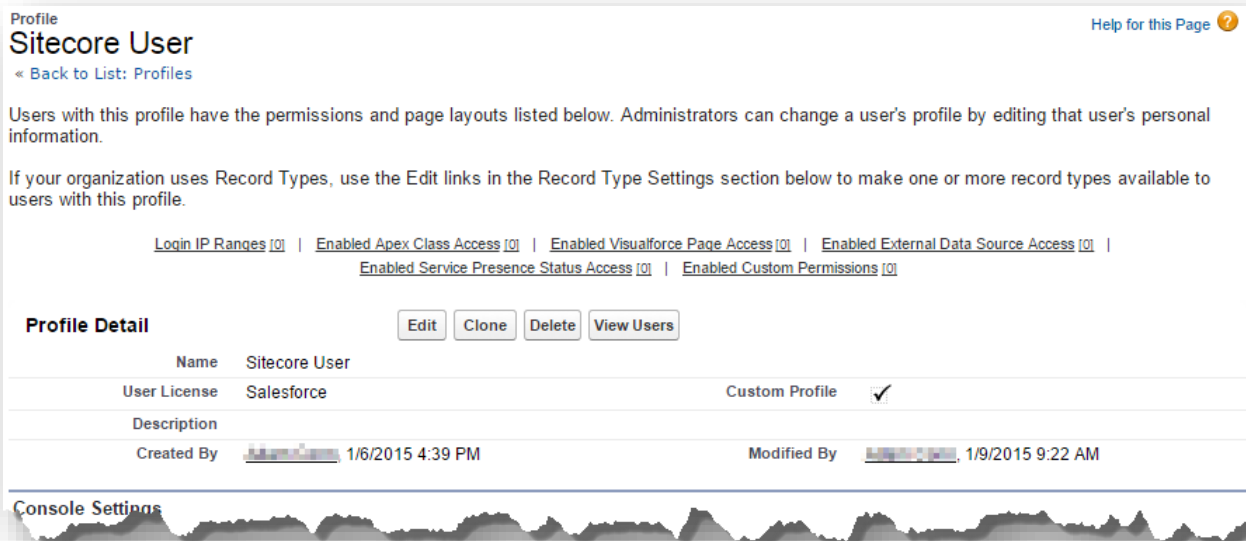
2. Click Sitecore User



The screenshot shows the Salesforce 'Profiles' page. The left sidebar contains navigation links: Home, Chatter, Campaigns, Leads, Accounts, Contacts, Opportunities, Forecasts, Contracts, Orders, Cases, Solutions, Products, Reports, and a search bar. Below these are links for 'Salesforce1 Setup', 'Force.com Home', and 'Administer'. The 'Administer' section is expanded, showing 'Manage Users' (Users, Mass Email Users, Roles, Permission Sets) and 'Profiles'. The main content area is titled 'Profiles' and includes a search bar, a 'New Profile' button, and a table of existing profiles. The table has columns for 'Action', 'Profile Name', 'User License', and 'Custom'. The 'Sitecore User' profile is highlighted.

Action	Profile Name	User License	Custom
Edit Clone	Partner Community User	Partner Community	<input type="checkbox"/>
Edit Clone	Read Only	Salesforce	<input type="checkbox"/>
Edit Clone	Silver Partner User	Silver Partner	<input type="checkbox"/>
Edit Del...	Sitecore User	Salesforce	<input checked="" type="checkbox"/>
Edit Clone	Solution Manager	Salesforce	<input type="checkbox"/>
Edit Clone	Standard Platform User	Salesforce Platform	<input type="checkbox"/>
Edit Clone	Standard User	Salesforce	<input type="checkbox"/>
Edit Clone	System Administrator	Salesforce	<input type="checkbox"/>
Edit Clone	Work.com Only User	Work.com Only	<input type="checkbox"/>

3. Click Edit



The screenshot shows the 'Sitecore User' profile page. The page title is 'Profile Sitecore User'. Below the title is a 'Back to List: Profiles' link. The main content area contains a description of the profile and a list of permissions. The 'Profile Detail' section includes buttons for 'Edit', 'Clone', 'Delete', and 'View Users'. The 'User License' is 'Salesforce' and the 'Custom Profile' checkbox is checked. The 'Created By' and 'Modified By' fields are also visible.

Profile Detail

Name	Sitecore User
User License	Salesforce
Description	
Created By	1/6/2015 4:39 PM
Modified By	1/9/2015 9:22 AM

Salesforce Connect User Guide

4. Set the following permissions and click Save
 - a. Custom Object Permissions
 - i. Sitecore Roles: Read, Create, Edit, Delete, View All, Modify All
 - ii. Sitecore Role Associations: Read, Create, Edit, Delete, View All, Modify All

Profile Edit
Sitecore Connect User

Set the permissions and page layouts for this profile.

Profile Edit [Save] [Cancel]

Name: Sitecore Connect User
User License: Salesforce
Custom Profile: ☒

Sitecore Roles: Tab Hidden

Administrative Permissions

<input type="checkbox"/> Access Chatter For SharePoint	<input type="checkbox"/> Manage Knowledge Article Import/Export
<input type="checkbox"/> Edit Read Only Fields	<input type="checkbox"/> Manage Unlisted Groups
<input checked="" type="checkbox"/> Invite Customers To Chatter	<input checked="" type="checkbox"/> Manage Users
<input type="checkbox"/> IP Restrict Requests	<input type="checkbox"/> Moderate Chatter
<input type="checkbox"/> Manage Auth. Providers	<input type="checkbox"/> Modify All Data
<input type="checkbox"/> Manage Roles	<input type="checkbox"/> Show Help Link
<input type="checkbox"/> Manage System Configurations	<input type="checkbox"/> View Reports in Public Folders
<input checked="" type="checkbox"/> Manage Internal Users	<input checked="" type="checkbox"/> View Setup and Configuration
<input checked="" type="checkbox"/> Manage IP Addresses	

General User Permissions

☐ Activate Console ☐ Custom Field ☐ Dashboards

Standard Object Permissions

The permissions defined here control access at the object level. Access to individual records within that object type is controlled by the sharing model. Set access levels based on the functional requirements for the profile. For example, create different groups of permissions for individual contributors, managers, and administrators. [How do I choose?](#)

Basic Access						Data Administration		Basic Access						Data Administration	
Read	Create	Edit	Delete	View All	Modify All			Read	Create	Edit	Delete	View All	Modify All		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Accounts								Goals							
Assets								Goal Collaborators							
Campaigns								Goal Links							
Cases								Ideas							
Coaching								Leads							
Contacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Macros							
Contracts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Opportunities							

Custom Object Permissions

Basic Access						Data Administration		Basic Access						Data Administration	
Read	Create	Edit	Delete	View All	Modify All			Read	Create	Edit	Delete	View All	Modify All		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Sitecore Roles								Sitecore Role Associations							

Desktop Integration Clients

Salesforce Connect User Guide

5. Navigate to Field-Level Security > Contact > View

Profile
[Help for this Page ?](#)

Sitecore Connect User

[« Back to List: Profiles](#)

Users with this profile have the permissions and page layouts listed below. Administrators can change a user's profile by editing that user's personal information.

If your organization uses Record Types, use the Edit links in the Record Type Settings section below to make one or more record types available to users with this profile.

[Login IP Ranges \[0\]](#) |
 [Enabled Apex Class Access \[0\]](#) |
 [Enabled Visualforce Page Access \[0\]](#) |
 [Enabled External Data Source Access \[0\]](#) |
 [Enabled Service Presence Status Access \[0\]](#) |
 [Enabled Custom Permissions \[0\]](#)

Profile Detail
[Edit](#)
[Clone](#)
[Delete](#)
[View Users](#)

Name	Sitecore Connect User		
User License	Salesforce	Custom Profile	<input checked="" type="checkbox"/>
Description			

[\[View Assignments \]](#)
[\[View Assignments \]](#)

Field-Level Security

Standard Field-Level Security			
Account	[View]	Idea	[View]
Asset	[View]	Lead	[View]
Campaign	[View]	Macro	[View]
Campaign Member	[View]	Opportunity	[View]
Case	[View]	Opportunity Product	[View]
Coaching	[View]	Order	[View]
Contact	[View]	Order Product	[View]
Contract	[View]	Performance Cycle	[View]
Event	[View]	Price Book	[View]
Feedback	[View]	Price Book Entry	[View]
Feedback Question	[View]	Product	[View]
Feedback Question Set	[View]	Social Persona	[View]
Feedback Request	[View]	Solution	[View]
Goal	[View]	Task	[View]
Goal Collaborator	[View]	User	[View]
Goal Link	[View]		
Custom Field-Level Security			
Sitecore Role	[View]	Sitecore Role Association	[View]

Salesforce Connect User Guide

6. Click Edit

Contact Field-Level Security for profile **Sitecore Connect User** [Help for this Page](#) ?

[Edit](#) [Back to Profile](#)

Field Name	Field Type	Visible	Read-Only
Account Name	Lookup	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Assistant	Text	<input type="checkbox"/>	<input type="checkbox"/>

7. Ensure the "Visible" box is checked for the following fields and click Save:

- Is Approved
- Last Activity
- Last Login
- Last Password Changed
- Password
- Password Answer
- Password Question

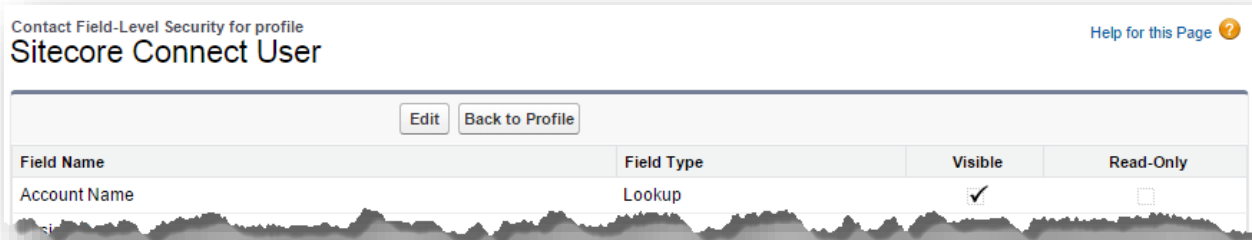
Contact Field-Level Security for profile **Sitecore Connect User** [Help for this Page](#) ?

[Save](#) [Cancel](#)

Field Name	Field Type	Visible	Read-Only
Account Name	Lookup	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Assistant	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Home Phone	Phone	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is Approved	Checkbox	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Languages	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Last Activity	Date/Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other Phone	Phone	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Password	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Password Answer	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Password Question	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Phone	Phone	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Reports To	Lookup	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Title	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>

[Save](#) [Cancel](#)

8. Click Back to Profile



2.3.3 Modify web.config

Make the following changes to configuration > Sitecore:

```
<switchingProviders>
  <membership>
    <provider providerName="sql" storeFullNames="true" wildcard="%" domains="*" />
    <provider providerName="salesforce" storeFullNames="false" wildcard="%"
domains="salesforce" />
  </membership>
  <roleManager>
    <provider providerName="sql" storeFullNames="true" wildcard="%" domains="*"
ignoredUserDomains="" allowedUserDomains="" />
    <provider providerName="salesforce" storeFullNames="false" wildcard="%"
domains="salesforce" />
  </roleManager>
  <profile>
    <provider providerName="salesforce" storeFullNames="false" wildcard="%"
domains="salesforce" />
    <provider providerName="sql" storeFullNames="true" wildcard="%" domains="*"
ignoredDomains="" />
  </profile>
</switchingProviders>
```

Make the following changes to configuration > system.web > roleManager:

```
<roleManager defaultProvider="sitecore" enabled="true">
  <providers>
    <clear />
    <add name="sitecore" type="Sitecore.Security.SitecoreRoleProvider,
Sitecore.Kernel" realProviderName="switcher" raiseEvents="true" />
    <add name="sql" type="System.Web.Security.SqlRoleProvider"
connectionStringName="core" applicationName="sitecore" />
    <add name="switcher" type="Sitecore.Security.SwitchingRoleProvider,
Sitecore.Kernel" applicationName="sitecore" mappings="switchingProviders/roleManager"
/>
    <add name="salesforce"
type="Sitecore.Security.SalesforceRoleProvider, Sitecore.Salesforce"
readOnly="false" applicationName="sitecore" />
  </providers>
</roleManager>
```

2.3.4 Modify Sitecore.Salesforce.config

Make the following changes to configuration > sitecore> salesforce > configurations > fieldMapping:

```
<fieldMapping type="Sitecore.Salesforce.Configuration.SalesforceFieldMapping,
Sitecore.Salesforce">
  <id>Id</id>
  <login>Email</login>
  <email>Email</email>
  <description>Description</description>
  <password>SC_Password__c</password>
  <passwordAnswer>SC_PasswordAnswer__c</passwordAnswer>
  <passwordQuestion>SC_PasswordQuestion__c</passwordQuestion>
  <isApproved>SC_IsApproved__c</isApproved>
  <isLockedOut></isLockedOut>
  <createdDate>CreatedDate</createdDate>
  <lastLoginDate>SC_LastLogin__c</lastLoginDate>
  <lastActivityDate>SC_LastActivity__c</lastActivityDate>
  <lastPasswordChangedDate>SC_LastPasswordChanged__c</lastPasswordChangedDate>
</fieldMapping>
```

If your Salesforce environment is configured with a package namespace prefix you must also follow the steps in section 2.2.5.

Chapter 3 Partial Salesforce support installation

This chapter describes how to install Salesforce Connect with partial Salesforce support.

3.1 Salesforce configuration

This section describes the configuration that must be performed on Salesforce. An administrator for your Salesforce environment must follow these instructions.

3.1.1 Create a new connected app for Sitecore

Follow the steps in section 2.1.2.

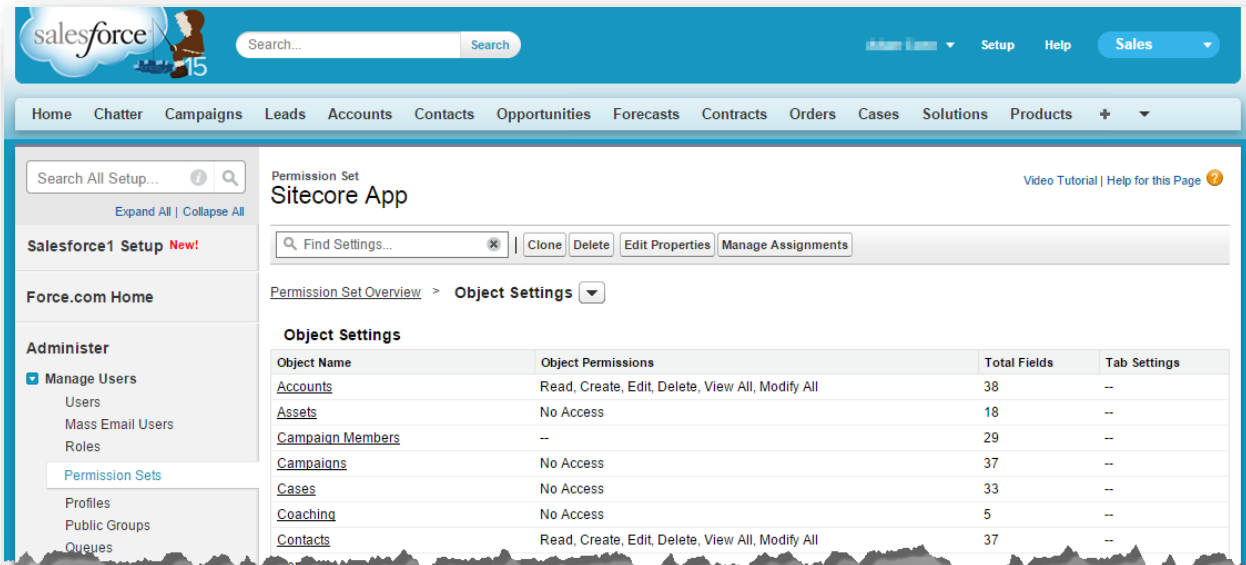
3.1.2 Create a new permission set

Follow the steps in section 2.1.3.

3.1.3 Create a new profile

This profile represents a new type of Salesforce user that Sitecore uses to interact with Salesforce.

1. Navigate to Manage Users > Profiles

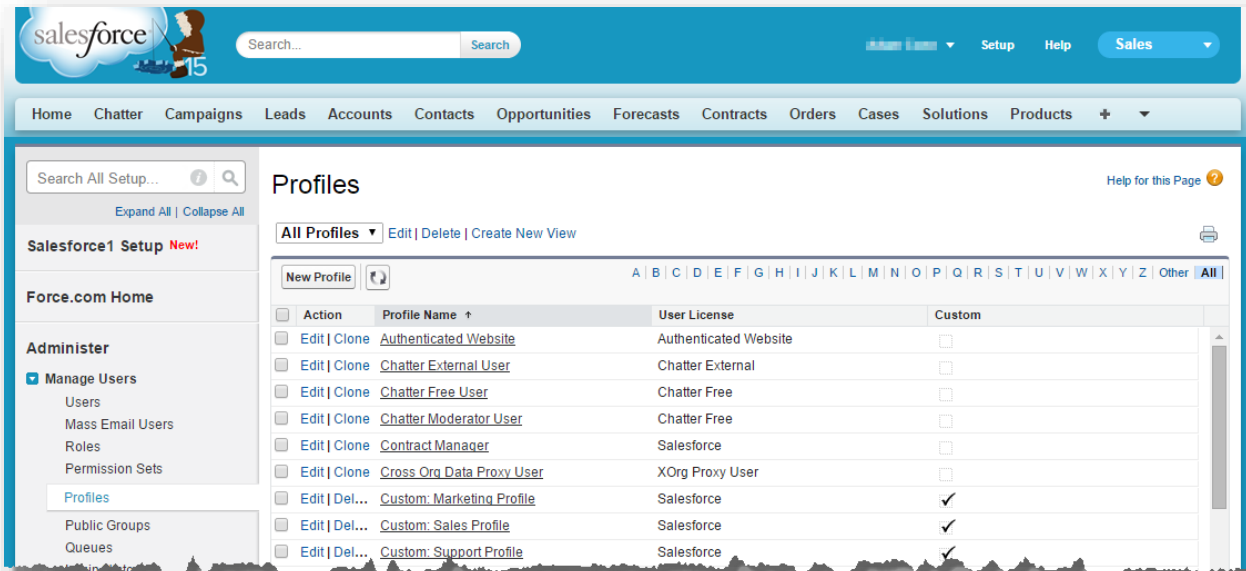


The screenshot shows the Salesforce Setup interface. The left sidebar contains navigation links: Home, Chatter, Campaigns, Leads, Accounts, Contacts, Opportunities, Forecasts, Contracts, Orders, Cases, Solutions, Products, and a search bar. The main content area is titled 'Permission Set: Sitecore App'. It includes a search bar, buttons for 'Clone', 'Delete', 'Edit Properties', and 'Manage Assignments'. Below this is a table titled 'Object Settings' with columns for 'Object Name', 'Object Permissions', 'Total Fields', and 'Tab Settings'.

Object Name	Object Permissions	Total Fields	Tab Settings
Accounts	Read, Create, Edit, Delete, View All, Modify All	38	--
Assets	No Access	18	--
Campaign Members	--	29	--
Campaigns	No Access	37	--
Cases	No Access	33	--
Coaching	No Access	5	--
Contacts	Read, Create, Edit, Delete, View All, Modify All	37	--

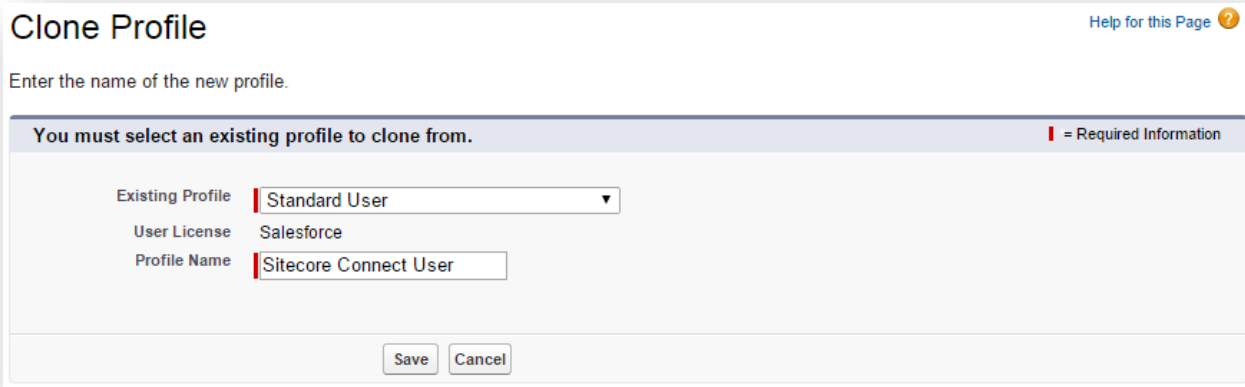
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2. Click New Profile



3. Enter values for the following fields and click Save

- a. Existing Profile: Standard User
- b. Profile Name: Sitecore Connect User



Clone Profile Help for this Page ?

Enter the name of the new profile.

You must select an existing profile to clone from. ! = Required Information

Existing Profile ! Standard User ▼

User License Salesforce

Profile Name ! Sitecore Connect User

Save Cancel

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4. Click Edit

Profile
[Help for this Page ?](#)

Sitecore Connect User

[« Back to List: Connected Apps](#)

Users with this profile have the permissions and page layouts listed below. Administrators can change a user's profile by editing that user's personal information.

If your organization uses Record Types, use the Edit links in the Record Type Settings section below to make one or more record types available to users with this profile.

[Login IP Ranges \[0\]](#) |
 [Enabled Apex Class Access \[0\]](#) |
 [Enabled Visualforce Page Access \[0\]](#) |
 [Enabled External Data Source Access \[0\]](#) |
 [Enabled Service Presence Status Access \[0\]](#) |
 [Enabled Custom Permissions \[0\]](#)

Profile Detail

Edit
Clone
Delete
View Users

Name	Sitecore Connect User		
User License	Salesforce	Custom Profile	<input checked="" type="checkbox"/>
Description			

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5. Set the following permissions and click Save
 - a. Administrative Permissions
 - i. Manage Users
 - ii. View Setup and Configuration
 - b. Standard Objects Permissions
 - i. Contacts: Read, Edit, Delete, View All, Modify All

Profile Edit
Sitecore Connect User [Help for this Page](#)

Set the permissions and page layouts for this profile.

Profile Edit

Name: Sitecore Connect User
User License: Salesforce
Description:
Custom Profile: ☒
Sitecore Roles: Tab Hidden

Administrative Permissions

<input type="checkbox"/> Access Chatter For SharePoint	<input type="checkbox"/> Manage Knowledge Article Import/Export
<input type="checkbox"/> Edit Read Only Fields	<input type="checkbox"/> Manage Unlisted Groups
<input checked="" type="checkbox"/> Invite Customers To Chatter	<input checked="" type="checkbox"/> Manage Users
<input type="checkbox"/> IP Restrict Requests	<input type="checkbox"/> Moderate Chatter
<input type="checkbox"/> Manage Auth. Providers	<input type="checkbox"/> Modify All Data
<input type="checkbox"/> Manage Billings	<input type="checkbox"/> View Reports in Public Folders
<input type="checkbox"/> Manage Custom Page Configurations	<input checked="" type="checkbox"/> View Setup and Configuration
<input checked="" type="checkbox"/> Manage Internal Users	
<input checked="" type="checkbox"/> Manage IP Addresses	

General User Permissions

☐ Activate Content ☐ Custom Field ☐ Dashboards

Standard Object Permissions

The permissions defined here control access at the object level. Access to individual records within that object type is controlled by the sharing model. Set access levels based on the functional requirements for the profile. For example, create different groups of permissions for individual contributors, managers, and administrators. [How do I choose?](#)

	Basic Access				Data Administration			Basic Access				Data Administration	
	Read	Create	Edit	Delete	View All	Modify All		Read	Create	Edit	Delete	View All	Modify All
Accounts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Goals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Goal Collaborators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Campaigns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Goal Links	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ideas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coaching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Contacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Macros	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Contracts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Opportunities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.1.4 Create a new user

Follow the steps in section 2.1.5.

3.2 Sitecore configuration

This section describes the configuration that must be performed on Sitecore. An administrator for your Sitecore environment must follow these instructions.

3.2.1 Install the Sitecore package

Follow the steps in section 2.2.1.

3.2.2 Modify domains.config

Follow the steps in section 2.2.2.

3.2.3 Modify web.config

Make the following changes to configuration > Sitecore:

```
<switchingProviders>
  <membership>
    <provider providerName="sql" storeFullNames="true" wildcard="%" domains="" />
    <provider providerName="salesforce" storeFullNames="false" wildcard="%"
domains="salesforce" />
  </membership>
  <profile>
    <provider providerName="salesforce" storeFullNames="false" wildcard="%"
domains="salesforce" />
    <provider providerName="sql" storeFullNames="true" wildcard="%" domains=""
ignoredDomains="" />
  </profile>
</switchingProviders>
```

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Make the following changes to configuration > system.web:

```
<membership defaultProvider="sitecore" hashAlgorithmType="SHA1">
  <providers>
    <clear />
    <add name="sitecore" type="Sitecore.Security.SitecoreMembershipProvider,
Sitecore.Kernel" realProviderName="switcher" providerWildcard="%" raiseEvents="true"
/>
    <add name="sql" type="System.Web.Security.SqlMembershipProvider"
connectionStringName="core" applicationName="sitecore" minRequiredPasswordLength="1"
minRequiredNonalphanumericCharacters="0" requiresQuestionAndAnswer="false"
requiresUniqueEmail="false" maxInvalidPasswordAttempts="256" />
    <add name="switcher" type="Sitecore.Security.SwitchingMembershipProvider,
Sitecore.Kernel" applicationName="sitecore" mappings="switchingProviders/membership"
/>
    <add name="salesforce"
type="Sitecore.Salesforce.Security.SalesforceMembershipProvider, Sitecore.Salesforce"
applicationName="sitecore" readOnly="false" enablePasswordReset="true"
minRequiredPasswordLength="1" passwordStrengthRegularExpression=".*"
minRequiredNonalphanumericCharacters="0" maxInvalidPasswordAttempts="5"
passwordAttemptWindow="0" requiresQuestionAndAnswer="false" requiresUniqueEmail="true"
/>
  </providers>
</membership>
<profile defaultProvider="switcher" enabled="true"
inherits="Sitecore.Security.UserProfile, Sitecore.Kernel">
  <providers>
    <clear />
    <add name="salesforce"
type="Sitecore.Salesforce.Profile.SalesforceProfileProvider, Sitecore.Salesforce"
readOnly="false" />
    <add name="sql" type="System.Web.Profile.SqlProfileProvider"
connectionStringName="core" applicationName="sitecore" />
    <add name="switcher" type="Sitecore.Security.SwitchingProfileProvider,
Sitecore.Kernel" applicationName="sitecore" mappings="switchingProviders/profile" />
  </providers>
  <properties>
    <clear />
    <add type="System.String" name="SC_UserData" />
    <add type="System.String" name="FirstName"
customProviderData="salesforce:FirstName" />
    <add type="System.String" name="LastName"
customProviderData="salesforce:LastName" />
    <add type="System.String" name="JobTitle"
customProviderData="salesforce:Title" />
    <add type="System.DateTime" name="Birthdate"
customProviderData="salesforce:Birthdate" />
    <add type="System.String" name="Phone" customProviderData="salesforce:Phone"
/>
  </properties>
</profile>
```

3.2.4 Modify Sitecore.Salesforce.config

Make the following changes.

1. Uncomment the following section: configuration > Sitecore > salesforce > clients > client

```
<clients>
  <client provider="salesforce"
type="Sitecore.Salesforce.Client.SalesforceClient, Sitecore.Salesforce.Client"
singleInstance="true">
    <param desc="authenticator"
type="Sitecore.Salesforce.Client.Security.PasswordAuthenticator,
Sitecore.Salesforce.Client">
      <consumerKey></consumerKey>
      <consumerSecret></consumerSecret>
      <userName></userName>
      <password></password>
      <securityToken></securityToken>
    </param>
  </client>
</clients>
```

2. Enter the consumer key and consumer secret values for the connected app you configured in Salesforce. Those values can be located by:
 - a. Log into Salesforce as an administrator
 - b. Navigate to Build > Create > Apps > Connected Apps > Sitecore App
3. Enter the security token value for the Sitecore user you created in Salesforce. That value can be located by:
 - a. Log into Salesforce as the Sitecore user
 - b. Navigate to My Settings > Personal > Reset My Security Token
4. Make the following changes to configuration > sitecore> salesforce > configurations > fieldMapping:

```
<fieldMapping
type="Sitecore.Salesforce.Configuration.SalesforceFieldMapping, Sitecore.Salesforce">
  <id>Id</id>
  <login>Email</login>
  <email>Email</email>
  <description>Description</description>
  <password></password>
  <passwordAnswer></passwordAnswer>
  <passwordQuestion></passwordQuestion>
  <isApproved></isApproved>
  <isLockedOut></isLockedOut>
  <createdDate>CreatedDate</createdDate>
  <lastLoginDate></lastLoginDate>
  <lastActivityDate></lastActivityDate>
  <lastPasswordChangedDate></lastPasswordChangedDate>
</fieldMapping>
```

Chapter 4 Using Salesforce Connect

This chapter describes how to use Salesforce Connect.

4.1 Mapping Salesforce objects to Sitecore users

Salesforce Connect uses ASP.NET membership components to expose Salesforce entities as Sitecore users.

4.1.1 Membership provider

The membership provider is responsible for interacting with Salesforce objects and representing those objects as Sitecore users.

By default Salesforce Connect reads all contacts from Salesforce. This behavior can be changed. For example, an alternate objects may represent what should be exposed as Sitecore users.

The mapping of the Salesforce objects to the Sitecore user model is defined in the Sitecore.Salesforce.config file in the following section:

configuration > sitecore > salesforce > configurations > configuration > api > contactsApi

4.1.2 Role provider

The role provider is responsible for determining which roles a Sitecore user is a member of.

By default Salesforce Connect uses the SitecoreRole object in Salesforce to determine which roles a Sitecore user is a member of. This object is populated when Sitecore users are added to roles using the Sitecore User Manager or the Sitecore API.

Note:

The SitecoreRole object is a custom object that is added to your Salesforce environment when the Salesforce package is installed. This explains why the role provider is not used with partial Salesforce support mode.

If a different means for associating roles to a user is required the default behavior can be changed. In this case a custom IRolesApi implemented is required. This is configured in the Sitecore.Salesforce.config file in the following section:

configuration > sitecore > salesforce > configurations > configuration > api > rolesApi

4.1.3 Profile provider

The profile provider is responsible for populating the Sitecore user's profile.

The mapping of Salesforce properties to the Sitecore user profile is defined in web.config in the following section:

configuration > system.web > profile > properties

By default the following properties are mapped from Salesforce to the Sitecore user profile:

Salesforce contact field	Sitecore user property
FirstName	FirstName
LastName	LastName
Title	JobTitle
BirthDate	Birthdate
Phone	Phone

4.1.4 Caching

In order to minimize the number of Salesforce API calls that are made Salesforce Connect uses caches to store data that is read from Salesforce. The caches are defined in the Sitecore.Salesforce.config file in the following section:

configuration > sitecore > salesforce > configurations > configuration > api

4.2 Experience Database integration

This section describes how Salesforce Connect integrates Salesforce data with the Sitecore Experience Database (xDB).

4.2.1 Contact Facet

Salesforce Connect stores Salesforce contact data in xDB through a contact facet named "Salesforce Data". This contact facet is defined in the Sitecore.Salesforce.config file.

Note:

Salesforce Connect does not include an extension to display Salesforce data in the Sitecore Experience Profile (xProfile). The Salesforce data is in the xDB but that data will not appear in the xProfile.

4.3 Configuring multiple Salesforce accounts

This section describes how to integrate multiple Salesforce accounts with a single Sitecore server.

4.3.1 Modify domains.config

Each Salesforce account requires a unique domain in Sitecore. This is configured in the domains.config file. The following is an example of two domains being defined for two Salesforce accounts:

```
<?xml version="1.0" encoding="utf-8"?>
<domains xmlns:sc="Sitecore">
  <domain name="sitecore" ensureAnonymousUser="false" />
  <domain name="extranet" />
  <domain name="default" isDefault="true" />
  <domain name="salesforce1" AccountNameValidation="."+" ensureAnonymousUser="false"
defaultProfileItemID="{4F2D283A-1035-498F-8E66-B02EC5B816E0}" />
  <domain name="salesforce2" AccountNameValidation="."+" ensureAnonymousUser="false"
defaultProfileItemID="{4F2D283A-1035-498F-8E66-B02EC5B816E0}" />
  <sc:templates>
    <domain type="Sitecore.Security.Domains.Domain, Sitecore.Kernel">
      <ensureAnonymousUser>true</ensureAnonymousUser>
      <locallyManaged>>false</locallyManaged>
    </domain>
  </sc:templates>
</domains>
```

4.3.2 Modify Sitecore.Salesforce.config

Each Salesforce account requires a unique Salesforce provider in Sitecore. This is configured in the Sitecore.Salesforce.config file.

The following is an example of two providers being defined for two Salesforce accounts. This is configured in the section configuration > sitecore > salesforce:

```
<salesforceManager defaultProvider="salesforce1">
  <providers>
    <clear/>
    <add name="salesforce1" type="Sitecore.Salesforce.SalesforceProvider,
Sitecore.Salesforce"/>
    <add name="salesforce2" type="Sitecore.Salesforce.SalesforceProvider,
Sitecore.Salesforce"/>
  </providers>
</salesforceManager>

<clients>
  <client provider="salesforce1" type="Sitecore.Salesforce.Client.SalesforceClient,
Sitecore.Salesforce.Client" singleInstance="true">
    <param desc="authenticator"
type="Sitecore.Salesforce.Client.Security.PasswordAuthenticator,
Sitecore.Salesforce.Client">
      <consumerKey>#####</consumerKey>
      <consumerSecret>#####</consumerSecret>
      <userName>#####</userName>
      <password>#####</password>
      <securityToken>#####</securityToken>
    </param>
    <rateLimitWaiting>120</rateLimitWaiting>
  </client>
```

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```
<client provider="salesforce2" type="Sitecore.Salesforce.Client.SalesforceClient,
Sitecore.Salesforce.Client" singleInstance="true">
  <param desc="authenticator"
type="Sitecore.Salesforce.Client.Security.PasswordAuthenticator,
Sitecore.Salesforce.Client">
    <consumerKey>#####</consumerKey>
    <consumerSecret>#####</consumerSecret>
    <userName>#####</userName>
    <password>#####</password>
    <securityToken>#####</securityToken>
  </param>
  <rateLimitWaiting>120</rateLimitWaiting>
</client>
</clients>

<configurations>
  <configuration default="true" provider="salesforce1"
type="Sitecore.Salesforce.Configuration.SalesforceConfiguration, Sitecore.Salesforce">
    <param desc="name">$(provider)</param>
    <client ref="salesforce/clients/*[@provider='$(provider)'] [1]" />
    ...
  </configuration>
  <configuration default="true" provider="salesforce2"
type="Sitecore.Salesforce.Configuration.SalesforceConfiguration, Sitecore.Salesforce">
    <param desc="name">$(provider)</param>
    <client ref="salesforce/clients/*[@provider='$(provider)'] [1]" />
    ...
  </configuration>
</configurations>
```

4.3.3 Modify web.config

Web.config must be updated to handle the two Salesforce providers.

The following is an example of

The following is an example of the configuration from the section configuration > sitecore:

```
<switchingProviders>
  <membership>
    <provider providerName="sql" storeFullNames="true" wildcard="%" domains="*" />
    <provider providerName="salesforce1" storeFullNames="false" wildcard="%"
domains="salesforce" />
    <provider providerName="salesforce2" storeFullNames="false" wildcard="%"
domains="salesforce" />
  </membership>
  <roleManager>
    <provider providerName="sql" storeFullNames="true" wildcard="%" domains="*"
ignoredUserDomains="" allowedUserDomains="" />
    <provider providerName="salesforce1" storeFullNames="false" wildcard="%"
domains="salesforce" />
    <provider providerName="salesforce2" storeFullNames="false" wildcard="%"
domains="salesforce" />
  </roleManager>
  <profile>
    <provider providerName="salesforce1" storeFullNames="false" wildcard="%"
domains="salesforce" />
    <provider providerName="salesforce2" storeFullNames="false" wildcard="%"
domains="salesforce" />
  </profile>
</switchingProviders>
```

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```
<provider providerName="sql" storeFullNames="true" wildcard="%" domains="*"
ignoredDomains="" />
</profile>
</switchingProviders>
```

The following is an example of the configuration from the section configuration > system.web > roleManager:

```
<membership defaultProvider="sitecore" hashAlgorithmType="SHA1">
  <providers>
    <clear />
    <add name="sitecore" type="Sitecore.Security.SitecoreMembershipProvider,
Sitecore.Kernel" realProviderName="switcher" providerWildcard="%" raiseEvents="true"
/>
    <add name="sql" type="System.Web.Security.SqlMembershipProvider"
connectionStringName="core" applicationName="sitecore" minRequiredPasswordLength="1"
minRequiredNonalphanumericCharacters="0" requiresQuestionAndAnswer="false"
requiresUniqueEmail="false" maxInvalidPasswordAttempts="256" />
    <add name="switcher" type="Sitecore.Security.SwitchingMembershipProvider,
Sitecore.Kernel" applicationName="sitecore" mappings="switchingProviders/membership"
/>
    <add name="salesforce1"
type="Sitecore.Salesforce.Security.SalesforceMembershipProvider, Sitecore.Salesforce"
applicationName="sitecore" readOnly="false" enablePasswordReset="true"
minRequiredPasswordLength="1" passwordStrengthRegularExpression=".*"
minRequiredNonalphanumericCharacters="0" maxInvalidPasswordAttempts="5"
passwordAttemptWindow="0" requiresQuestionAndAnswer="false" requiresUniqueEmail="true"
/>
    <add name="salesforce2"
type="Sitecore.Salesforce.Security.SalesforceMembershipProvider, Sitecore.Salesforce"
applicationName="sitecore" readOnly="false" enablePasswordReset="true"
minRequiredPasswordLength="1" passwordStrengthRegularExpression=".*"
minRequiredNonalphanumericCharacters="0" maxInvalidPasswordAttempts="5"
passwordAttemptWindow="0" requiresQuestionAndAnswer="false" requiresUniqueEmail="true"
/>
  </providers>
</membership>
<roleManager defaultProvider="sitecore" enabled="true">
  <providers>
    <clear />
    <add name="sitecore" type="Sitecore.Security.SitecoreRoleProvider,
Sitecore.Kernel" realProviderName="switcher" raiseEvents="true" />
    <add name="sql" type="System.Web.Security.SqlRoleProvider"
connectionStringName="core" applicationName="sitecore" />
    <add name="switcher" type="Sitecore.Security.SwitchingRoleProvider,
Sitecore.Kernel" applicationName="sitecore" mappings="switchingProviders/roleManager"
/>
    <add name="salesforce1"
type="Sitecore.Salesforce.Security.SalesforceRoleProvider, Sitecore.Salesforce"
readOnly="false" applicationName="sitecore" />
    <add name="salesforce2"
type="Sitecore.Salesforce.Security.SalesforceRoleProvider, Sitecore.Salesforce"
readOnly="false" applicationName="sitecore" />
  </providers>
</roleManager>
<profile defaultProvider="switcher" enabled="true"
inherits="Sitecore.Security.UserProfile, Sitecore.Kernel">
  <providers>
    <clear />
```

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```
<add name="salesforce1"
type="Sitecore.Salesforce.Profile.SalesforceProfileProvider, Sitecore.Salesforce"
readOnly="false" />
<add name="salesforce2"
type="Sitecore.Salesforce.Profile.SalesforceProfileProvider, Sitecore.Salesforce"
readOnly="false" />
<add name="sql" type="System.Web.Profile.SqlProfileProvider"
connectionStringName="core" applicationName="sitecore" />
<add name="switcher" type="Sitecore.Security.SwitchingProfileProvider,
Sitecore.Kernel" applicationName="sitecore" mappings="switchingProviders/profile" />
</providers>
<properties>
<clear />
<add type="System.String" name="SC_UserData" />
<add type="System.String" name="FirstName"
customProviderData="salesforce1:FirstName|salesforce2:FirstName" />
<add type="System.String" name="LastName"
customProviderData="salesforce1:LastName|salesforce2:LastName" />
<add type="System.String" name="JobTitle"
customProviderData="salesforce1:Title|salesforce2:Title" />
<add type="System.DateTime" name="Birthdate"
customProviderData="salesforce1:Birthdate|salesforce2:Birthdate" />
<add type="System.String" name="Phone"
customProviderData="salesforce1:Phone|salesforce2:Phone" />
</properties>
</profile>
```

Chapter 5 Troubleshooting

This chapter describes how to troubleshoot Salesforce Connect.

5.1 Authentication

This section describes common errors that may occur when trying to authenticate a Salesforce contact using Sitecore.

5.1.1 Authenticating from Sitecore

Attempting to use Sitecore to authenticate a Salesforce contact results in the following exception:

```
Exception: Sitecore.Salesforce.Client.Exceptions.SalesforceException
Message:
Id = '003j0000006pcVsAAI' AND   = 'jEEaie1thG8GTtDezbo6hX8NFmc='
^

ERROR at Row:1:Column:60
unexpected token: '='
Source: Sitecore.Salesforce.Client
    at Sitecore.Salesforce.Client.SalesforceClient.HttpGet[T](String resource)
    at Sitecore.Salesforce.Api.ContactsApi.CheckHashedFieldEquality(String userId, String
fieldName, String value)
    at Sitecore.Salesforce.Security.SalesforceMembershipProvider.ValidateUser(String
username, String password)
    at Sitecore.Data.Providers.NullRetryer.Execute[T](Func`1 action, Action recover)
    at Sitecore.Security.SitecoreMembershipProvider.ValidateUser(String username, String
password)
    at
System.Web.UI.WebControls.Login.AuthenticateUsingMembershipProvider(AuthenticateEventArgs e)
    at System.Web.UI.WebControls.Login.AttemptLogin()
    at System.Web.UI.WebControls.Login.OnBubbleEvent(Object source, EventArgs e)
    at System.Web.UI.Control.RaiseBubbleEvent(Object source, EventArgs args)
    at System.Web.UI.Page.ProcessRequestMain(Boolean includeStagesBeforeAsyncPoint,
Boolean includeStagesAfterAsyncPoint)
```

The following options are available to fix this exception:

- A. Do not attempt to authenticate Salesforce contacts when partial Salesforce support is configured.
- B. Configure full Salesforce support.

5.1.2 Reset password on Salesforce contact

Salesforce contacts that are created by Salesforce will not have a password set. In order for those contacts to be able to log into Sitecore a password must be set.

Note:

This functionality is only available when using full Salesforce support. Partial Salesforce support does not support authentication.

The password is stored on a custom field on the Salesforce contact. The default field name is SC_Password__c.

Note:

The field name will be different if the Salesforce environment is configured to use a package namespace prefix. See section 2.2.5 for more information.

The field value must be encrypted using SHA-1. The following C# code demonstrates how you can generate the field value that must be saved in the Salesforce contact's password field.

```
var password = "xxx123";
var managed = new System.Security.Cryptography.SHA1Managed();
var bytes = System.Text.Encoding.UTF8.GetBytes(password);
var hashedPassword = System.Convert.ToBase64String(managed.ComputeHash(bytes));
```


5.2 Sitecore user management

This section describes common errors that may occur when trying to manage a Salesforce contact using the Sitecore User Manager.

5.2.1 User creation

When using the Sitecore User Manager to create a new user results in the following exception:

```
Exception: System.ArgumentException
Message: An item with the same key has already been added.
Source: mscorlib
    at System.Collections.Generic.Dictionary`2.Insert(TKey key, TValue value, Boolean add)
    at Sitecore.Salesforce.Security.SalesforceMembershipProvider.CreateUser(String
username, String password, String email, String passwordQuestion, String passwordAnswer, Boolean
isApproved, Object providerUserKey, MembershipCreateStatus& status)
    at Sitecore.Security.SwitchingMembershipProvider.CreateUser(String userName, String
password, String email, String passwordQuestion, String passwordAnswer, Boolean isApproved,
Object providerUserKey, MembershipCreateStatus& status)
    at Sitecore.Security.SitecoreMembershipProvider.<>c__DisplayClass9.<CreateUser>b__8()
    at Sitecore.Data.DataProviders.NullRetryer.Execute[T](Func`1 action, Action recover)
    at Sitecore.Security.SitecoreMembershipProvider.CreateUser(String username, String
password, String email, String passwordQuestion, String passwordAnswer, Boolean isApproved,
Object providerUserKey, MembershipCreateStatus& status)
    at System.Web.UI.WebControls.CreateUserWizard.AttemptCreateUser()
    at
System.Web.UI.WebControls.CreateUserWizard.OnNextButtonClick(WizardNavigationEventArgs e)
    at System.Web.UI.WebControls.Wizard.OnBubbleEvent(Object source, EventArgs e)
    at System.Web.UI.Control.RaiseBubbleEvent(Object source, EventArgs args)
    at System.Web.UI.Page.ProcessRequestMain(Boolean includeStagesBeforeAsyncPoint,
Boolean includeStagesAfterAsyncPoint)
```

The following options are available to fix this exception:

- A. Do not attempt to authenticate Salesforce contacts when partial Salesforce support is configured.
- B. Configure full Salesforce support.