SuiteCloud IDE Plug-in for WebStorm Guide
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SuiteCloud IDE Plug-in for WebStorm Overview

SuiteCloud IDE plug-in for WebStorm is an integrated development environment (IDE) that is packaged for NetSuite platform development. It provides a user interface for SuiteCloud Development Framework (SDF). SDF is a development framework and deployment mechanism.

You can download SuiteCloud IDE plug-in for WebStorm as a plug-in installation, develop SDF projects, and deploy them to your account.

From an SDF project in the WebStorm plug-in, you can do the following:

- Manage multiple NetSuite domains and accounts.
- Import custom objects from account.
- Upload files and folders to the NetSuite File Cabinet.
- Compare files or objects with the NetSuite version.
- Set a master password for each project.
- Access NetSuite menus at the file folder and project level to select context menu actions. For example, you can add dependencies to the manifest, validate against account, deploy to account, and change project settings.
- View SDF logs in the IDE plug-in Tool Window.

Note: An SDF project can be either an account customization project type or a SuiteApp project type.

To learn more and start using the WebStorm plug-in, see the following topics:

- Installing and Setting Up SuiteCloud IDE Plug-in for WebStorm
- SuiteCloud IDE Plug-in for WebStorm Usage

UI Interface of SuiteCloud IDE Plug-in for WebStorm

SuiteCloud IDE plug-in for WebStorm is a custom plug-in added to WebStorm. After you install it, the menus and toolbars you need for managing and working with SuiteCloud projects and resources are accessible within the IDE plug-in.

When you open an SDF project, the UI consists of an editor area, tabs, and tool windows that you use as you work with your SuiteCloud projects.
The following table lists the elements of the WebStorm plug-in interface:

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1. File Menu | From the File menu, you can do the following and more:  
- Create new SDF projects  
- Open, rename, or save projects.  
- Check for plug-in updates by opening Settings  
For more information, see the WebStorm product help. |
| 2. NetSuite Menu | Use the NetSuite menu to manage your domains, accounts, and project settings. You can also change, revoke, or reset the master password.  
The Outline view displays the organizational structure of your source file that is active in the editor area. In general, it lists the structural elements of your source file by function.  
For more information, see SuiteCloud IDE Plug-in for WebStorm Usage. |
| 3. SuiteCloud IDE Tool Window | The IDE plug-in tool window displays the hierarchical view of your SDF projects (their folders and files) and resources.  
You can hover over the project folder to see the path where the project is located.  
From the top-left of the screen, click Project to minimize or maximize the window.  
For more information, see the Project tool window topic in the WebStorm product help. |
| 4. Editor Area | The Editor area displays the source file editors you can use for your code.  
For more information, see the Editors topic in the WebStorm product help. |
| 5. SuiteScript Libraries | SuiteScript 1.0 and SuiteScript 2.0 API libraries are automatically included in an SDF project to support code completion for both SuiteScript versions. If you do not need code completion for a particular SuiteScript version, you can delete the file from the project.  
For more information, see Using SuiteScript Code Completion in SuiteCloud IDE Plug-in for WebStorm. |
<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDF Logs</td>
<td>SDF Logs display the output, including any errors and warnings found, during SDF project validation or deployment. From the bottom-left of the screen, click the IDE plug-in to minimize or maximize the window.</td>
</tr>
<tr>
<td>Event Log</td>
<td>The Event Log displays a summary of requests and actions. For example, if you upload a file from a project, when SDF has finished attempting the operation, the log displays the following: Uploading files done. From the bottom-right of the screen, click Event Log to minimize or maximize the window.</td>
</tr>
<tr>
<td>Progress View</td>
<td>The Progress view displays the progress of all your upload or download actions.</td>
</tr>
</tbody>
</table>
Installing and Setting Up SuiteCloud IDE Plug-in for WebStorm

SuiteCloud IDE plug-in for WebStorm is installed from within the WebStorm client. After you download and install WebStorm, you can add the IDE plug-in update site to the list of software updates.

Installation of SuiteCloud IDE Plug-in for WebStorm

Follow these steps to install the WebStorm plug-in:


2. **(Optional) Configure your account.**
   - Configuring NetSuite for SuiteScript if you are using SuiteScript.
   - Enabling SDF in Your NetSuite Account (Admin Only) if you are using SuiteCloud Development Framework.

3. **Download WebStorm.** See Downloading WebStorm.

4. **Add the SuiteCloud IDE Update Site.** See Adding the SuiteCloud IDE Plug-in to WebStorm.

**Important:** The version of the WebStorm plug-in must match the version of your account to avoid the risk of compatibility errors.

For information about the WebStorm plug-in features, see SuiteCloud IDE Plug-in for WebStorm Overview.

Setup for SuiteCloud IDE Plug-in for WebStorm

After installing the WebStorm plug-in, follow these steps to complete your setup:

1. **Create or open an SDF project.** See Creating an Account Customization Project in SuiteCloud IDE Plug-in for WebStorm or Creating a SuiteApp Project in SuiteCloud IDE Plug-in for WebStorm.

2. **Set a master password.** See SuiteCloud IDE Plug-in for WebStorm Master Password Setup.

3. **Add your production and sandbox URLs.** See Adding a Domain in SuiteCloud IDE Plug-in for WebStorm.

4. **Connect to your accounts and roles.** See Adding an Account in SuiteCloud IDE Plug-in for WebStorm.

5. **(Optional) Manage authentication.** If you want to use an administrator role, set up login for token-based authentication (TBA). See Managing Token-based Authentication in an Account using SuiteCloud IDE Plug-in for WebStorm.

**Note:** To set up a different SuiteScript development environment instead of the IDE plug-in, see the help topic Working with IDEs Other Than SuiteCloud IDE Plug-ins.

Installing SuiteCloud IDE Plug-in for WebStorm

The following topics guide you through WebStorm and the IDE plug-in installation:
Installation Requirements for SuiteCloud IDE Plug-in for WebStorm

Verify the following prerequisites before you install and use WebStorm with the IDE plug-in:

- **Operating system and browser** — Verify that the operating system version that you want to use with the WebStorm plug-in is supported. See Supported Operating Systems for SuiteCloud IDE Plug-in for WebStorm.
- **Java Runtime Environment (JRE)** — The IDE plug-in requires JRE version 1.8. Note: JRE 1.8 is bundled with the WebStorm distribution. You do not need to install Java on your computer to run WebStorm.
- **64-bit requirements** — To properly run the 64-bit version of the WebStorm plug-in, make sure your operating system and Java versions are both 64-bit versions.
- **Two-factor authentication setup** — If you want to use an administrator role and any other role that requires 2FA for SDF development, the SuiteCloud Development Integration bundle must be installed to the account. For more information about using a role requiring 2FA for SDF development, see Managing Token-based Authentication in an Account using SuiteCloud IDE Plug-in for WebStorm.
- **Web services enabled** — Make sure SuiteTalk (Web Services) is enabled in the NetSuite account. See the help topic Enabling SDF in Your NetSuite Account (Admin Only).
- **Account** — Your WebStorm plug-in version should match the version of your account. You may experience compatibility issues by using an older version of the WebStorm plug-in with the latest version of NetSuite.
- **WebStorm version** — The WebStorm plug-in requires version 2018.2.5.

Supported Operating Systems for SuiteCloud IDE Plug-in for WebStorm

The IDE plug-in can be used on Windows, Mac OS, and Linux.

It has been tested with the following operating systems using WebStorm 2018.2.5:

- Windows 10
- Ubuntu 18.04.01
- Mac OS High Sierra 10.13.6

Downloading WebStorm

For supported versions of WebStorm for the IDE plug-in, see Installation Requirements for SuiteCloud IDE Plug-in for WebStorm.

1. Download WebStorm for your operating system at https://www.jetbrains.com/webstorm/.
2. Run the file you downloaded and follow the prompts to complete installation.
Next you must add the **SuiteCloud IDE Update site**. For more information, see Adding the SuiteCloud IDE Plug-in to WebStorm.

## Adding the SuiteCloud IDE Plug-in to WebStorm

The WebStorm plug-in is installed to WebStorm as a custom plug-in. You need to download the IDE plug-in package from the SuiteCloud IDE update site. Complete the following tasks:

1. **Add the SuiteCloud IDE Plug-in for WebStorm Update Site.**
2. **Update SuiteCloud IDE Plug-in for WebStorm.**
3. **Verify the Installation of SuiteCloud IDE Plug-in for WebStorm.**

**Important:** When your account is upgraded, your instance of the IDE plug-in does not get updated automatically. After your account upgrade, you must manually update the WebStorm plug-in to match the version of your account. You may experience compatibility issues by using an older version of the WebStorm plug-in with the latest version of NetSuite.

### Add the SuiteCloud IDE Plug-in for WebStorm Update Site

When you add the SuiteCloud IDE update site to WebStorm, you can download the latest version of the IDE plug-in that is compatible with your NetSuite account as a custom plug-in. Installing the WebStorm plug-in enables you to access the IDE plug-in and SDF options on your WebStorm client.

**To add the update site in SuiteCloud IDE Plug-in for WebStorm:**

1. Launch WebStorm.
2. Depending on your operation system, do one of the following:
   - If you are using a Windows OS, select **File > Settings**.
   - If you are using a Mac OS, select **WebStorm > Preferences**.
3. Select **Plugins > Browse repositories...**
4. Select **Manage repositories...**
5. To add the SuiteCloud IDE plug-in update site, in the Repository URL field, enter the following:
   
   `https://system.netsuite.com/download/suitecloud-sdk/ideplugin/webstorm/19.1/updatePlugins.xml`

6. Select **OK**.
7. Click on the com.netsuite.ide.webstorm.app plugin that appears. Click **Install**.
8. Restart WebStorm.

### Update SuiteCloud IDE Plug-in for WebStorm

**To update SuiteCloud IDE Plug-in for WebStorm:**

1. Launch WebStorm.
2. Depending on your operation system, do one of the following:
   - If you are using a Windows OS, select **Help > Check for Updates...**
   - If you are using a Mac OS, select **WebStorm > Check for Updates...**

**To manually update SuiteCloud IDE Plug-in for WebStorm:**

1. Launch WebStorm.
2. Depending on your operation system, do one of the following:
Installing SuiteCloud IDE Plug-in for WebStorm

If you are using a Windows OS, select File > Settings.
If you are using a Mac OS, select WebStorm > Preferences.
3. Select Plugins.
4. Set the Show field to Custom.
5. In the list, click SuiteCloud IDE for WebStorm.
   If an update is available, the Update button appears.
6. Click Update.
7. Restart WebStorm.

Verify the Installation of SuiteCloud IDE Plug-in for WebStorm

When you install SuiteCloud IDE plug-in for WebStorm, information about the NetSuite SuiteCloud IDE version is added. You can verify this installation information at any time.

To verify the installation of SuiteCloud IDE plug-in for WebStorm:

1. Launch WebStorm.
2. Depending on your operation system, do one of the following:
   ▪ If you are using a Windows OS, select File > Settings.
   ▪ If you are using a Mac OS, select WebStorm > Preferences.
3. Select Plugins.
4. In the list, click SuiteCloud IDE for WebStorm.
   The WebStorm plug-in version information is displayed.
Setting Up SuiteCloud IDE Plug-in for WebStorm

See the following topics to set up SuiteCloud IDE plug-in for WebStorm for creating SDF projects:

- SuiteCloud IDE Plug-in for WebStorm Master Password Setup
- SuiteCloud IDE Plug-in for WebStorm Domain Setup
- SuiteCloud IDE Plug-in for WebStorm Account Setup
- Managing Token-based Authentication in an Account using SuiteCloud IDE Plug-in for WebStorm

SuiteCloud IDE Plug-in for WebStorm Master Password Setup

SuiteCloud IDE plug-in for WebStorm stores all of your account login information every time you add a project. To prevent unauthorized account changes, you must set up a master password.

**Note:** Your IDE plug-in master password is not your NetSuite password. It is used to ensure that the data in your IDE plug-in remains secure.

To upload a project, download a project, or interact with your NetSuite account, you must authenticate your master password once per session.

Your master password not only protects all of your account login information, but it also saves you from entering different passwords for different accounts when you have multiple NetSuite accounts.

See the following procedures for working with the master password:

- Setting a SuiteCloud IDE Plug-in for WebStorm Master Password
- Authenticating a SuiteCloud IDE Plug-in for WebStorm Master Password
- Revoking a SuiteCloud IDE Plug-in for WebStorm Master Password
- Changing a SuiteCloud IDE Plug-in for WebStorm Master Password
- Resetting a SuiteCloud IDE Plug-in for WebStorm Master Password

### Setting a SuiteCloud IDE Plug-in for WebStorm Master Password

Password length must be 7 to 16 characters.

1. From WebStorm, select **NetSuite > Master Password > Set Master Password**.
2. In the Set Master Password window, enter the following information: **New Master Password** and **Re-enter New Master Password**.
3. Click **OK**.

### Authenticating a SuiteCloud IDE Plug-in for WebStorm Master Password

To upload a project, download a project, or interact with your NetSuite account, you must authenticate your master password once per session.
1. In WebStorm, select **NetSuite > Master Password > Authenticate Master Password**.
2. Enter the master password.
3. Click **OK**.

The keyboard shortcut to open the Authenticate Master Password window is **Ctrl+Alt+A**. The shortcut works only when the password has not been authenticated in the session.

### Revoking a SuiteCloud IDE Plug-in for WebStorm Master Password

You can revoke your master password to avoid accidental or unauthorized interaction with your NetSuite account. For example, if someone else needs to look at your IDE plug-in editor to do a peer review of your code, you can revoke your master password to protect your NetSuite accounts.

Revoking a master password only logs you out. It does not delete the master password.

1. In WebStorm, select **NetSuite > Master Password > Revoke Master Password**.
2. After the Revoke Master Password window appears, click **OK**.

### Changing a SuiteCloud IDE Plug-in for WebStorm Master Password

You can change a master password if you know the current password. If you do not remember your master password, see **Resetting a SuiteCloud IDE Plug-in for WebStorm Master Password**.

1. In WebStorm, select **NetSuite > Master Password > Change Password**.
2. Enter the following information: **Old Master Password**, **New Master Password**, and **Re-enter New Master Password**.
3. Click **OK**.

### Resetting a SuiteCloud IDE Plug-in for WebStorm Master Password

If you forgot your master password, you must reset your master password and account information. For security reasons, there is no way for you to retrieve your master password.

**Note:** A password reset removes connection to any associated NetSuite accounts. You must set up your IDE plug-in domains and accounts again.

1. In WebStorm, select **NetSuite > Troubleshoot > Reset Master Password and Account Info**.
   
   A message appears warning you that the WebStorm plug-in will be restarted and that your master password and all of your account information will be deleted.

2. Click **OK**.
   
   The WebStorm plug-in restarts with your project still intact but your master password and account info deleted.

3. Re-add your master password and account info. For more information, see **Setting a SuiteCloud IDE Plug-in for WebStorm Master Password** and **SuiteCloud IDE Plug-in for WebStorm Account Setup**.
SuiteCloud IDE Plug-in for WebStorm Domain Setup

After setting up your master password, you can set up a NetSuite domain in which to run your customizations. The predefined NetSuite domains in the WebStorm plug-in are:

- Production
- Sandbox

To set up a domain, see the following procedures:

- Adding a Domain in SuiteCloud IDE Plug-in for WebStorm
- Modifying a Domain in SuiteCloud IDE Plug-in for WebStorm
- Removing a Domain in SuiteCloud IDE Plug-in for WebStorm

Adding a Domain in SuiteCloud IDE Plug-in for WebStorm

You can set up the domains that include the accounts you want to add. You can choose NetSuite domains with accounts associated with your Production or Sandbox accounts.

1. In WebStorm, select NetSuite > Manage Domains.
2. From the Manage Domains window, click Add (+).
3. From the New Domain window, enter information for the URL field.

   Note: If you do not know the correct URL to use for a particular URL, see the help topic URLs for Account-Specific Domains.

4. Click OK and then Close.

Modifying a Domain in SuiteCloud IDE Plug-in for WebStorm

You can change the domain name or point to its updated URL.

Note: To edit or remove the URL for a domain, any accounts associated with the domain in the WebStorm plug-in must be removed. See Removing an Account in SuiteCloud IDE Plug-in for WebStorm.

1. In WebStorm, select NetSuite > Manage Domains.
2. In the Domains list, select the domain that you want to edit.
3. Click Edit (✓).
4. From the Edit Domain window, modify the information in the URL field.

   Note: If you do not know the correct URL to use for a particular environment, see the help topic URLs for Account-Specific Domains.

5. Click OK and then Close.

Removing a Domain in SuiteCloud IDE Plug-in for WebStorm

You can remove domains from the IDE plug-in, such as unused domains you no longer need.
Setting Up SuiteCloud IDE Plug-in for WebStorm

1. In WebStorm, select NetSuite > Manage Domains.
2. In the Domains list, select the domain that you want to remove.
3. From the Manage Domains window, click Remove (🗑).
4. From the Remove Domain window, click OK.
5. Click Close.

SuiteCloud IDE Plug-in for WebStorm Account Setup

After setting up your master password, you need to set up the NetSuite accounts you will be customizing.

If you have set up domains in addition to the default NetSuite domains, you need to configure account-specific details for these additional domains you added.

To set up an account, see the following procedures:

- Adding an Account in SuiteCloud IDE Plug-in for WebStorm
- Removing a Domain in SuiteCloud IDE Plug-in for WebStorm

Adding an Account in SuiteCloud IDE Plug-in for WebStorm

Use the following steps to add an account. The WebStorm plug-in passes your account information to NetSuite during the IDE plug-in authentication process.

**Important:** Ensure that the NetSuite accounts you add comply with NetSuite password requirements regarding the special characters you can use. For more information, see the help topic NetSuite Password Requirements.

1. In WebStorm, select NetSuite > Manage Accounts.
2. Click Add (➕).
3. In the URL field, select the domain.
4. In the Email field, enter the Email associated with the NetSuite role.
5. In the Password field, enter the NetSuite password associated with the email address.
6. Click Next.
7. To select the account(s) you want to add, click Select All (.selectAll), or click Deselect All (deselectAll) and then select what you need.
8. Click Finish. The Manage Accounts window opens with your added accounts.
   - Existing accounts are maintained. Newly-found accounts are added when you select and add them.
9. Click Close.

When you change your NetSuite password, you must add your accounts again using your latest NetSuite login credentials. However, the IDE plug-in automatically prompts you to enter your latest login credentials if you have updated your login credentials but have not re-added your accounts in the IDE plug-in.

Removing an Account in SuiteCloud IDE Plug-in for WebStorm

You can remove inactive or unused accounts that you no longer need.
Note: If you want to modify a domain in the IDE plug-in, you must first remove the associated accounts associated with a domain.

1. In WebStorm, select **NetSuite > Manage Accounts**.
2. In the **Accounts** list, select the account that you want to remove.
3. Click **Remove (–)**.
4. Click **OK** and then **Close**.

Managing Token-based Authentication in an Account using SuiteCloud IDE Plug-in for WebStorm

You can use token-based authentication (TBA) to log into custom roles in NetSuite Production account from the IDE plug-in. By using TBA with the IDE plug-in, you experience fewer session terminations when using a single login to develop SDF projects and navigate NetSuite. Additionally, TBA provides increased development environment security. For more information about setting up TBA with your Production account, see the help topic Getting Started with Token-based Authentication.

Before you can log in with a 2FA role from SDF, you must set up a 2FA Role for SDF Development. For further information, see the help topic Setting Up a 2FA Role for SDF Development.

**Issue or revoke a TBA token in SuiteCloud IDE Plug-in for WebStorm**

To use TBA, issue a TBA token for a custom role in a Production account and log in to that account with that role assigned. To use account credentials instead of TBA, revoke the active TBA token on the account.

**To issue or revoke a TBA token in SuiteCloud IDE Plug-in for WebStorm**

1. Ensure that your account administrator has set up a custom role for you to use with SDF.
   For information about granting permissions to a custom SDF developer role, see the help topic Assigning the Developer Role (Admin Only).
2. In WebStorm, select **NetSuite > Manage Accounts**.
3. In the **Accounts** list, select the account that you want to log in to using token-based authentication.
4. Click **Manage Authentication ()**.
   A window appears, showing all the roles that are assigned to the user.
5. In the **Roles** list, select the role that you want to log in to using token-based authentication.
6. To issue or revoke the TBA token on the role, click **Issue (+)** or **Revoke (–)**.
   **Issue** indicates that TBA is available for the role but not in use. Users with this role are logged in to NetSuite from the WebStorm plug-in using account credentials.
   **Revoke** indicates that the role uses TBA to log in to NetSuite from the WebStorm plug-in.
7. Click **Close** on both windows.

**To connect the 2FA role to your account, save the TBA token in your SDF project:**

1. In WebStorm, select **NetSuite > Manage Accounts**.
2. In the **Accounts** list, select the account that you want to log in to using token-based authentication.
3. Click **Manage Authentication** (¶).
   
   A window appears, showing all the roles that are assigned to the user. If **Authentication Type** is set to Token Based Authentication, you can save a TBA token for that role.

4. In the **Roles** list, select the role that you want to log in to using token-based authentication.

5. Click **Save Token** (¶).

6. Enter or edit the token ID and token secret using the credentials issued from NetSuite for that role.
   
   For information on how to issue a token in NetSuite, see the help topic **Viewing, Editing, Creating, and Revoking TBA Tokens**.

7. Click **Save**.

8. Click **Close** on both windows.

**Note:** After successfully saving the token, SDF stores the information and you can use the role for SDF features that depend on account login such as validation, deployment.
SuiteCloud IDE Plug-in for WebStorm Usage

Before you start working with the IDE plug-in, you should familiarize yourself with the following:
- SuiteCloud Development Framework
- SuiteCloud IDE Plug-in for WebStorm Overview
- Installing and Setting Up SuiteCloud IDE Plug-in for WebStorm

Working with the IDE plug-in is divided into the following task areas:
- Working with SDF Projects in SuiteCloud IDE Plug-in for WebStorm
- Working with Custom NetSuite Objects in SuiteCloud IDE Plug-in for WebStorm
- Working with SuiteScript Files in SuiteCloud IDE Plug-in for WebStorm

Working with SDF Projects in SuiteCloud IDE Plug-in for WebStorm

- Creating an Account Customization Project in SuiteCloud IDE Plug-in for WebStorm
- Creating a SuiteApp Project in SuiteCloud IDE Plug-in for WebStorm
- Customizing SuiteCloud IDE Plug-in for WebStorm

Creating an Account Customization Project in SuiteCloud IDE Plug-in for WebStorm

To customize your account, you can use SDF to create account customization projects.
After you create a project, you can set it up to connect the accounts you want to customize.
For more information about account customization projects, see:
- Account Customization Projects
- Differences Between SDF Projects

1. In WebStorm, select **File > New > Project**.
2. From the New Project dialog, select the project type: **Account Customization**.
3. Specify a location where you want to save your project or accept the default.
4. Set the remaining project properties. For more information, see the help topic Properties of an Account Customization Project.
5. Click **Create**.

   WebStorm opens a new window for each project.

   **Note:** If you do not see the project, look for another WebStorm window. From the window, if necessary, click **Project** and expand the project to see the project structure.
   For more information about the IDE plug-in UI, see SuiteCloud IDE Plug-in for WebStorm Overview and Customizing SuiteCloud IDE Plug-in for WebStorm.

6. Add the domains and accounts you want to customize. See Adding a Domain in SuiteCloud IDE Plug-in for WebStorm and Adding an Account in SuiteCloud IDE Plug-in for WebStorm.
Creating a SuiteApp Project in SuiteCloud IDE Plug-in for WebStorm

You can use SDF to create SuiteApp projects, which are intended for SuiteCloud Developer Network (SDN) members creating SDF SuiteApps.

For more information about SuiteApp projects, see:

- SuiteApp Projects
- Differences Between SDF Projects

1. In WebStorm, select **File > New > Project....**
2. From the New Project dialog, select the project type: **SuiteApp**.
3. Specify a location where you want to save your project or accept the default.
4. Set the remaining project properties. For more information, see the help topic **Properties of a SuiteApp Project**.
5. Click **Create**.

WebStorm opens a new window for each project.

**Note:** If you do not see the project, look for another WebStorm window. From the window, if necessary, click **Project** and expand the project to see the project structure. For more information about the IDE plug-in UI, see **SuiteCloud IDE Plug-in for WebStorm Overview** and **Customizing SuiteCloud IDE Plug-in for WebStorm**.

6. Add the domains and accounts you want to customize. See **Adding a Domain in SuiteCloud IDE Plug-in for WebStorm** and **Adding an Account in SuiteCloud IDE Plug-in for WebStorm**.

Customizing SuiteCloud IDE Plug-in for WebStorm

You can customize SuiteCloud IDE plug-in for WebStorm according to your preferences:

- Changing Where Projects Open in SuiteCloud IDE Plug-in for WebStorm
- Turning Off Code Completion in SuiteCloud IDE Plug-in for WebStorm

For more information, visit **WebStorm Help**.

Changing Where Projects Open in SuiteCloud IDE Plug-in for WebStorm

By default, the WebStorm plug-in prompts you to choose opening the project in the same window or in a new window. You can change this setting.

**To always open projects in a new window:**

1. In WebStorm, select **File > Settings...**
2. Select **Appearance & Behavior > System Settings**.
3. Under **Project Opening**, choose **Open project in new window** to open projects in a separate window.
Turning Off Code Completion in SuiteCloud IDE Plug-in for WebStorm

**Note:** If you disable code completion, you can still get suggestions when pressing Ctrl + Spacebar. For information about SuiteScript code completion, see Using SuiteScript Code Completion in SuiteCloud IDE Plug-in for WebStorm.

To turn off code completion in SuiteCloud IDE Plug-in for WebStorm:

1. In WebStorm, select **File > Settings...**
2. Select **Editor > General > Code Completion.**
3. Clear all the boxes, click **Apply** and then, **OK.**

Importing Account Components to your SDF Project with SuiteCloud IDE Plug-in for WebStorm

You can import custom NetSuite objects to account customization projects or SuiteApp projects after you have authenticated the master password. You can also use SDF to import custom NetSuite objects, files, and scripts from your account into an account customization project.

See the following topics:

- Importing Custom NetSuite Objects into an SDF Project with SuiteCloud IDE Plug-in for WebStorm
- Importing Files and Scripts into an Account Customization Project with SuiteCloud IDE Plug-in for WebStorm
- Account Component Imports

Importing Custom NetSuite Objects into an SDF Project with SuiteCloud IDE Plug-in for WebStorm

1. From an SDF project in the WebStorm plug-in, right-click the **Objects** folder.
2. Select **NetSuite > Import Custom Objects from Account.**
3. Choose the account and role associated with your account, and click **Next.**
4. Select or enter the appropriate search criteria to find the custom objects that you want to import, and click **Search.**
   - SDF generates a list of custom objects that match your search criteria.
5. Select the custom objects that you want to import, and click **Finish.**
   - SDF imports the custom objects from your account, and places them in the **Objects** folder of the SDF project.

Importing Files and Scripts into an Account Customization Project with SuiteCloud IDE Plug-in for WebStorm

If your account has the Web Site Hosting Files folder, you need to fulfill the following prerequisites to see it in the IDE plug-in:
Working with SDF Projects in SuiteCloud IDE Plug-in for WebStorm

1. In an account customization project, right-click the FileCabinet folder.
2. Select NetSuite > Import Files from Account.
3. Choose the account and role associated with your account, and then click Get Files.
4. Select the files or folders that you want to import, and click OK.

**Note:** You may be prompted to overwrite any files that already exist in the project.

SDF imports the files from the account and places them in subdirectories of the FileCabinet folder of the account customization project. For the list of subdirectories, see the File Cabinet Files section in SDF Project Components.

Working with Custom NetSuite Objects in SuiteCloud IDE Plug-in for WebStorm

Custom NetSuite objects are created when XML representations in an SDF project are deployed to your NetSuite account.

You can customize NetSuite objects by downloading XML definitions of those objects from your account, importing them, or creating new representations. The XML files are converted into custom NetSuite objects when you deploy them to your NetSuite account.

See the following topics to learn more about working with custom objects using SDF:

- Downloading the XML Definition of an Object from Your NetSuite Account
- Creating an XML Definition for a Custom Object in SuiteCloud IDE Plug-in for WebStorm
- Comparing a Custom SuiteCloud Object with a Custom NetSuite Object in SuiteCloud IDE Plug-in for WebStorm
- Comparing an SDF Project File with a File in SuiteCloud IDE Plug-in for WebStorm

Creating an XML Definition for a Custom Object in SuiteCloud IDE Plug-in for WebStorm

You create custom NetSuite objects by creating XML definitions of those objects. The XML files are converted into custom NetSuite objects when you deploy them to your NetSuite account.

Custom NetSuite object types must be stored in the Objects folder. By default, your deploy file is configured to deploy all custom NetSuite objects in the Objects folder. For more information, see the help topic SDF Project Deployment Preparation.

To understand how an XML definition in an SDF project is structured and which XML tags are available within nested elements, see the following topics:

- Object File Structure
- Syntax Guidelines and Reference Formats
Customizations Supported by SuiteCloud Development Framework

SuiteCloud Development Framework XML Reference

1. In WebStorm, open a SuiteApp project.
2. Right-click the Objects folder and select New > File.
3. In the New File dialog, enter the file name and extension. The file name should match the script ID of the object. See the help topic Object File Structure for more information.
4. Click OK.
5. In the file, add the XML representation of the object. See the help topic Object File Structure for more information.

Comparing a Custom SuiteCloud Object with a Custom NetSuite Object in SuiteCloud IDE Plug-in for WebStorm

You can compare the XML definition of a custom SuiteCloud object with the XML equivalent of a custom NetSuite object. Objects can only be compared when they share the same script IDs and are the same object type.

To compare a custom SuiteCloud object with a custom NetSuite object in SuiteCloud IDE Plug-in for WebStorm:

1. In WebStorm, open an SDF project and expand the Objects folder.
2. Right-click on the object file and click NetSuite > Compare Custom Object with Account Version.
   The side-by-side comparison window appears if an object with the same script ID exists in your NetSuite account. The differences between the two objects are highlighted.

Comparing an SDF Project File with a File in SuiteCloud IDE Plug-in for WebStorm

You can compare a file in the File Cabinet folder of your project with the equivalent account version. Files can only be compared when they share the same script IDs and are the same file type.

To compare a SDF Project File with a File in SuiteCloud IDE Plug-in for WebStorm:

1. From an SDF project in the WebStorm plug-in, expand the FileCabinet folder or one of its subfolders.
2. Right-click a file, and click NetSuite > Compare File with Account Version.
   The side-by-side comparison window appears if a file with the same script ID exists in your NetSuite account. The differences between the two files are highlighted.

Example

The following shows the side-by-side comparison window of a custom client script file that exists in the SDF project and the NetSuite account:
Working with SuiteScript Files in SuiteCloud IDE Plug-in for WebStorm

See the following topics for information about working with SuiteScript files:

- Uploading Files or Folders to Your Account with SuiteCloud IDE Plug-in for WebStorm

Uploading Files or Folders to Your Account with SuiteCloud IDE Plug-in for WebStorm

You can upload individual files or folders to the File Cabinet in your account, without requiring deployment of the entire project. The file or folder must be within a File Cabinet folder supported by SDF. The following folders are supported, depending on SDF project type:

- SuiteScripts
- SuiteApps/<Application ID>
- Templates
- Web Site Hosting Files

**Note:** For more information about the Application ID, see the help topic SuiteApp Application ID.

To upload a file or folder from your SDF project to your account with SuiteCloud IDE plug-in for WebStorm:

1. From the File Cabinet folder of your SDF project, do one of the following:
   - Right-click a folder. Select NetSuite > Upload Folder to Account.
If a file or folder with the same file cabinet location and name already exists in your account, it is overwritten by the SDF file upload.

If the folder containing the file did not exist in the account, SDF creates the folder in your account during the upload process.

### Adding Dependencies to the Manifest in SuiteCloud IDE Plug-in for WebStorm

- Defining SDF SuiteApp Object Dependencies with SuiteCloud IDE Plug-in for WebStorm
- Defining Account Component Dependencies from an Account Customization Project in SuiteCloud IDE Plug-in for WebStorm
- Defining Feature Dependencies in SuiteCloud IDE Plug-in for WebStorm

### Defining SDF SuiteApp Object Dependencies with SuiteCloud IDE Plug-in for WebStorm

You can define dependencies on SuiteApp objects that are external to your SDF project if they are custom NetSuite objects supported by SDF. For more information about custom object dependencies, see:

- SDF SuiteApp Object Dependencies
- Specifying a NetSuite Custom Object Reference

If your project does not contain any references to the object dependency, you must define the dependency manually. See the help topic Manually Defining SDF SuiteApp Object Dependencies from the SDF Project Manifest.

**To automatically define external SuiteApp object dependencies in SuiteCloud IDE Plug-in for WebStorm:**

1. From the **Project** window in WebStorm, right-click the SDF project.
2. Select **NetSuite > Add Dependency References to Manifest**.

   SDF evaluates the custom NetSuite objects that are referenced in the SDF project and adds any new dependencies to the manifest.xml file.

   **Note:** This option does not remove dependencies that are not referenced by any objects.

### Example

The following example shows a SuiteApp project manifest that references an object called customrecord_sample that is not part of the project. During a server-side validation against a NetSuite account, SDF logs any referenced object that is missing from the account.

```xml
<manifest projecttype="SUITEAPP">
  <publisherid>com.example</publisherid>
  <projectid>mysuiteapp</projectid>
  <projectname>SDFSample</projectname>
</manifest>
```
Defining Account Component Dependencies from an Account Customization Project in SuiteCloud IDE Plug-in for WebStorm

You can define dependencies on existing custom NetSuite objects, files, and scripts from your NetSuite accounts in an account customization project. For more information, see:

- Account Component Dependencies
- Specifying a NetSuite Custom Object Reference

If your project does not contain any references to the dependency, you must define it manually. See the help topic Manually Defining Account Component Dependencies in the Account Customization Project Manifest.

To automatically define account component dependencies in SuiteCloud IDE Plug-in for WebStorm:

1. From the Project window in WebStorm, right-click the SDF project.
2. Select NetSuite > Add Dependency References to Manifest.

SDF evaluates the custom NetSuite objects, files, and scripts that are referenced in an account outside of the SDF project and adds any new dependencies to the manifest.xml file.

**Note:** This option does not remove dependencies that are not referenced by any objects.

Example

The following example shows an account customization project manifest that references objects and files that are not part of the project, such as customrecord_sample, customworkflow_sample, customlist, and ext_UserScript.js. During a server-side validation against a NetSuite account, SDF logs any referenced object or file that is missing from the account.
Defining Feature Dependencies in SuiteCloud IDE Plug-in for WebStorm

When you use SDF with NetSuite features, such as SuiteScript or custom records, you must define the dependencies in the SDF project.

For more information, see the help topic Feature Dependencies.

To automatically reference dependencies in the SDF project manifest in SuiteCloud IDE Plug-in for WebStorm:

1. From the Project window in WebStorm, right-click the SDF project.
2. Select NetSuite > Add Dependency References to Manifest.

   SDF evaluates the NetSuite feature requirements in the project and adds any new dependency references to the manifest.xml file.

   **Note:** This option does not remove dependencies that are not referenced by any objects.

3. Review the new dependency references in the manifest. If desired, change the required attribute.

Example

The following example shows a project manifest that references dependencies on the server-side SuiteScript and custom record features. The references enable you to use these features in the project.
Setting Installation Preferences in SuiteCloud IDE Plug-in for WebStorm

To define installation preferences, you can create new preference files in the InstallationPreferences folder of your SuiteApp project. There are two types of preferences files: locking preferences and hiding preferences.

For more information, see the following topics:

- Installation Preferences in a SuiteApp Project
- Create an Installation Preference File with SuiteCloud IDE Plug-in for WebStorm
- Locking Custom Objects in an SDF SuiteApp Project
- Locking Custom Objects in an SDF SuiteApp Project
- Locking Files in an SDF SuiteApp Project
- Default Installation Preferences
- Using the Content Protection Option to Apply Installation Preferences

Create an Installation Preference File with SuiteCloud IDE Plug-in for WebStorm

1. Open a SuiteApp project in WebStorm.
2. Right-click on the InstallationPreferences folder and select New > File.
3. In the New File dialog, enter the file name.  
   **Important:** The file name must include the file extension and be named exactly as specified for its preference type. For example, a hiding preference file type must be named hiding.xml. See the help topic Installation Preference File Structure for information about all preference types.
4. Click OK.
5. In the file, add the XML representation of the preference. See the help topic Installation Preference File Structure for preference type templates.

Using SuiteScript Code Completion in SuiteCloud IDE Plug-in for WebStorm

When you create a new SDF project, both 1.0 and 2.0 versions of SuiteScript APIs are added as external libraries to the SDF project. The IDE plug-in can read these libraries to help check SuiteScript syntax and assist with entering functions, objects, and references.

Code completion works by examining the source code around the cursor in the editor. Depending on where the caret is positioned, a popup displays with SuiteScript (and also JavaScript) text options to insert at the cursor.
Using SuiteScript Code Completion in SuiteCloud IDE Plug-in for WebStorm

Note: Code completion of parameters, such as record types, is not supported.

If you do not need code completion for a particular SuiteScript version, you can delete the library file from the External Libraries folder of the project.

If you do not use code completion, see Turning Off Code Completion in SuiteCloud IDE Plug-in for WebStorm.

Validating an SDF Project with SuiteCloud IDE Plug-in for WebStorm

SDF can run server-side validation to catch errors that may occur during the project deployment process. For more information, see the help topic SDF Project Validation.

To validate an SDF project against your account with SuiteCloud IDE plug-in for WebStorm:

1. In WebStorm, create or select the SDF project. For more information, see Creating an Account Customization Project in SuiteCloud IDE Plug-in for WebStorm or Creating a SuiteApp Project in SuiteCloud IDE Plug-in for WebStorm.
2. Right-click on an SDF project in the Project window.
4. Choose the account and role associated with your account.
5. Select Validate.

SDF validates your project against the chosen account. The validation progress log is displayed in the SuiteCloud IDE console.

Errors in the validation log are displayed in red. If you encounter errors during server-side validation, review the error messages to determine possible causes and troubleshoot the issues.

Example

The following example shows a validation log that indicates a successful validation:
Validating an SDF Project with SuiteCloud IDE Plug-in for WebStorm

Info -- Account [ACCOUNTNAME]
Info -- Account Customization Project [PROJECTNAME]
Info -- Framework Version [1.0]
Validate manifest -- Success
Validate deploy file -- Success
Validate configuration -- Success
Validate script file -- Success
Validate objects -- Success
Validate files -- Success
Validate folders -- Success
Validate account settings -- Success
Validate Custom Objects against the Account -- Success
Validation COMPLETE
Validate preferences - Success
Validate flags - Success

Deploying an SDF Project to Your NetSuite Account With SuiteCloud IDE Plug-in for WebStorm

When you create an SDF project, a deploy file is automatically generated. By default, the file is configured to deploy all supported files in the FileCabinet folder and all custom NetSuite objects in the Objects folder.

For more information, see the help topic SDF Project Deployment Preparation.

To deploy an SDF project to your NetSuite account With SuiteCloud IDE Plug-in for WebStorm:

1. In WebStorm, create or select the SDF project.
   For more information, see Creating an Account Customization Project in SuiteCloud IDE Plug-in for WebStorm or Creating a SuiteApp Project in SuiteCloud IDE Plug-in for WebStorm.

   Important: Account customization projects cannot be uninstalled from your account after they have been deployed. Undesired account components need to be manually deleted.

2. Ensure that your project references all the required dependencies.

3. Ensure that your deploy file references all of the NetSuite components that you want to deploy.
   For more information, see the help topic SDF Project Deployment Preparation.

4. Right-click on an SDF project in the Project window.

5. Select one of the following:
   - NetSuite > Deploy
   - NetSuite > Deploy to Account

6. If you chose to deploy to an account, select the appropriate account and role, and then click Deploy.
7. If you are deploying a SuiteApp project, to enable or disable the installation preferences, select or clear the Apply Content Protection box. For more information, see the help topic Installation Preferences in a SuiteApp Project.

8. If you are deploying to a NetSuite production account, a notification window may appear. Confirm that you want to deploy to the production account to continue the deployment process. SDF validates and deploys the SDF project to your NetSuite account. The installation log is displayed in the SuiteCloud IDE tool window.

**Example**

The following example shows the installation log of a successful deployment to a NetSuite production account for a company named Wolfe Electronics:

```
2018-08-09 06:05:10 (PST) Installation started
Info -- Account [(PRODUCTION) Wolfe Electronics (ACCOUNTNAME)]
Info -- Account Customization Project [SDFtutorial]
Info -- Framework Version [1.0]
Validate manifest -- Success
Validate deploy file -- Success
Validate configuration -- Success
Validate script file -- Success
Validate objects -- Success
Validate files -- Success
Validate folders -- Success
Validate account settings -- Success
Validate Custom Objects against the Account -- Success
Begin deployment
Upload file -- ~/FileCabinet/SuiteScripts/UserEventScript.js
Create object -- customrecord_tutorial (customrecordtype)
Create object -- customscript_userevent (usereventscript)
Create object -- customrecord_tutorial.custrecord_tut_memo (customrecordcustomfield)
Create object -- customscript_userevent.customdeploy_ue_tut (scriptdeployment)
2018-08-09 06:05:37 (PST) Installation COMPLETE (0 minutes 27 seconds)
```

**Shortcut Keys in SuiteCloud IDE Plug-in for WebStorm**

You can use keymaps to trigger the following SDF functions:

<table>
<thead>
<tr>
<th>Function</th>
<th>Key Combination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add Dependency References to Manifest</td>
<td>Ctrl+Alt+Shift+A</td>
</tr>
<tr>
<td>Authenticate Master Password</td>
<td>Ctrl+Alt+A</td>
</tr>
<tr>
<td>Compare File with Account Version</td>
<td>Alt+Shift+E</td>
</tr>
<tr>
<td>Deploy</td>
<td>Ctrl+Alt+D</td>
</tr>
<tr>
<td>Deploy to Account...</td>
<td>Ctrl+Alt+Shift+D</td>
</tr>
<tr>
<td>Import Custom Objects from Account...</td>
<td>Ctrl+Alt+I</td>
</tr>
<tr>
<td>Function</td>
<td>Key Combination</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Open Project Settings</td>
<td>Ctrl+Alt+P</td>
</tr>
<tr>
<td>Revoke Master Password</td>
<td>Ctrl+Alt+R</td>
</tr>
<tr>
<td>Validate</td>
<td>Ctrl+Alt+V</td>
</tr>
<tr>
<td>Validate to Account...</td>
<td>Ctrl+Alt+Shift+V</td>
</tr>
<tr>
<td>Upload File(s) to Account</td>
<td>Alt+Shift+U</td>
</tr>
</tbody>
</table>