



# Week 9




SuiteCloud Development Framework  
(SDF)




# Session 9 Overview

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- SDF Introduction (SuiteCloud Development Framework)
- Setting up SDF
- SDF Deployment Workflow



# Introduction to SDF Deployment



# What is SDF?

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SuiteCloud Development Framework (SDF) is a development and deployment technology from NetSuite that allows developers to build, manage, and deploy NetSuite customizations as project-based files.

Instead of manually configuring settings within the NetSuite UI, SDF provides a structured and version-controlled way to develop, validate, and deploy changes.

# Key Features of SDF

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**Project-based Development** – Stores NetSuite customizations in an XML-based project structure.

**Version Control Friendly** – Works well with Git or other version control systems.

**Supports Automation** – Enables CI/CD pipelines for automated deployments.

**Cross-Account Deployment** – Allows deploying customizations between sandbox, production, or separate NetSuite accounts.

**Validation Before Deployment** – Ensures customizations are compatible before deploying.

**Oracle Help Center:** [SuiteCloud Development Framework Overview](#)

# What is SuiteCloud CLI?

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SuiteCloud CLI (Command Line Interface) is a command-line tool that allows developers to interact with the NetSuite environment using terminal commands.

It is a key component of SDF, enabling developers to create, manage, validate, and deploy NetSuite projects without relying on the UI.

# SuiteCloud CLI continued

**SuiteCloud CLI** is used to create and manage **SDF projects** on a local machine.

It provides commands to **authenticate, validate, and deploy** NetSuite customizations.

Supports automation and **CI/CD integration** for continuous deployment.

Simplifies managing **NetSuite account customizations** by handling them as code.

## Common CLI Commands

Command	Description
<code>suitecloud account:setup</code>	Configures authentication with NetSuite.
<code>suitecloud project:create</code>	Creates a new SDF project.
<code>suitecloud project:validate</code>	Checks for errors before deployment.
<code>suitecloud project:deploy</code>	Deploys the project to NetSuite.

# Why use SDF instead of the NetSuite UI?

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Feature	NetSuite UI	SDF
Version Control	No built-in version tracking	Works with Git
Collaboration	Manual & Isolated changes	Enables team-based development
Automated Deployment	Requires manual updates	Supports CI/CD
Cross-Account Deployment	Manual import / export	One-click deployment





# Setting up SuiteCloud CLI + SDF



# Setting up SuiteCloud CLI

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1. [Installation Prerequisites](#)
2. [Supported versions](#)
3. [Installing SuiteCloud CLI](#)
4. [Setting up SuiteCloud CLI](#)

# Installing + Setting up SuiteCloud CLI

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1. Run the following command in Command Prompt:

```
npm install -g @oracle/suitecloud-cli
```

2. Navigate to the location of an existing project and run:

```
suitecloud account:setup
```



# SDF Deployment Workflow



# Creating an SDF Project

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Open the terminal and navigate to your desired folder and run the following.  
Replace 'MySDFProject' with your project name

```
suitecloud project:create -p MySDFProject -t ACCOUNT_CUSTOMIZATION
```

# Managing XML custom objects

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In SDF, **custom records, scripts, workflows, and other NetSuite objects** are stored as XML files.

All custom objects are stored in XML format and can be version-controlled.

```
<?xml version="1.0" encoding="UTF-8"?>
<customrecord scriptid="custrecord_myrecord">
  <label>My Custom Record</label>
  <fields>
    <field scriptid="custfield_example">
      <label>Example Field</label>
      <type>TEXT</type>
    </field>
  </fields>
</customrecord>
```

# Validating your project

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This command will validate that all XML structure is correct and ensures that dependencies are met before deployment

Errors will be listed in the terminal

```
suitecloud project:validate
```

# Deploying to NetSuite

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This command pushes all project files to NetSuite

```
suitecloud project:deploy
```



# Sample Use Cases

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**Use Case 1:** Migrating custom scripts, records, and workflows between accounts

**Use Case 2:** Version control and rollback using Git integration

**Use Case 3:** Automating deployments with CI/CD pipelines

**Use Case 4:** Managing multiple NetSuite accounts (sandbox vs production)

# Hands-on Exercise

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**Objective:** Set up and configure SuiteCloud CLI + create a project using SDF

**Tasks:**

1. Install SuiteCloud CLI
2. Connect to your NetSuite account
3. Create an SDF project
4. Deploy to NS