

Salesforce DX – Salesforce Developer Experience

Salesforce DX is a new feature introduced by Salesforce.com that helps developers to build applications using Source Driven development Workflow. Using Source driven Development, the source code is organised into artifacts and can be kept in a version control systems (VCS) such as GitHub, Team Foundation Service (TFS), Subversion (SVN) and in any other source control system.

Introduction to Salesforce DX

Salesforce Development Experience (DX) was introduced in Winter '18 release. Before Salesforce DX, Salesforce production Org is the source for code, Configurations and customisation. It is very difficult to coordinate team, difficult to automate testing, difficult to roll-back releases and to create separate version modules. Now, with the release Salesforce now offers an incredibly easy and end to end development process, it improves team development and collaboration and provides automated testing.



Salesforce CLI

Salesforce CLI is a single Command Line Interface used to create and manage Scratch Orgs, Push and pull code and configuration from source control to Salesforce scratch Orgs. Using Salesforce CLI, we can load sample datasets into scratch Orgs, can assign permission sets.

- [Learn how to Install Salesforce DX CLI.](#)

Scratch Orgs

Scratch Org is a dedicated, configurable and temporary org which can be set up in a just few minutes. These Scratch Orgs are built from source code and metadata. A developer can creates as many number of Scratch Orgs and deleted for each specific Salesforce DX project.

- [Learn how to create Salesforce Scratch Org.](#)

Salesforce DX project

Salesforce DX project can be named as a local directory structure which contains artifacts, Salesforce DX metadata and configuration files to create Scratch Orgs. A project can be created using Salesforce CLI (command line interface), during project creation following are the thing created for you.

- Base project configuration file.

- Sample scratch definition files and directories.
- We create default “package” directory.

[Create Salesforce DX Project.](#)

Salesforce DX live Debugging

Real-time Apex debugger extension helps to debug Visual Studio Code.

Benefits

- Reduce the cost of Live server debugging license within Salesforce ORG
- Reduced troubleshooting issues.
- Team collaboration.
- Devops automation
- Reactive and fast troubleshooting live Salesforce org data.

Steps for implementation

- Create scratch org in Salesforce Developer Extension platform.
- Checkout resources in **MavensMate app**.
- Open VS editor.
- Configure live server debugging in launch.json file. For EG – type – “launch”, request – “launch program”, program – “current salesforce directory classpath.”
- Use debugging keys to operate the outcome

Conclusion

In the following [Salesforce tutorials](#), we cover how to enable developer hub in your Salesforce organisation, Installing Salesforce Developer Experience CLI and different Salesforce DX commands.

Home : [Salesforce Admin Tutorials](#)

┆ [Salesforce Administration](#)

Section 1 : [Getting Started](#)

┆ [What is Salesforce.com](#)

┆ [What is login.Salesforce.com](#)

┆ [Enabling Caching and Automcomplete at Salesforce login](#)

┆ [Overview of ERP and CRM](#)

┆ [What is Cloud Computing](#)

┆ [Why Salesforce CRM is #1 on Demand](#)

Section 2 : [Designing your Data Model](#)

Section 3 : [Building your Data Model](#)

┆ [Understanding Salesforce.com application](#)

▸ How to create an App in SFDC?

▸ How to create custom object in SFDC

▸ Creating fields using different field types in Salesforce.com

▸ Overview on Salesforce Object Relationships

▸ How to create Master Detail relationship in SFDC?

▸ Cannot create Master Detail Relationship?

▸ How to create Lookup relationship in salesforce.com?

▸ How to create Many to Many Relationship in Salesforce?

▸ What is Schema Builder

Section 4 : Implementing Business Logics

▸ What is a Formula Field?

▸ What are Cross Object Formulas?

▸ What are Validation Rules?

▸ Roll up Summary Fields

▸ Field Dependencies

Section 5 : Setting up User Interface

▸ Page Types and Page Elements

▸ What are page Layouts?

▸ Home page layouts and components

▸ Why Documents are used in Salesforce

▸ List Views

Section 6 : Customizing Standard Salesforce Application

▸ How to Customise Standard Salesforce application

Section 7 : Salesforce Security Model

▸ Overview on Salesforce security Model

▸ How to create New Users in SFDC?

▸ What is SAML?

▸ Public groups in Salesforce

▸ Role Hierarchies in Salesforce.com

▸ How to create and manage Profiles

▸ What is Field Level Security?

▸ How to use Permission Sets?

▸ Control Record visibility using Organisation wide Defaults

‡ Control Record visibility using Role Hierarchy

‡ Control Record visibility using Sharing Rules

‡ What are Record Types and how can we configure

‡ What are Page Types and page Elements

Section 8 : Data Management

‡ Different Data Management Tools

‡ How to install Apex Data Loader in macOS and Windows

‡ How to Insert a record using Apex Data Loader

‡ How to Update and Insert records Apex Data Loader

‡ How to Delete and Export records Apex Data Loader

Section 9 : Salesforce.com Audit

‡ Field History Tracking

‡ Setup Audit Trail

Section 10 : Automate Business Process

‡ How to create New Email Template in Salesforce

‡ Salesforce Workflow Rules Overview

‡ Creating Workflow rules with Rule Criteria & Workflow actions

‡ Configuring Approval Process

‡ Assignment rules for Leads and Cases

Section 11 : Reports and Dashboards

‡ What is a report in Salesforce and how we create them?

‡ Salesforce Reports and Dashboards Overview

‡ How to use report builder?

‡ How to create Summary reports?

‡ How to create matrix reports?

‡ How to create salesforce Dashboard, Different Dashboard Components, Customizing Dashboard Components, How to create Dynamic Dashboard in Salesforce, Deleting and Printing Salesforce Dashboards

‡ Creating Dashboards with Dashboard Components for Tabular and Joined Reports

Section 12 : Salesforce Service Cloud

‡ Overview on Salesforce Service Cloud

Section 13 : Portal and Sites

Section 14 : AppExchange

‡ What is Salesforce AppExchange.

Section 15 : Managing Sandboxes

Section 15 : Managing Sandboxes

- What is Salesforce Sandbox?.
- Different Sandboxes and Sandbox Environment Types.
- How to create Salesforce Sandbox template?.
- How to create Salesforce Sandbox?
- How to login Salesforce Sandbox?

Section 16 : Salesforce lightning

- How to create Salesforce custom domain?
- What is Salesforce lightning Experience?
- What is Salesforce lightning component Framework?
- Creating first Salesforce lightning App
- Styling Salesforce lightning App
- Lightning Componnet : aura:attribute tag
- What is Salesforce DX?
- Create Salesoforce DX project
- Salesforce Dev Hub Setup step-by-step
- Creating Sratch Org