

Create Salesforce Scratch Org

Scratch Org is temporary deployment of Salesforce source code and metadata. Any number of Salesforce Scratch Org's can be created to start new project, to start a new feature branch, to test a new feature, to start automated testing, to perform development tasks directly in an Org and to start from "scratch" with a fresh new Org.

In this [tutorial](#), we will create Salesforce Scratch Org using command line in Terminal (Mac). Follow the steps given below:

- As already we have created Salesforce DX project from existing source (GitHub), now open Terminal and enter the following code

Create Salesforce Scratch Org

In this step, we are going to create Salesforce Scratch Org in Command Line Interface(CLI) which will be used in our future development. Before creating a Scratch Org, check that developer hub account is linked to CLI.

Enter the following code and the result will be as shown below.

```
prasanth:sfdx-  
dreamhouse_prasanth$  
  
prasanth:sfdx-dreamhouse prasanth$ sfdx force:org:list  
=== Orgs  
  ALIAS  USERNAME  ORG ID  CONNECTED STATUS  
??? ?????? ?????????????????? ?????????????????????? ??????????????????????  
(D) DevHub prasanth@tk.com 00D6F000002SEW1UAO Connected
```

Steps to create Salesforce Scratch Org

1. Create directory.
2. Clone the repository (dream house) from GitHub.
3. Set a default username for the Org that you connect.
4. Create a Scratch Org.
5. Push source metadata to Salesforce Scratch Org.
6. Assigning permissions to DreamHouse App.
7. Importing test data.
8. Open Scratch Org.

To create a scratch Org from CLI, enter cd into the project before running the following code.

```
prasanth:~ prasanth$  
cd
```

```
prasanth:~ prasanth$ cd tutorialkart_sfdxproject

prasanth:tutorialkart_sfdxproject prasanth$ cd sfdx-dreamhouse
```

Setting default username to the Org

Salesforce recommends developers to set default username to the Org that we connect during development. CLI requires username to create a scratch Org, to synchronise source code between project and Scratch Org and other task to determine which Org that we are connecting.

Now when setting default username to the Org, we are not required to specify a username, the command used the default.

```
prasanth:sfdx-
dreamhouse-prasanth$

prasanth:sfdx-dreamhouse prasanth$ sfdx force:config:set
defaultusername=prasanth@tk.com
```

Output

```
=== Set Config
NAME      VALUE
???????????????????? ?????????????????????
defaultusername prasanth@tk.com
```

Creating Salesforce Scratch Org with alias name

Scratch org usernames are long and unintuitive. Setting an alias each time you create a scratch org is a great way to track the scratch org's function. And it's much easier to remember when issuing subsequent CLI commands.

Run the following command to create Salesforce Scratch Org with alias

```
prasanth:sfdx-
dreamhouse-prasanth$
```

```
prasanth:sfdx-dreamhouse prasanth$ sfdx force:org:create
-s -f config/project-scratch-def.json -a testScratchOrg
```

Output

```
Successfully created
scratch org:
```

```
Successfully created scratch org: 00DO00000055j0XMAQ,
username: test-dvcyqr7qqond@example.com
```

Push Source Metadata to Scratch Org

After changing the source, we can sync the changes to our Scratch Org by pushing the changed source to it. All sources in the folders in the package directories are pushed to the Scratch Org. Run the following command to push source metadata to Scratch Org.

```
prasanth:sfdx-
dreamhouse-prasanth$
```

```
prasanth:sfdx-dreamhouse prasanth$ sfdx force:source:push
=== Pushed Source
```

Assigning Permset to Dreamhouse App

Before accessing **DreamHouse** app in Salesforce, we need to assign the Permset using CLI. Run the following command shown below.

```
prasanth:sfdx-
dreamhouse-prasanth$
```

```
prasanth:sfdx-dreamhouse prasanth$ sfdx force:user:permset:assign -n Dreamhouse
=== Permsets Assigned
USERNAME                PERMISSION SET ASSIGNMENT
????????????????????? ??????????????????????
test-ocpbhvfglndm@example.com Dreamhouse
```

Import Test Data

We are going to import test data using SObject Tree API. Run the following command in CLI.

```
prasanth:sfdx-
dreamhouse-prasanth$
```

```
prasanth:sfdx-dreamhouse prasanth$ sfdx force:data:tree:import --plan data/sample-data-plan.json
```

[Image: https://quip.com/-/blob/ZCbAAAmNfFl/22AIDViuFpI1dUsAmU0eww]=== Import Results

REFERENCE ID	TYPE	ID
????????????????????	????????????	????????????????????
CarolineBrookerRef	Broker__c	a01p0000006rpGHAAY
MichaelJonesRef	Broker__c	a01p0000006rpGIAAY
JonathanBradleyRef	Broker__c	a01p0000006rpGJAAAY
JenniferWuRef	Broker__c	a01p0000006rpGKAAAY
OliviaGreenRef	Broker__c	a01p0000006rpGLAAAY
MiriamAupontRef	Broker__c	a01p0000006rpGMAAY
MichelleLambertRef	Broker__c	a01p0000006rpGNAAY
SeniorBrokerRef	Broker__c	a01p0000006rpGOAAAY
18HenryStRef	Property__c	a04p0000009UwhxAAC
24PearlStRef	Property__c	a04p0000009UwhyAAC
72FrancisStRef	Property__c	a04p0000009UwhzAAC
32PrinceStRef	Property__c	a04p0000009Uwi0AAC
110BaxterStRef	Property__c	a04p0000009Uwi1AAC
448HanoverStRef	Property__c	a04p0000009Uwi2AAC
127EndicottStRef	Property__c	a04p0000009Uwi3AAC
48BrattleStRef	Property__c	a04p0000009Uwi4AAC
121HarborwalkRef	Property__c	a04p0000009Uwi5AAC
640HarrisonAveRef	Property__c	a04p0000009Uwi6AAC
95GloucesterStRef	Property__c	a04p0000009Uwi7AAC
145CommonwealthAveRef	Property__c	a04p0000009Uwi8AAC

We have successfully created and configured Salesforce scratch Org. In our final step, open the Scratch Org.

Open Salesforce Scratch Org

To open Salesforce Scratch Org, run the following command : **sfdx force:org:open**. To open the DreamHouse app, click App launcher and then click DreamHouse icon as shown below.

App Launcher [Visit AppExchange](#)

▼ All Apps

- Service**
Manage customer service with accounts, contacts, cas... [More](#)
- Marketing**
Best-in-class on-demand marketing automation
- Community**
Salesforce CRM Communities
- Site.com**
Build pixel-perfect, data-rich websites using the dr... [More](#)
- Salesforce Chatter**
The Salesforce Chatter social network, including pro... [More](#)
- Content**
Salesforce CRM Content
- Sales**
Manage your sales process with accounts, leads, oppo... [More](#)
- Bolt Solutions**
Discover and manage business solutions designed for ... [More](#)
- DreamHouse**
DreamHouse helps you connect with your Customers in ... [More](#)

tutorialkart.com

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 Filed?](#)

- [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

▸ 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