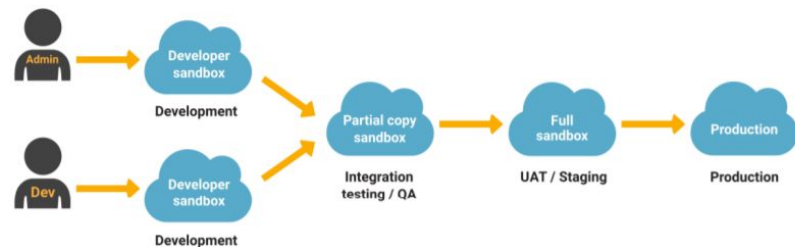


Scratch Org

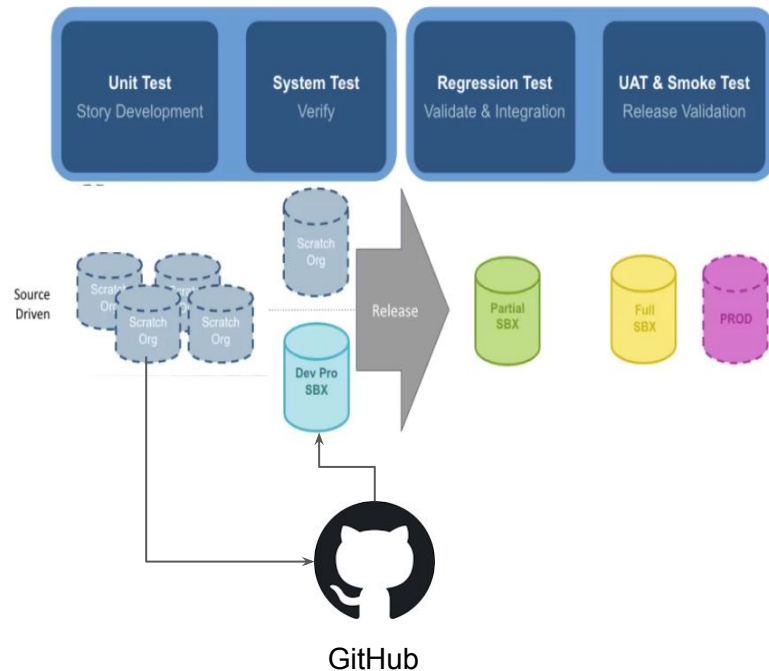
Salesforce development model

➔ Moving from org. development model to source driven development model

Sandbox development flow

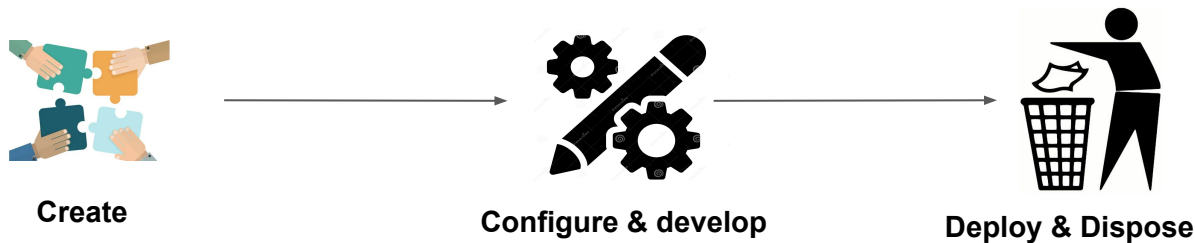


A typical sandbox development flow



Salesforce Scratch Org

- Source driven and disposable deployment of salesforce code and metadata
- Fully configurable to develop and test your feature independently



Things to know

- Scratch orgs are time bound (1- 30 days)
- You get a vanilla version of salesforce org and not your prod. org shape
- DevHub should be configured
- Your salesforce license determines max. number of scratch orgs that can be created

Tools that you need

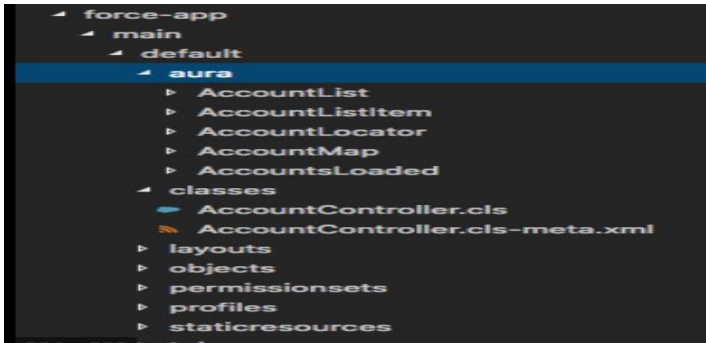
Must have

1. Salesforce CLI
2. VS Code
3. Salesforce extension

Good to have

1. ESLint
2. Prettier
3. Live Server

Salesforce Metadata



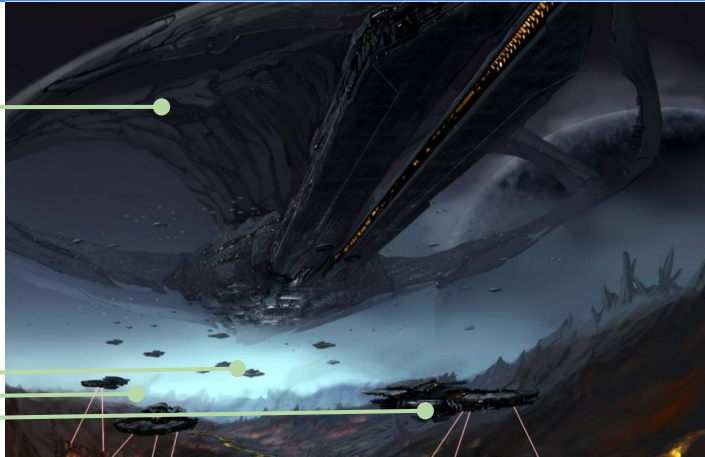
What : Anything that goes into building SF application.E.g: fields, code, logic

Why: Hard-coded applications are a thing of the past; customization is the flair of the season.Flexible applications that can be tailor-made, without the need for high-level programming skills.That is why Salesforce Metadata is so powerful

Setup Dev Environment

Dev Hub

Scratch Org



Step 1: Setup Dev Hub

Step 2: Spin off scratch org

Demo

Salesforce CLI & VS Code

```
C:\Users\raj_a>sfdx version  
sfdx-cli/7.108.0 win32-x64 node-v16.4.1
```

```
git clone https://github.com/dreamhouseapp/dreamhouse-sfdx
```

```
sfdx force:org:create -s -f config/project-scratch-def.json
```

```
PS C:\Rajesh\SourceCode\SFDevTraining\dreamhouse-sfdx> sfdx force:org:open -u test-hltzopiutvd7@example.com
```

```
PS C:\Rajesh\SourceCode\SFDevTraining\dreamhouse-sfdx> sfdx force:source:push  
ERROR running force:source:push: No org configuration found for name s-brave
```

```
PS C:\Rajesh\SourceCode\SFDevTraining\dreamhouse-sfdx> sfdx force:user:permset:assign -n dreamhouse  
=== Permsets Assigned
```

```
PS C:\Rajesh\SourceCode\SFDevTraining\dreamhouse-sfdx> sfdx force:source:status  
=== Source Status
```

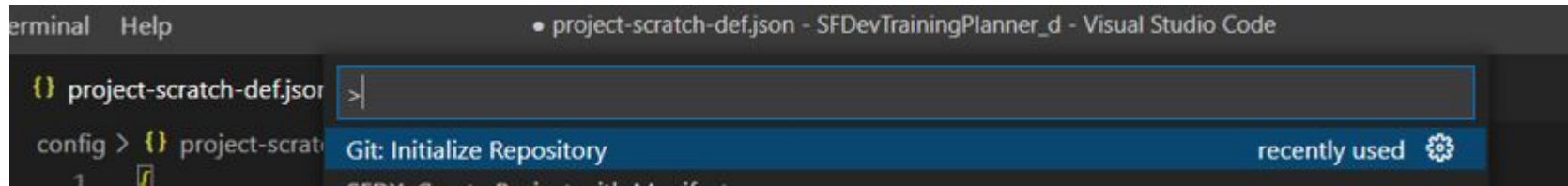
```
PS C:\Rajesh\SourceCode\SFDevTraining\dreamhouse-sfdx> sfdx force:source:pull
```

Demo

1. Create a SF project (Use either SF CLI or VS Code)
2. Create a scratch org
3. Create a github repo to manage our code
4. Make changes in local and push to scratch org
5. Make changes in org and bring back changes into the org
6. Checkin code into github source control


```
sfdx force:project:create --projectname SFDevTrainingPlanner_d --manifest
```

```
sfdx force:org:create -s -a SFDevTrainingPlanner_d -f config\project-scratch-def.json
```



```
git add .
```

```
git commit -m "Source code check in"
```

```
git remote add origin https://github.com/ShareAndShine/SFDevTraining_d.git
```

```
git push --set-upstream origin master
```

```
C:\Rajesh\SourceCode\SFDevTraining\SFDevTrainingPlanner_d>sfdx force:source:status
```

=== Source Status

STATE	FULL NAME	TYPE	PROJECT PATH
Local Add	index\index.html	LightningComponentBundle	force-app\main\default\lwc\index\index.html
Local Add	index\index.js	LightningComponentBundle	force-app\main\default\lwc\index\index.js
Local Add	index\index.js	LightningComponentBundle	force-app\main\default\lwc\index\index.js-meta.xml

```
sfdx force:source:push
```

```
C:\Rajesh\SourceCode\SFDevTraining\SFDevTrainingPlanner_d>sfdx force:source:status
```

```
=== Source Status
```

STATE	FULL NAME	TYPE	PROJECT PATH
Remote Add	Account.Account_Segment__c	CustomField	

```
C:\Rajesh\SourceCode\SFDevTraining\SFDevTrainingPlanner_d>sfdx force:source:pull
```

```
=== Pulled Source
```

STATE	FULL NAME	TYPE	PROJECT PATH
Add	Account.Account_Segment__c	CustomField	force-app\main\default\objects\Account\fields\Account_Segment__c.field-meta.xml

```
git add .
```

```
git commit -m "Source code check in"
```

For further reading

https://developer.salesforce.com/docs/atlas.en-us.sfdx_dev.meta/sfdx_dev/sfdx_dev_scratch_orgs.html