SFDX Demo

Before We Start

* Make sure Dev Hub is enabled
  + <https://developer.salesforce.com/docs/atlas.en-us.216.0.sfdx_setup.meta/sfdx_setup/sfdx_setup_enable_devhub.htm>
  + https://developer.salesforce.com/docs/atlas.en-us.216.0.sfdx\_setup.meta/sfdx\_setup/sfdx\_setup\_intro.htm
* Make sure you have Visual Studio Code installed
  + https://code.visualstudio.com/download
* Make sure you have the most recent Salesforce CLI Installed
  + https://developer.salesforce.com/tools/sfdxcli
* Make sure you have the Salesforce Extension Pack
  + https://marketplace.visualstudio.com/items?itemName=salesforce.salesforcedx-vscode

1. Connect to Prod/Devhub
   * sfdx force:auth:web:login -d -a DevHub
     + -d sets as default DevHub Org
     + -a sets the Alias for the org for easier use of access
2. Connect to Dev Sandbox
   * sfdx force:auth:web:login -r https://test.salesforce.com -a DevSandbox
3. Feel free to open either org
   * sfdx force:org:open -u ‘Alias’
4. Create a new project
   * sfdx force:project:create -n ‘project name’
5. Open folder in workspace in VSC
   * File->Add Folder To Workspace
   * Navigate to where you just created the project and Select the project you just created
6. In the Terminal in VSC navigate to the project
7. Now create a scratch org
   * sfdx force:org:create -s -f config/project-scratch-def.json -a ‘Alias’
8. Open up new Scratch Org
   * sfdx force:org:open
9. Create new visual force page through Dev Console
   * Name is HelloWorld
10. Go To VSC and pull down the new page
    * sfdx force:source:pull
11. You will now see the page in the force-app/main/default/pages folder in VSC
12. Open the page and paste the following code

<apex:page standardController="Account" recordSetVar="Accounts">

<h1>Hello World</h1>

<apex:pageblock>

<apex:repeat var="a" value="{!Accounts}" rendered="true" id="account\_list">

<li>

<apex:outputLink value="/{!a.ID}" >

<apex:outputText value="{!a.Name}"/>

</apex:outputLink>

</li>

</apex:repeat>

</apex:pageblock>

</apex:page>

1. Save the code and push it to org
   * sfdx force:source:push
2. In the org lets create some test data for Account
   * Lets create 3 accounts in this format
     + Test Account 1
     + Test Account 2
     + Test Account 3
3. To pull this data down from the org create a new folder in the project we created
   * mkdir data
4. Now lets pull the data from the org
   * sfdx force:data:tree:export -q "SELECT Name FROM Account" -d ./data
5. Lets make sure this is working
   * Open the page in the scratch org
   * Append apex/helloworld after the .com of the salesforce url
6. Nows lets deploy this class to our Dev Sandbox
7. First make a directory to hold the metadata
   * Mkdir mdapioutput
8. Next lets convert this into the Metadata api format
   * sfdx forcesfdx:source:convert -d mdapioutput/
9. Now lets deploy it to our dev Sandbox
   * sfdx force:mdapi:deploy -d mdapioutput -u ‘Alias’ -w 100
10. Next lets deploy the test data we created
    * sfdx force:data:tree:import --sobjecttreefiles data/Account.json -u ‘Alias’
11. That’s it lets open the org and see the page
    * sfdx force:org:open -u ‘Alias’

Extra:

* Retrieve source from specific Org or Alias
  + sfdx force:source:retrieve -u ‘Alias’ -x manifest/package.xml
  + If ran without -u ‘Alias’ will grab from default org, DevHub
  + Can use this to push code to scratch orgs
* Sfdx force:source:push –u ‘Alias’