Salesforce Integration with Exstream Using AWS

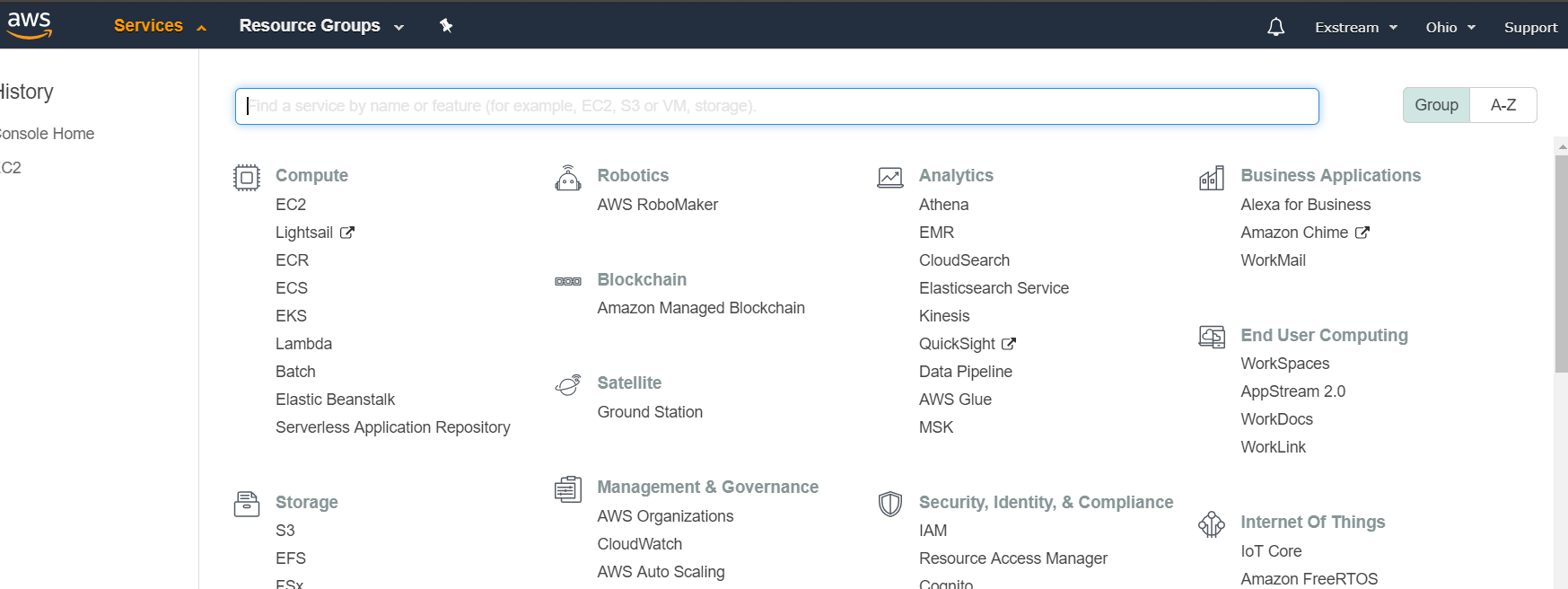
Important Point before making Integration

1. In order to integrate with salesforce all other third-party system should be on cloud.
2. Third party should expose their service.
3. We can make call out from salesforce using REST API or SOAP API.
4. To make call out from SOAP API we need WSDL.
5. To make call from REST API we http and OAuth2.0
6. We are integrating Salesforce with Open text Exstream using SOAP API.

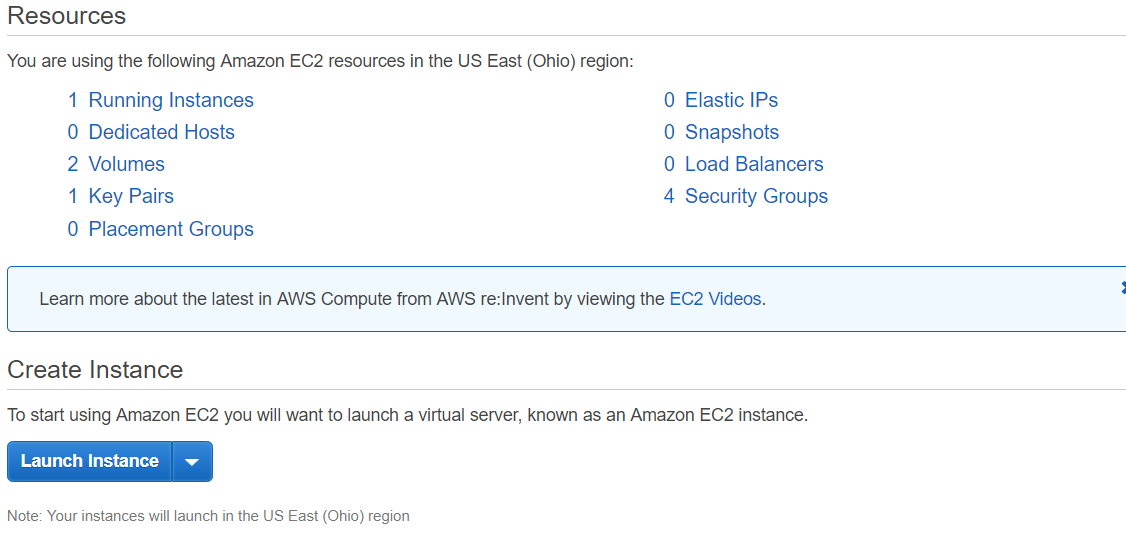
**Steps to involve:**

**AWS Setup:**

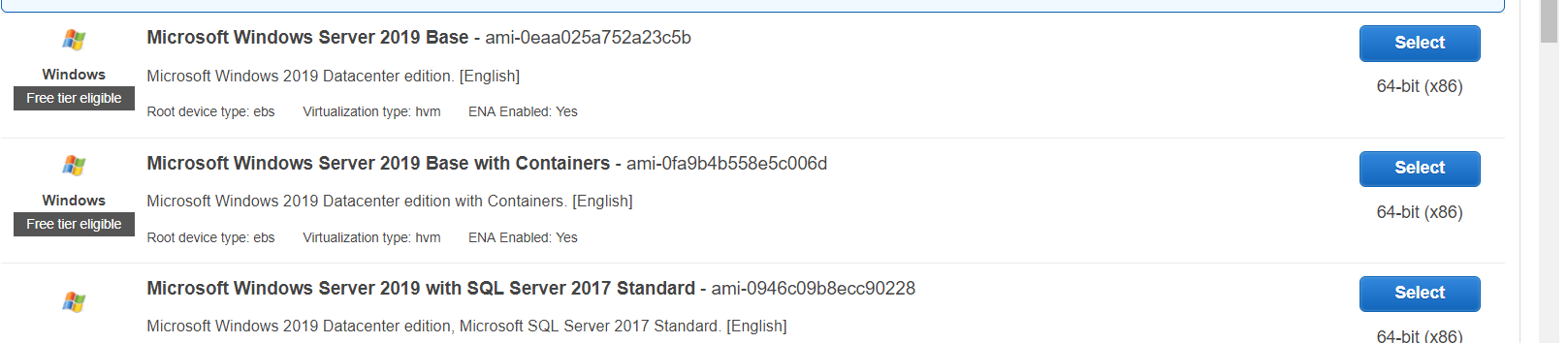
1. Since Exstream did not expose its service to cloud or open we need to setup Exstream on any cloud system, in my case I am using Amazon webservice.
2. Create a login credential in AWS server (console).
3. Login to AWS 🡪 Go to Service 🡪 Launce EC2 service.



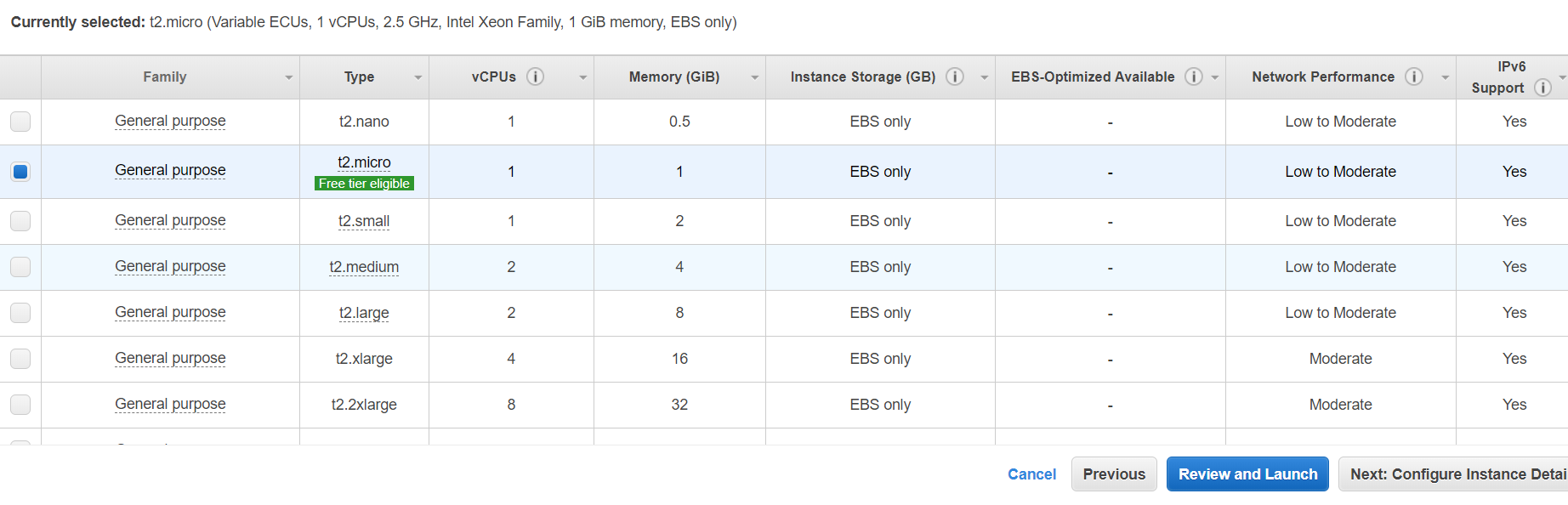
1. Click on EC2🡪Click on Launch Instance



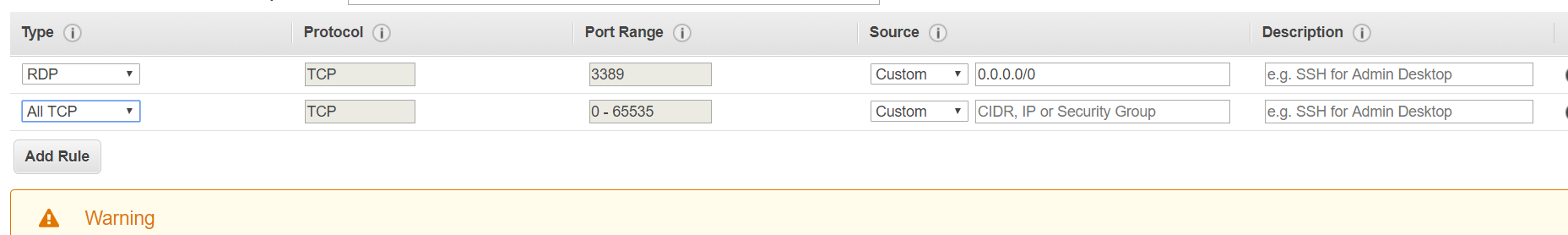
1. Select your preferred Amazon Machine Image(AMI). I have selected Windows



1. Once you select AMI you need to select Instance. I have selected free tier.



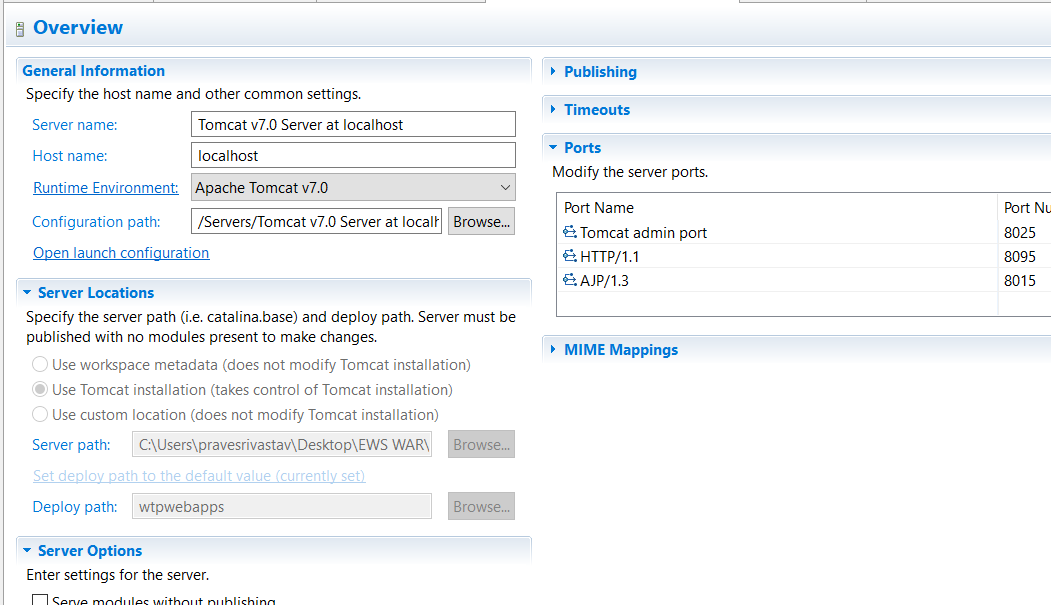
1. Configure Instance 🡪 Add storage🡪Add Tags🡪 Configure Security Group.
2. In security Group remove firewall setting so that you can access the service through public IP.
3. Select All TCP in Rule



1. Once your instance is launched you have to download and generate the key to open RDP.
2. Next time when you login come to service 🡪 click EC2🡪Check running instance to find the details.

**AWS RDP Setup:**

1. Download OpenText Exstream version of your choice.
2. Download Apache tomcat.
3. You can set up the server by using Eclipse or any other way. I have done using Eclipse.
4. Download Eclipse which support war file and web project.
5. In eclipse Go to 🡪 New 🡪 Other 🡪 Server🡪 Select Serer of your choice. I have selected apache tomcat version 7.
6. Configure the server provide the port number

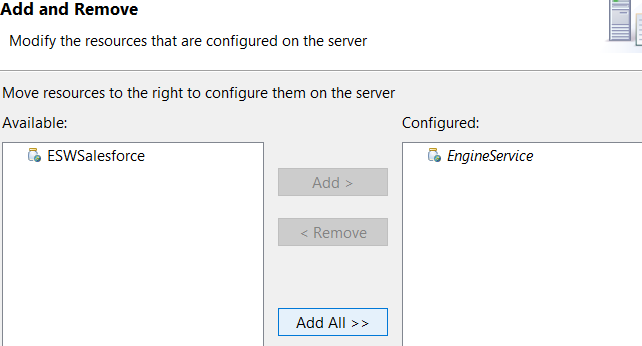


1. Make the server up and check if it is up and running.
2. Go to🡪 tomcat user.xml and add user id and password.

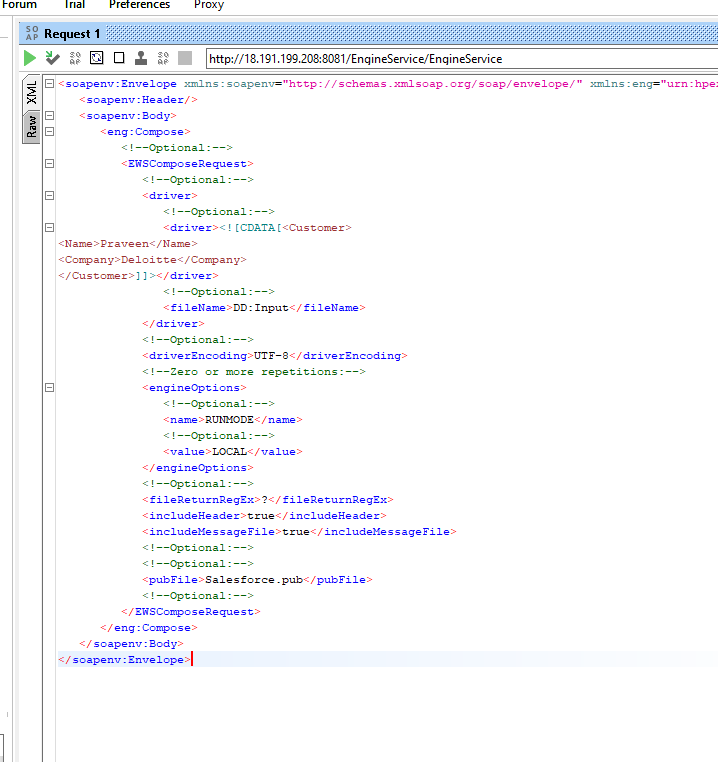
<role rolename=*"manager-gui"*/>

<user password=*"s3cret"* roles=*"manager-gui"* username=*"tomcat"*/>

1. Go to Manage app🡪Login to the server provided user name and password.
2. Deploy the war file provided by Exstream.
3. Once the war file got deployed🡪 Import war file in Eclipse to make changes and add this war file in Server.



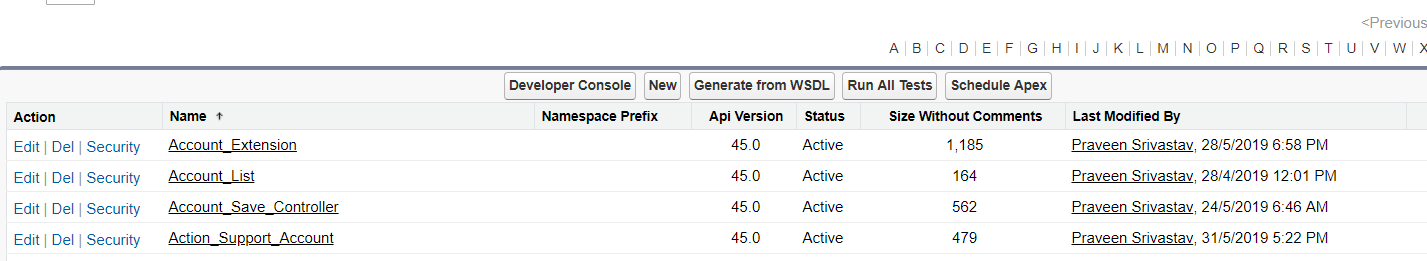
1. Configure the ews-config.xml to provide path of Exstream Engine🡪 Scratch folder🡪Output directory🡪Key🡪pub file.
2. Again restart the server so that modified location should reflect.
3. Once EWS is deployed properly you can get the WSDL by appending 🡪 EngineService?wsdl.
4. Download the wsdl and save it.
5. Open Soap request import wsdl🡪Remove local host with public ip🡪 provide the details as below



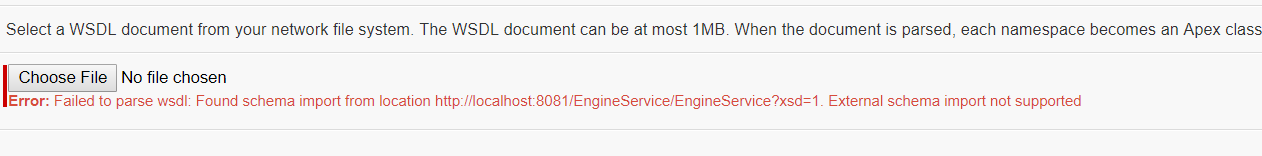
1. You can provide the base 64 value in input file instead of CDATA XML. Here I am assuming xml as an input.
2. Hit the soap request🡪 You will get response and output will be generated on provided path.

**Salesforce Integration:**

1. Login to salesforce.com🡪 Goto Apex Class🡪 Click on Generate from WSDL

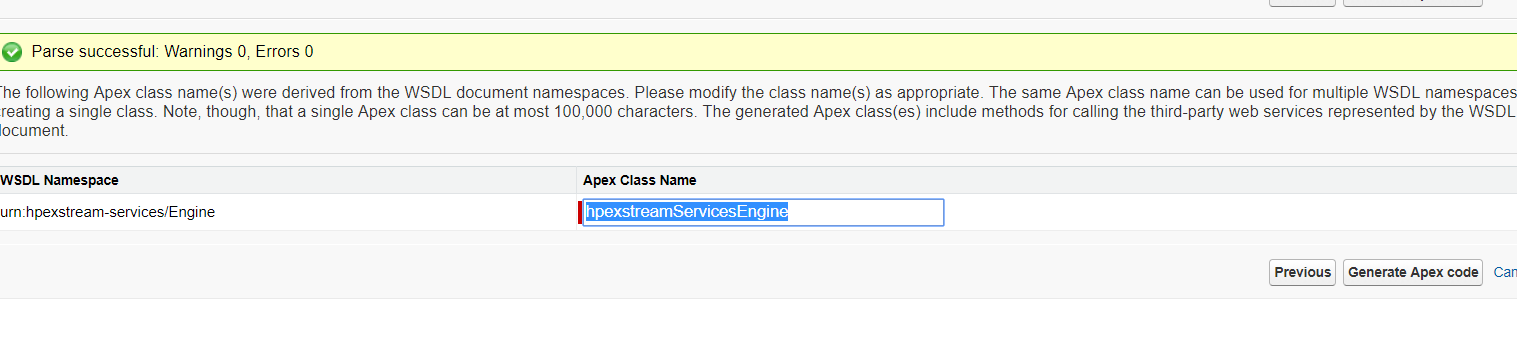


1. Select your wsdl file and import🡪 Parse wsdl
2. You will get an issue as below🡪 Since schema xsd is on local host Salesforce is not able to identify 🡪 remove xsd :schema and provide xsd in sdl





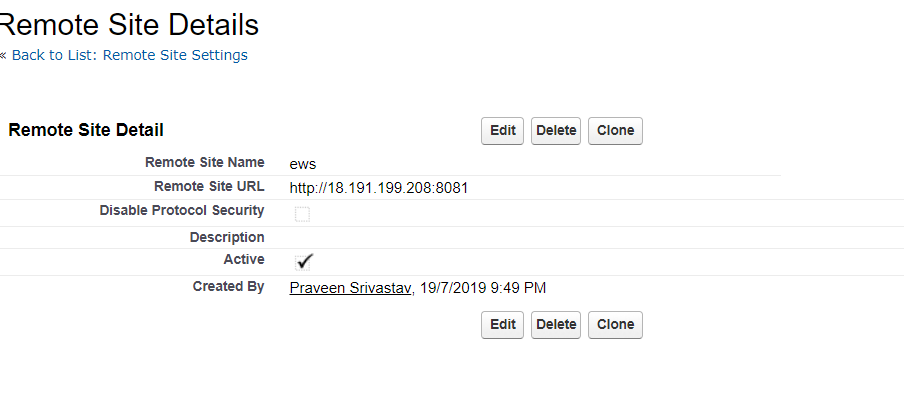
1. Once you modify wsdl and again import 🡪 Once parsing wsdl is successful🡪 It will create apex class.



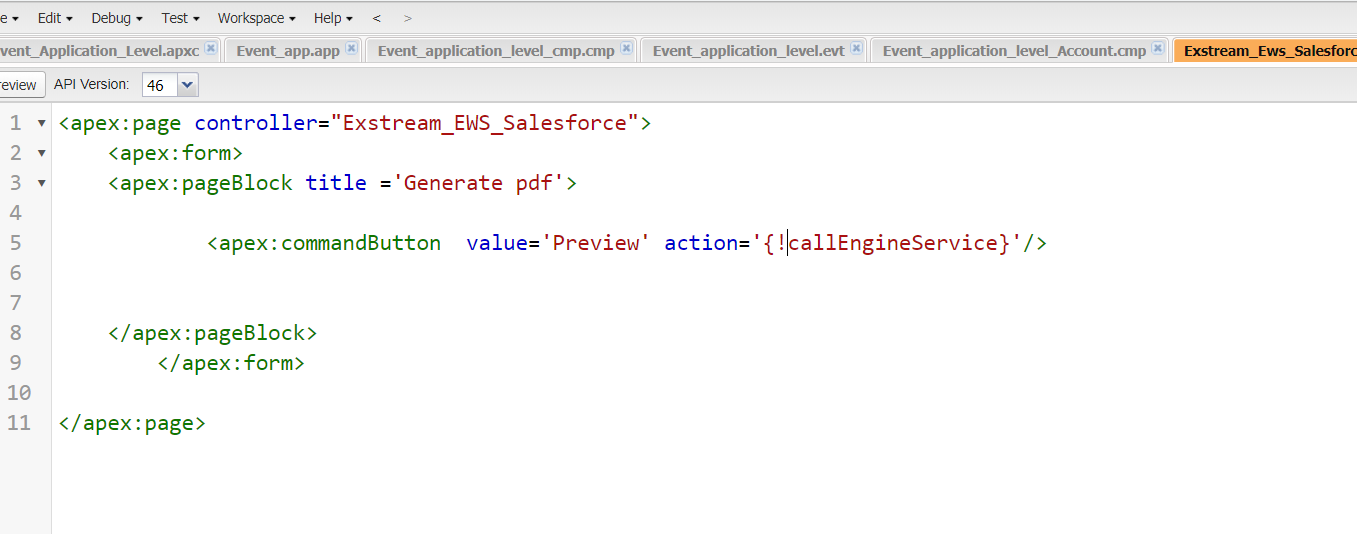
1. Generate apex code .There are two classed will be created 1. AsyncHpexstreamServicesEngine and 2. hpexstreamServicesEngine.
2. hpexstreamServicesEngine this class will through error because of Exstream Engine class is not througing Expection 🡪 add extends Exepection.

   public class EngineServiceException extends Exception {  
        public String faultInfo;  
        public String message;  
        private String[] faultInfo\_type\_info = new String[]{'faultInfo','urn:hpexstream-services/Engine',null,'0','1','false'};  
        private String[] message\_type\_info = new String[]{'message','urn:hpexstream-services/Engine',null,'0','1','false'};  
        private String[] apex\_schema\_type\_info = new String[]{'urn:hpexstream-services/Engine','false','false'};  
        private String[] field\_order\_type\_info = new String[]{'faultInfo','message'};  
    }

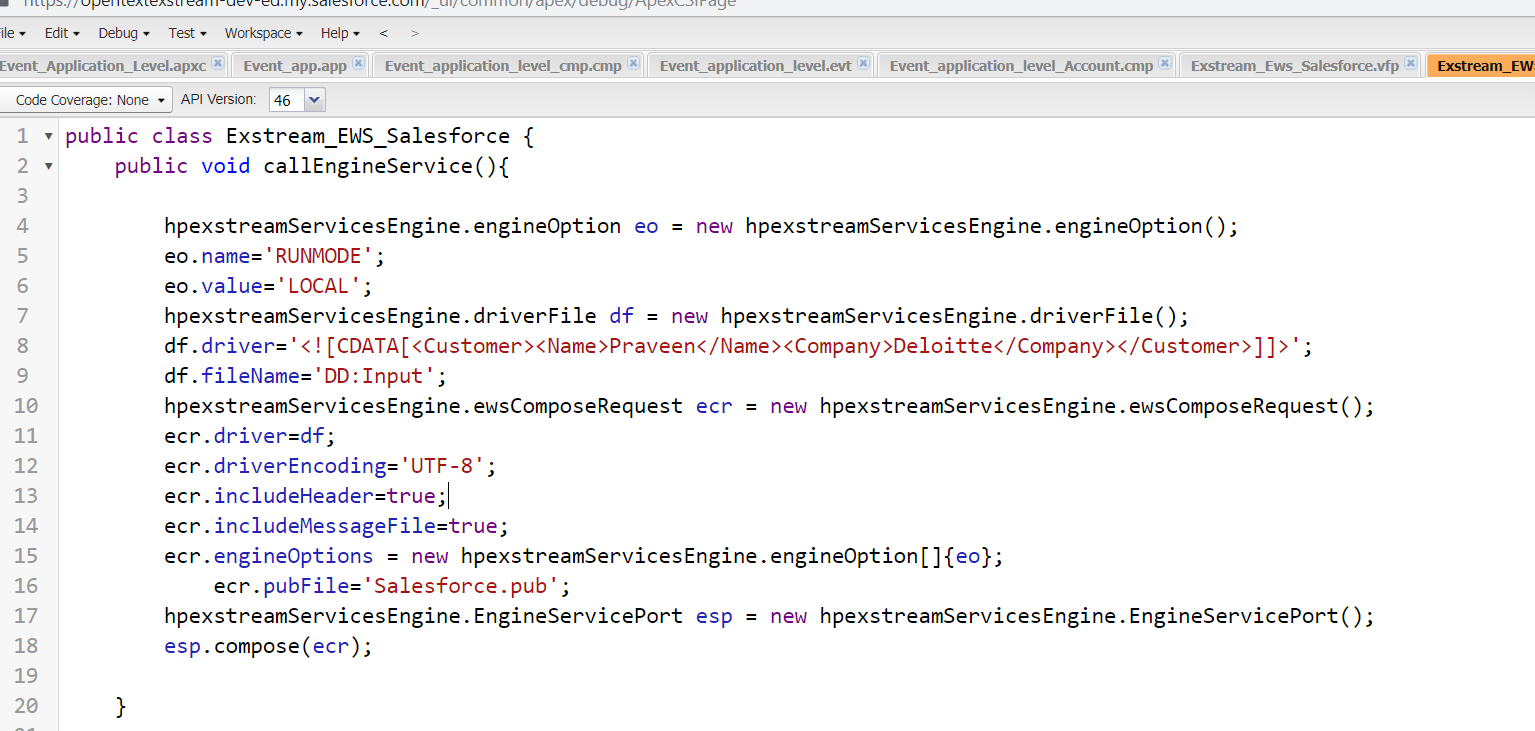
1. Once both the class successfully Created.
2. Go to Remote site setting 🡪 Add end point URL so that Salesforce can make a call.



1. You need to create vf page in case you want to create pdf on button click and apex class to call the webservice and hit the engine.
2. VF page:



1. Apex class:



1. Once you preview the vf page and hit the button it will call apex class method and create pdf at your location.
2. If you wanted to show pdf instantly we need to read the webservice response and get the output in response convert in pdf.