APN Blog

Coarse Location Tracking with AnyNet Secure SIM and AWS IoT

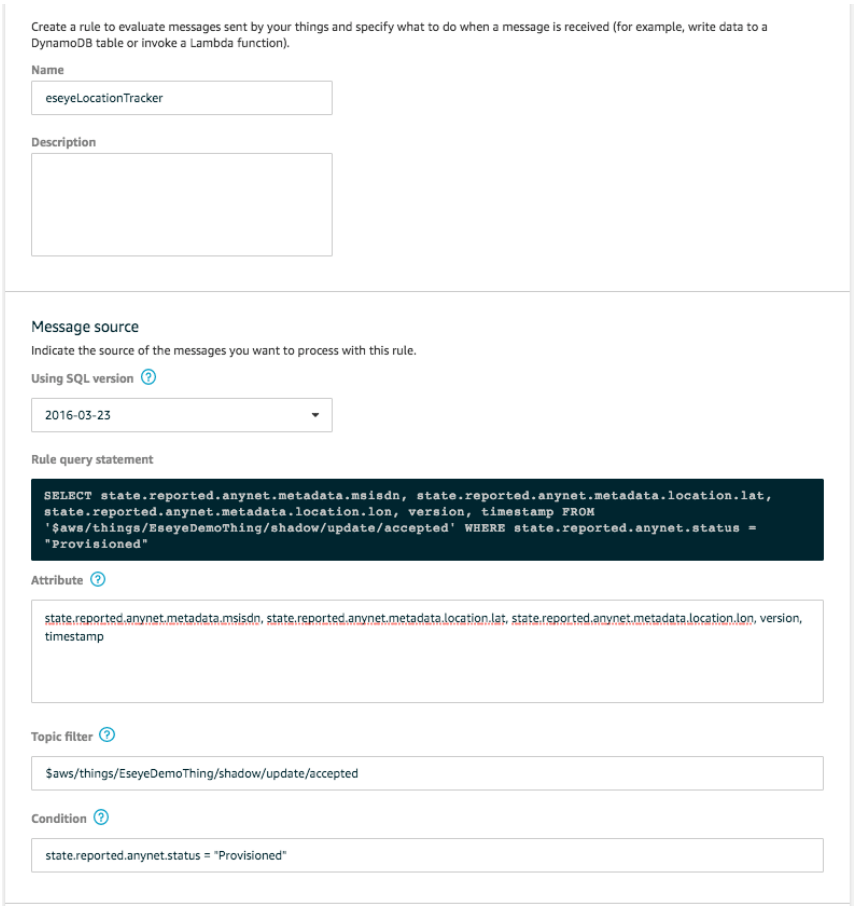
Appendix III – Create IoT Rule to Send Data to AWS IoT Analytics

Follow the steps below to create an IoT rule and add actions to republish the message and send data to IoT Analytics.

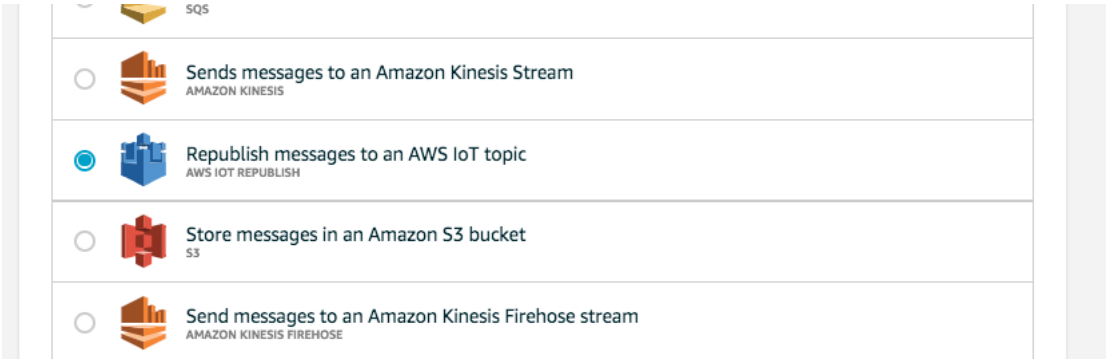
1. *Create a new rule filter using following values:*

    a. **Attribute**
    `state.reported.anynet.metadata.msisdn, state.reported.anynet.metadata.location.lat, state.reported.anynet.metadata.location.lon, version, timestamp`
    b. **Topic filter:** *We'll use the shadow accepted topic*
    `$aws/things/<Your Eseye Thing Name>/shadow/update/accepted`

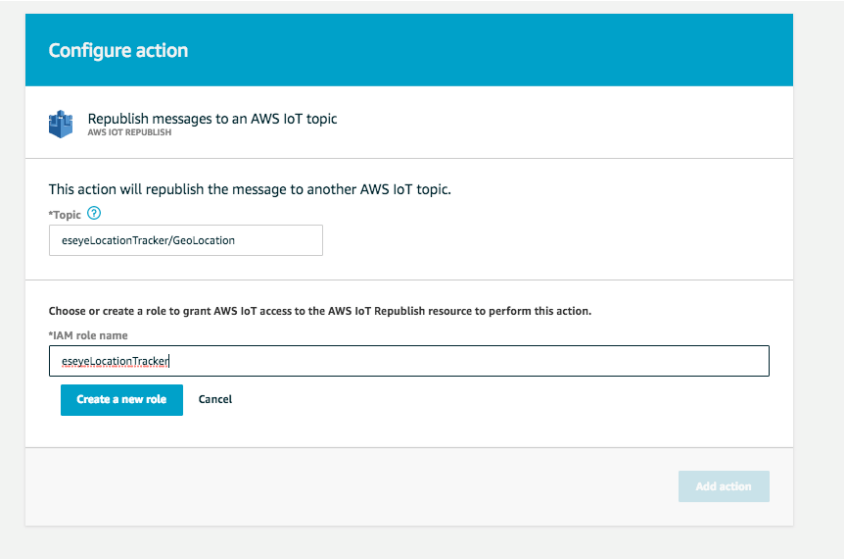
    c. **Condition:**
    `state.reported.anynet.status = "Provisioned"`



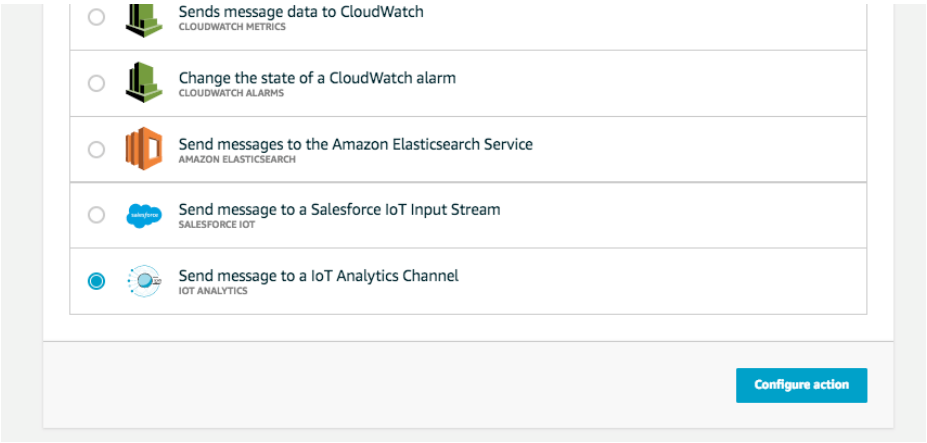
2. *Add action to republish message to AWS IoT:*



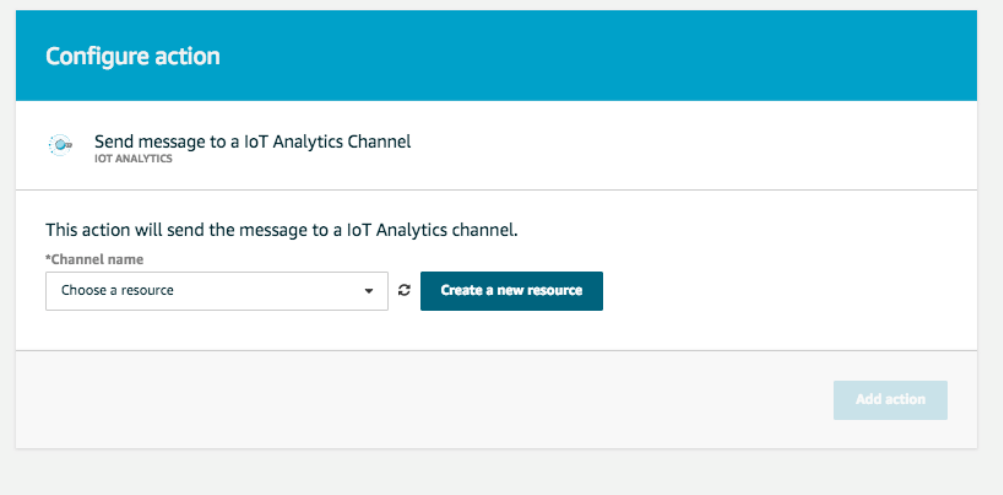
3. *Create a new topic "eseyeLocationTracker/GeoLocation" and click on "Create a new Role":*



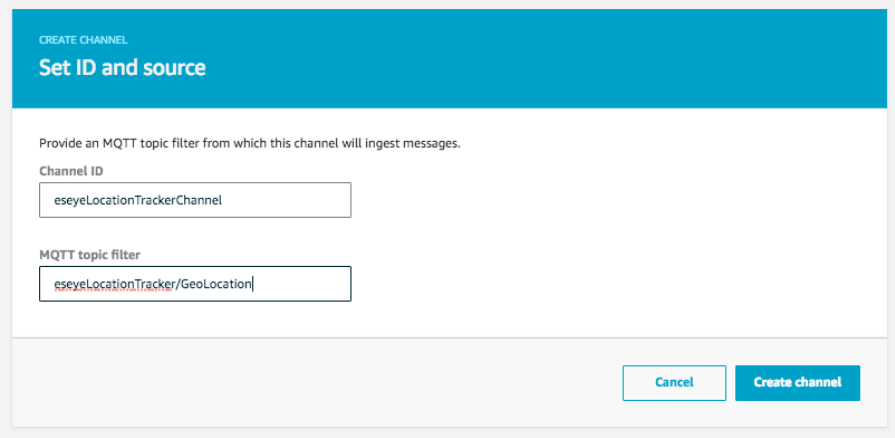
4. *Click on “Add action” button and select “Send message to IoT Analytics Channel”:*



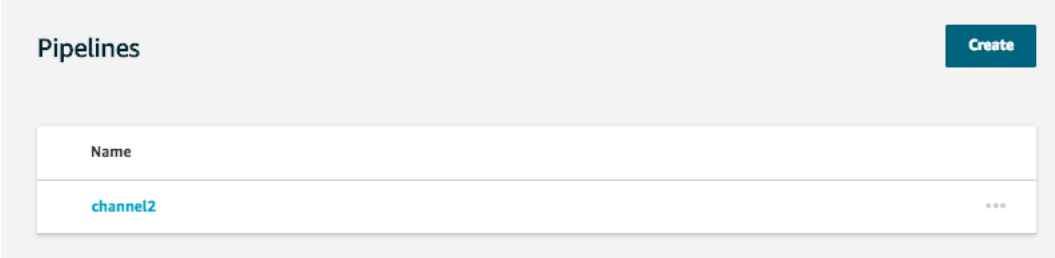
5. *Set up AWS IoT Analytics*
    a. *Click on "Create a new resource" button:*



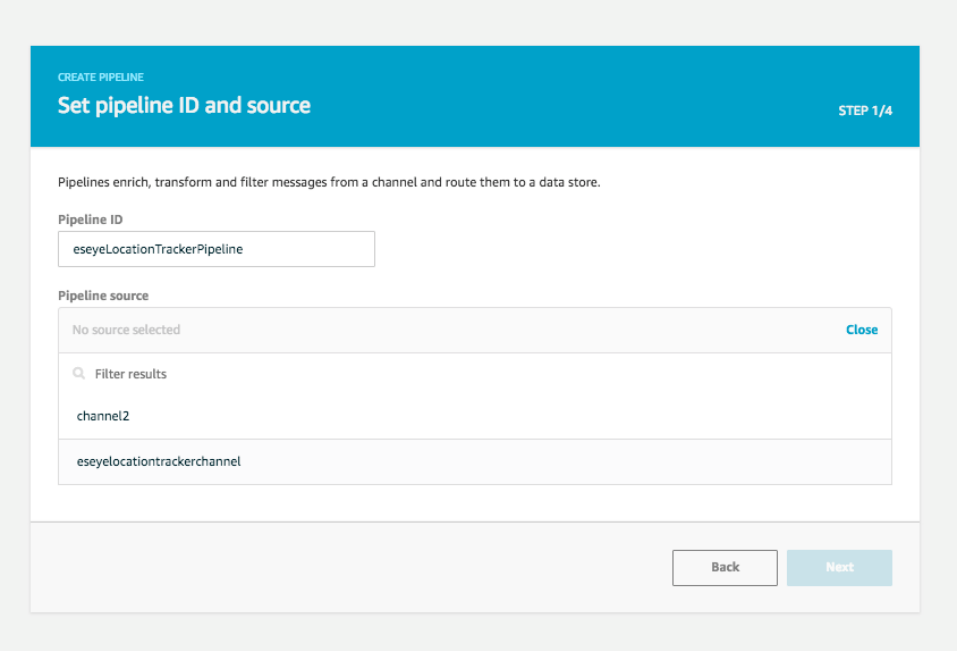
b. *Provide a unique name to the Channel ID, and then paste the topic you created to republish the message:*



c. *Click on create button on the top:*

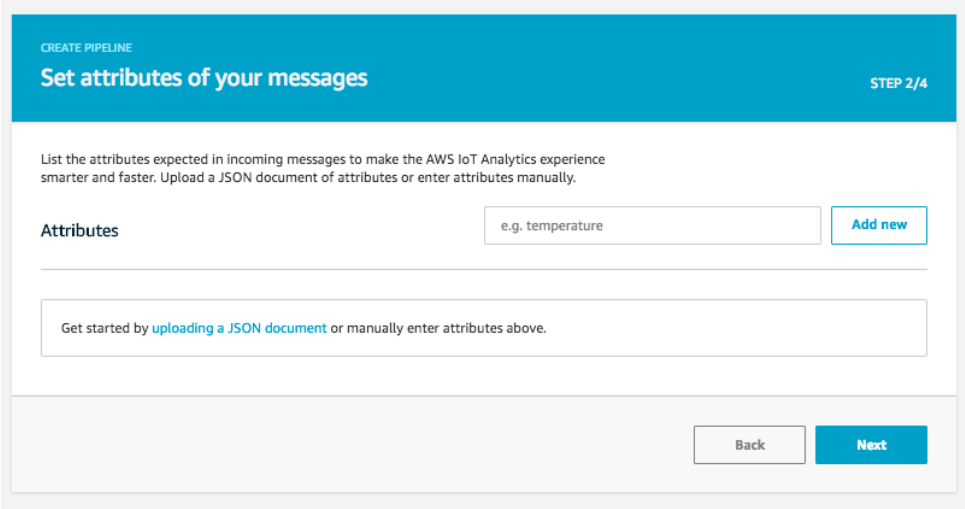


d. *Provide unique name for the pipeline and select source from dropdown.*

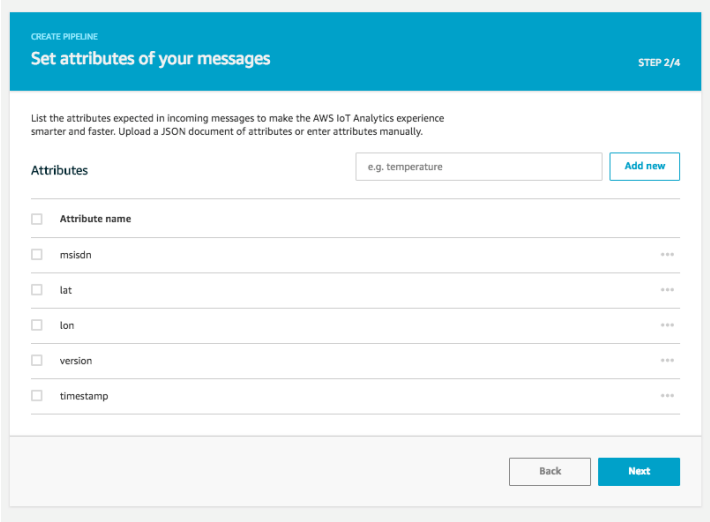


e. *Download the file below and save it in a local folder eseye.json.*

f. *Click on uploading a JSON document and select the file you just downloaded:*



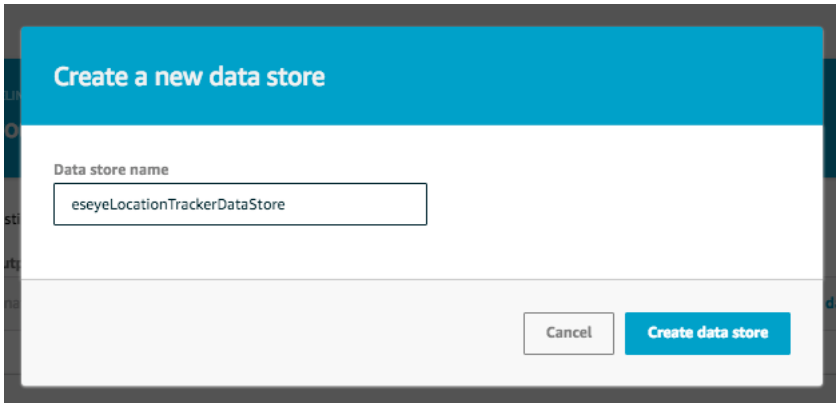
g. *Once uploaded, the console will parse the JSON and populate the screen:*



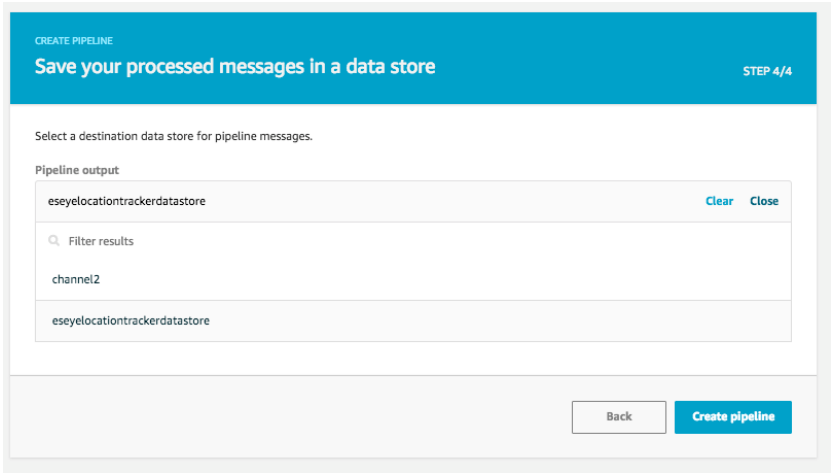
h. *Click next.*

i. *Click on "Create new data store."*

j. Give a unique name:

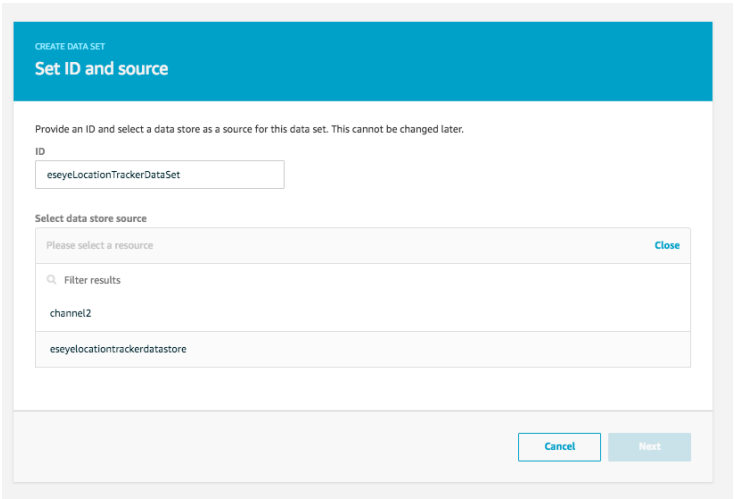


k. Select the data store you just created:

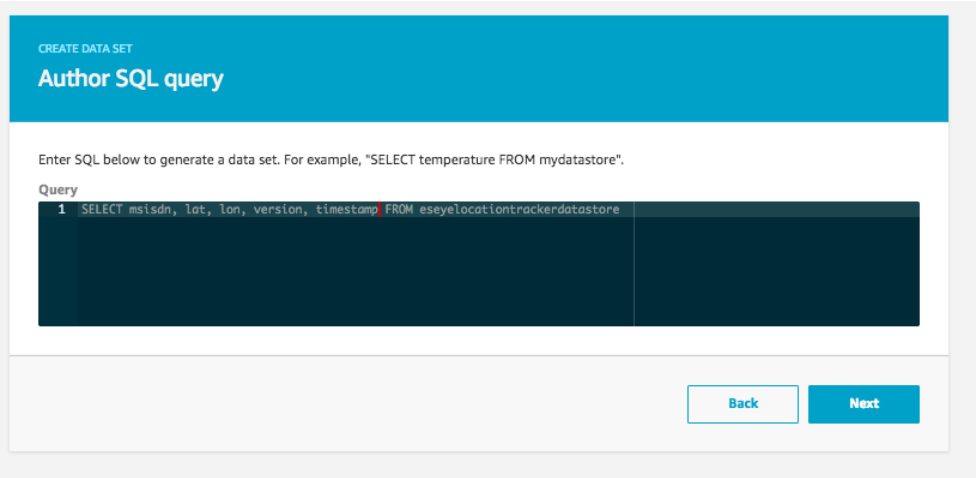


l. Click the create button.

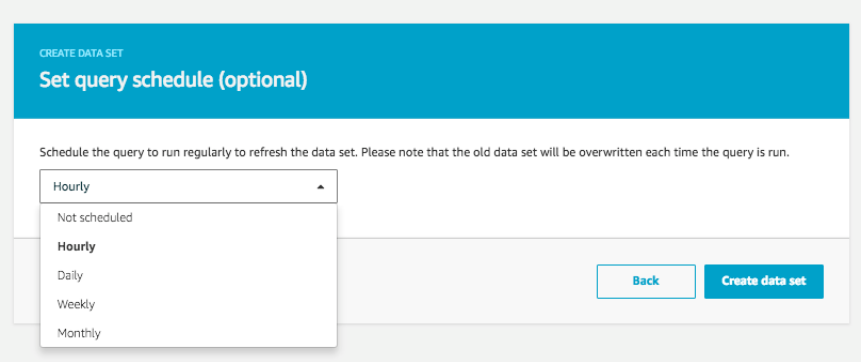
m. Select the data store you created:



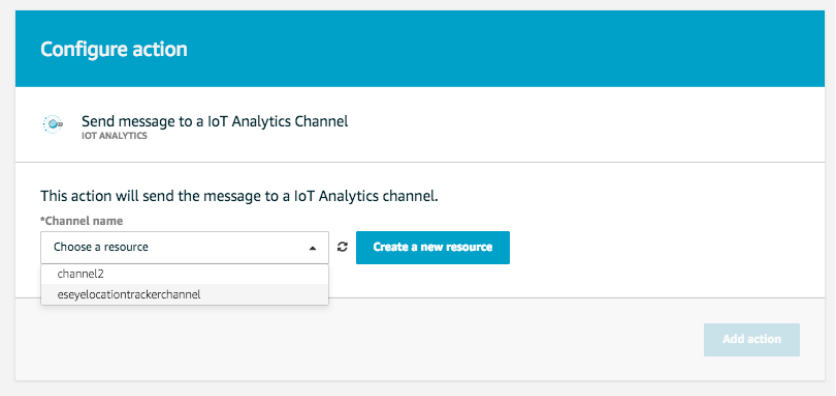
n. *Replace * with the following to create the SQL statement:* `msisdn,lat,lon,version, timestamp`



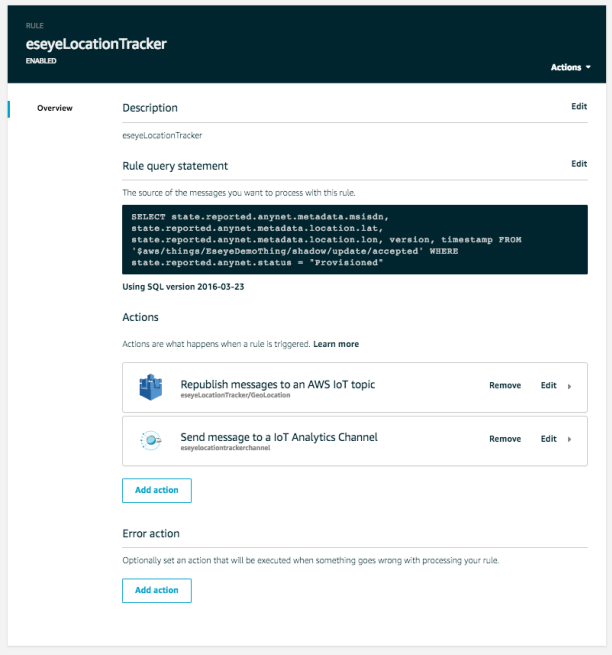
o. *From the dropdown, select hourly as schedule:*



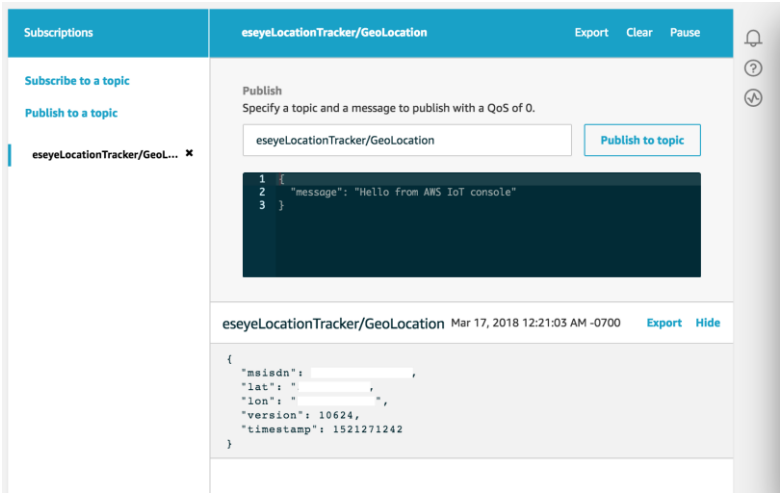
p. *Let's go back to the rules screen and press the refresh Icon, and then choose the channel we just created from the drop down.*



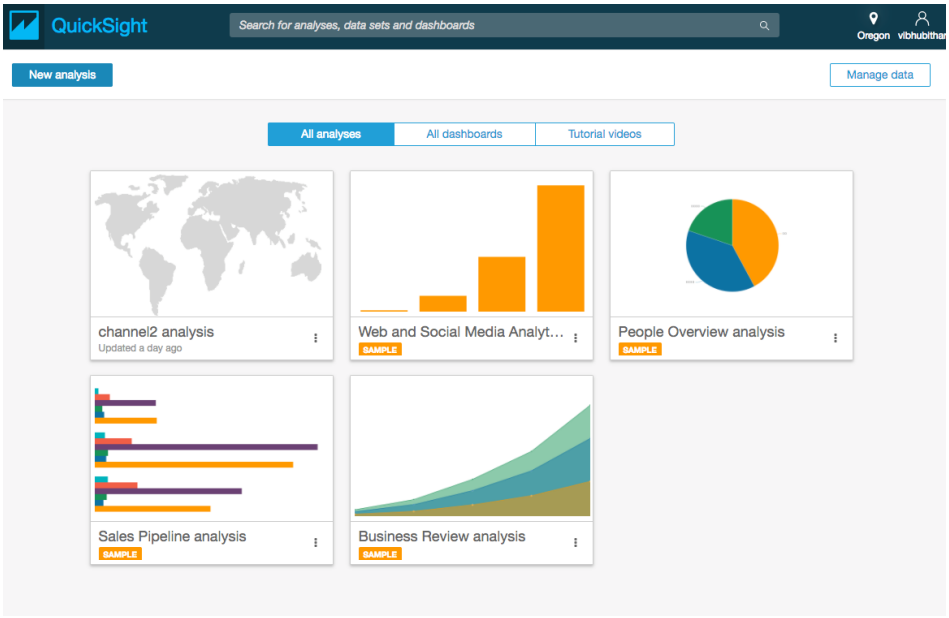
6. *In the end, it will look like this:*



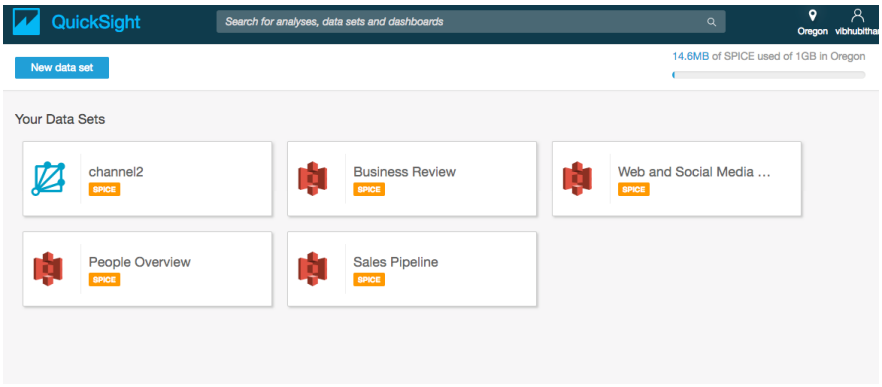
7. *To test trigger Lambda and monitor "eseyeLocationTracker/GeoLocation" topic:*



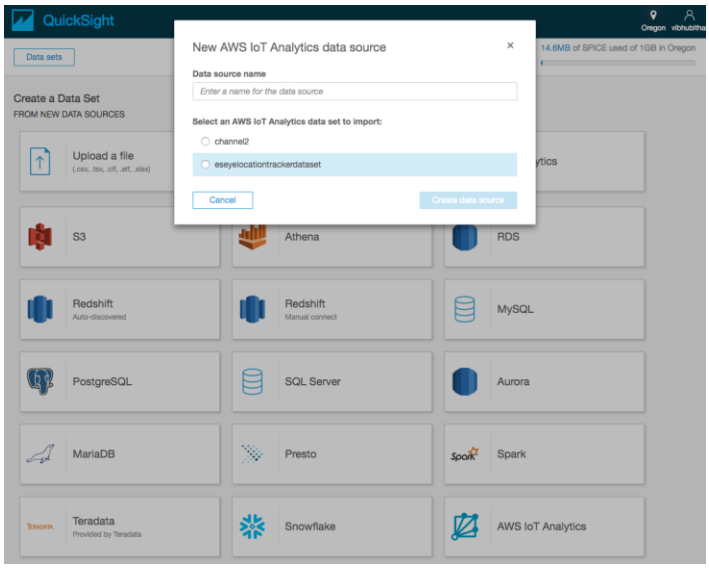
8. *Connect Amazon QuickSight to AWS IoT Analytics dataset to visualize the data*
    a. *Click on "New Analysis" button:*



    b. *Click on "New data set":*



c. *Select the dataset created as part of AWS IoT Analytics and click "Create data source":*



d. *Once the data import completes, click the visualize button:*

e. *Finally, lick on the geospacial icon at the bottom of the screen and add latitude and longitude:*