HERE Geo Enrichment Template

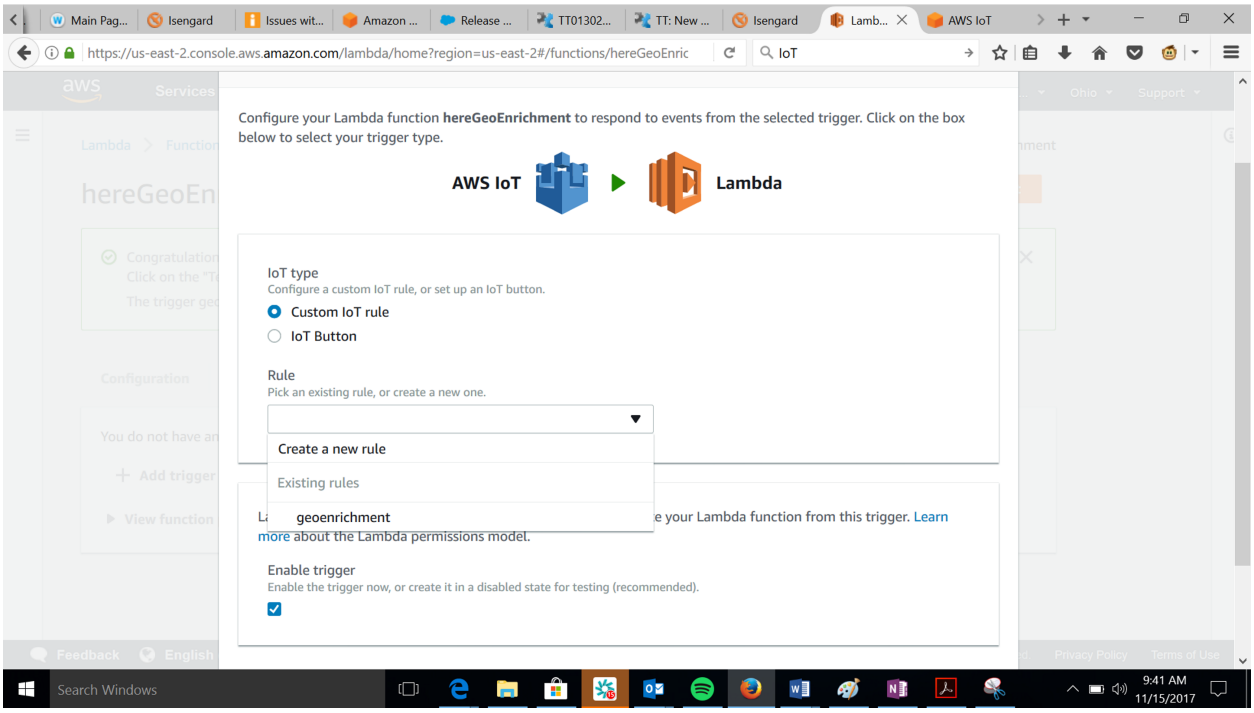
Readme

HERE Technologies provides geo-enrichment services which may called in AWS IoT rules to enrich IoT messages or take geolocation based actions. This is repo provides a python template for a lambda function which maybe called from SELECT or WHERE statements of the rule to check if coordinates are inside a geofenced region.

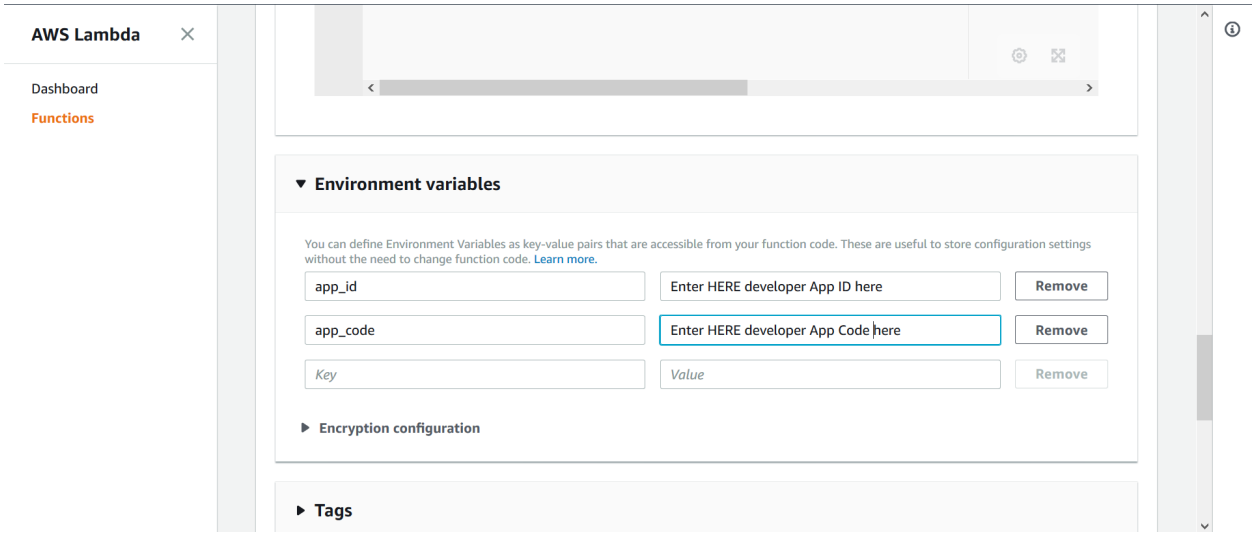
Pre-requisites: HERE developer account, a valid geo-fence layer. Please refer HERE documentation to learn how to upload a layer for geo-fencing.

Set-up:

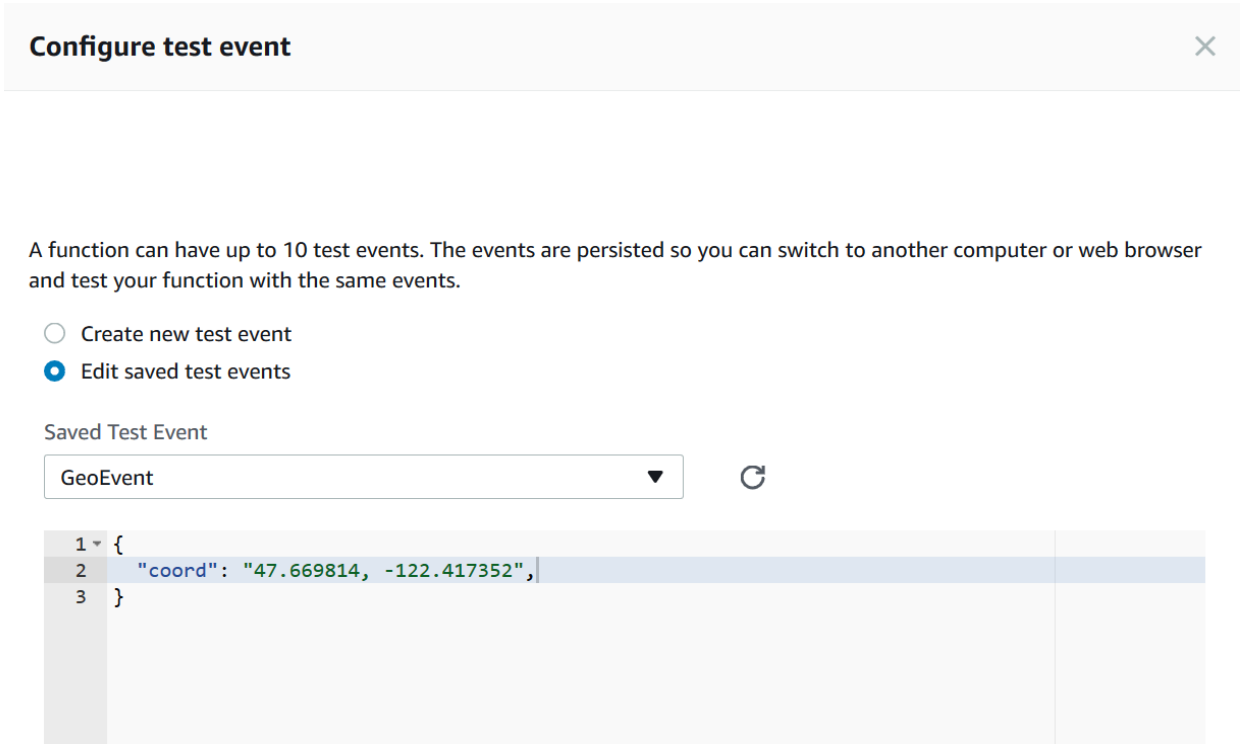
1. Set-up a Lambda Function with Python 2.7
2. In the “Triggers” tab set-up an AWS IoT trigger for your Lambda Function. Select the rule you want to trigger your lambda function from. See next section to learn how to set-up an IoT Rule.



3. Copy the sample code into editor and enter **app_id** and **app_code** as environment variables.

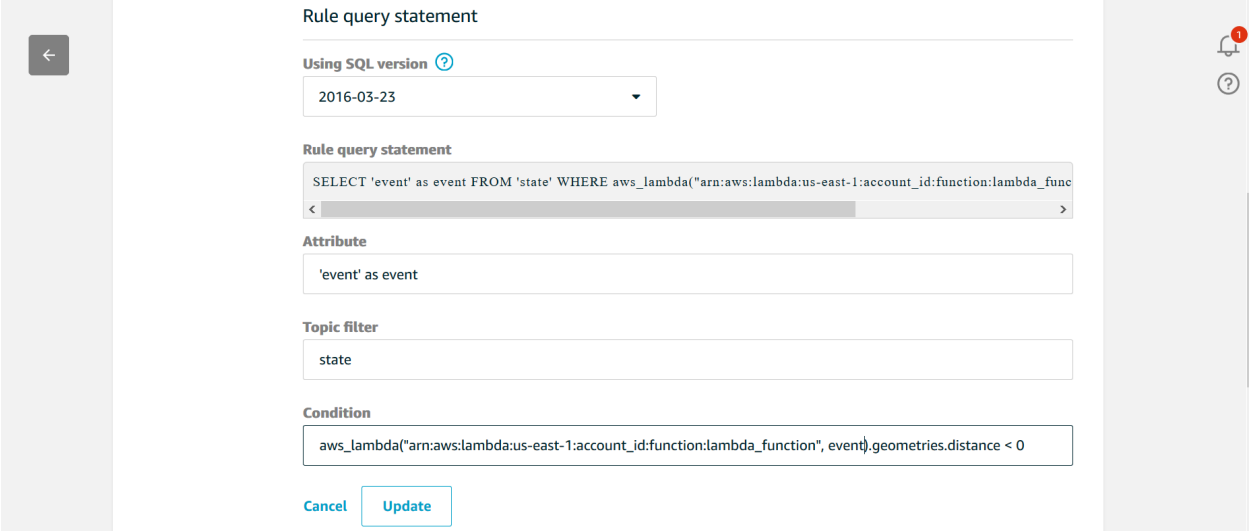


4. Save and Test. Use the following event as the test event:



Instructions on setting up an IoT Rule

1. Navigate to the **Act** section in the IoT console.
2. Create a Rule, and edit the SQL query to add your Lambda Function as a condition (to the WHERE clause)



Note: the “event” variable is assumed to be a JSON structure containing the coordinates (in an attribute “coord”) to be used in the Lambda Function.

3. Configure the Action(s) you wish to take to act on the geofencing information returned by the Lambda Function. Refer the full documentation on AWS IoT Rules here.