

#### Lab1:

- 1) Policy- Iot core-> Secure-> policy (iot:\*, \*)
  - 2) Things- Iot core->Manage->Things (default) and download the certis (Attach the policy
  - 3) In python code: change the thing name and for the Configure endpoint: (put url of thing-> interact-> copy)
  - 4) Subscribe to a topic: Create a topic in the subscribe part (by going to test in Iot core). Run the python file and see if the msg from python is sent to the AWS test client
  - 5) Publish to a topic: Once again create a topic in the subscribe part and then, run the publish code of python and go to test-> publish the topic msg-> input will be seen in the python file-> input any key to exit
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#### Lab4:

1. CHANNEL: Iot analytics-> channel-> storage type( AWS manage store)-> topic filter(update/environment/#) -> IAM role-> create new
  2. DATASTORE: datastore (channel page)->create-> id-> next-> AWS managed->JSON(data format)
  3. PIPELINE: create->id->pipeline source(prev made channel)-> set attributes->(enter the attribute)(type: numeric and string)-> no activities chosen-> next-> edit-> (select the data store)
  4. DATASET: create-> create sql-> id-> edit datastore-> sql query-> next->next->create
  5. CORE IOT: Publish update/environment/1 and click publish
  6. Monitor-> check the current successful connection tab
  7. Iot analytics-> dataset-> side panel(Actions)-> run now-> check the results in result preview
  8. SAGEMAKER: sagemaker-> notebook instance-> fill the details-> new roles->make the note of ARN
  9. IAM console (to grant permission): modify sagemaker role-> open the role-> managed policy-> add inline policy-> get dataset content-> review-> name and create policy
  10. Analytics console-> notebook-> create->choose blank notebook-> setup page( enter name)-> select data set (dataset created)-> select notebook instance(previously created)
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#### Lab9-

##### UPLOADING DATASET:

Iot core-> act-> rule->create a rule-> select query as per the topic-> select action-> republish  
AWS-> update/environment/1-> create role->create role  
Run publish file-> goto Iot analytics-> dataset-> run now-> see the data being loaded

SNS:

topic-> fifo-> name-> create

subscriptions-> create subscriptions-> choose topics arn(select the topic prev made)->

protocol(email)-> create-> in email box-> confirm subscription->

topics-> publish message-> enter message details->check mail

lot core-> create rule(refer above)->add action as sns-> add action and create rule

test-> topic1-> subscribe-> run python file-> check mail

Lambda:

Lambda console-> create function-> use a blueprint-> hello world-python ->

configure->functionname->create a new role from aws policy templates-> role name-> add

policy(sns publish policy)-> configure

Goto lambda.py-> copy the code-> and change the sentence to be displayed-> add

variable->deploy

Copy the arn of sns topic

lambda->test-> add the json file-> paste arn of sns-> invoke

create rule-> (as referred above)-> add lambda as action

test-> topic1-> subscribe-> run python file-> check mail

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