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Aim: Implementing a serverless Anchitecture on Aws Description: This lab demonstrates how to trigger a lambdo function when a file is uploaded to Amazon Simple storage Service (Amazon 53). The file we'll be loaded into a Amazon Dynamons table. The data will be available for you to view on a dashboood page that retrieves the data directly

## Task 1:

- on the services menu, choose Lambda
- choose Create function

from Dynamo DB.

- Configure the following setting:
  - o function rame: Load-Inventory
  - o Runtine: Python 3.7
  - o Expand Choose or create an execution role.
  - o Execution rule: use an exurcting role
  - Existing stole: Lambda-Load Inventory-Role
  - choose Create Function.
  - In the code source editor, copy + paste the following rade:
- \* choose [Deploy | to save your charges

Taskz: Configuring an Amazon s3 event

- on the services menu, choose sz
- choose create bucket X
- For Bucket name enter: inventory 2 number> \*
- choose create bucket XD
- choose the name of your inventory-bucket \*

choose the proporties tab

scroul down to trent notifications

Click Preate event notification then Configure these settings.

- · Name: Load Inventory
- · Event types: All object create events
- Destination: Lambda function
- o Lambda function: load Inventory
  - o choose save changes

Tack 3: Testing the loading process

Douenload the Enventory files by opening the Context menu for

these links

enventory-benlin.csu

enventory-calcutta.com

inventory - Karchi. Cst

choose objects tab Choose upload \*

choose Add files 4

From the Credentials window, Copy the Dayhboard ope

on the services menu, choose DynamoDB

do choose Tables

choose the Inventory table

Choose the Items tab.

Task 4: Configuring Notifications

on the services menu, choose Simple Motification service

enten: Nostock.

choose create topic

o Protocal: Email

o EndPoint Enter your Email address o choose Create Subscription.



Easks: Creating a lambda function to send notifications

- on the senices menu, Choose lambda
- Choose Create function
  - o function name: check-stock
  - · Runtime: python 3.7
  - e Enpand Choose or create an enecution made
  - · Execution vole: use an excisting role
  - o Chouse Create function
  - \* Choose Deploy to save your code changes
  - scroll to the besigner section
  - choose fand trigger
    - o select a trigger: Dynamo DB
      - e Dynamoor Table: Inventory
        - o choose Add

Task 6: Testing the System

- \* on the sources menu, choose s3
- \* choose the name of your Enventory-bucket
- choose upload
- \* Return to the Inventory System Doushboard + retresh the page.

submitting your work

Choose [submit | and then Chick on [End lab