

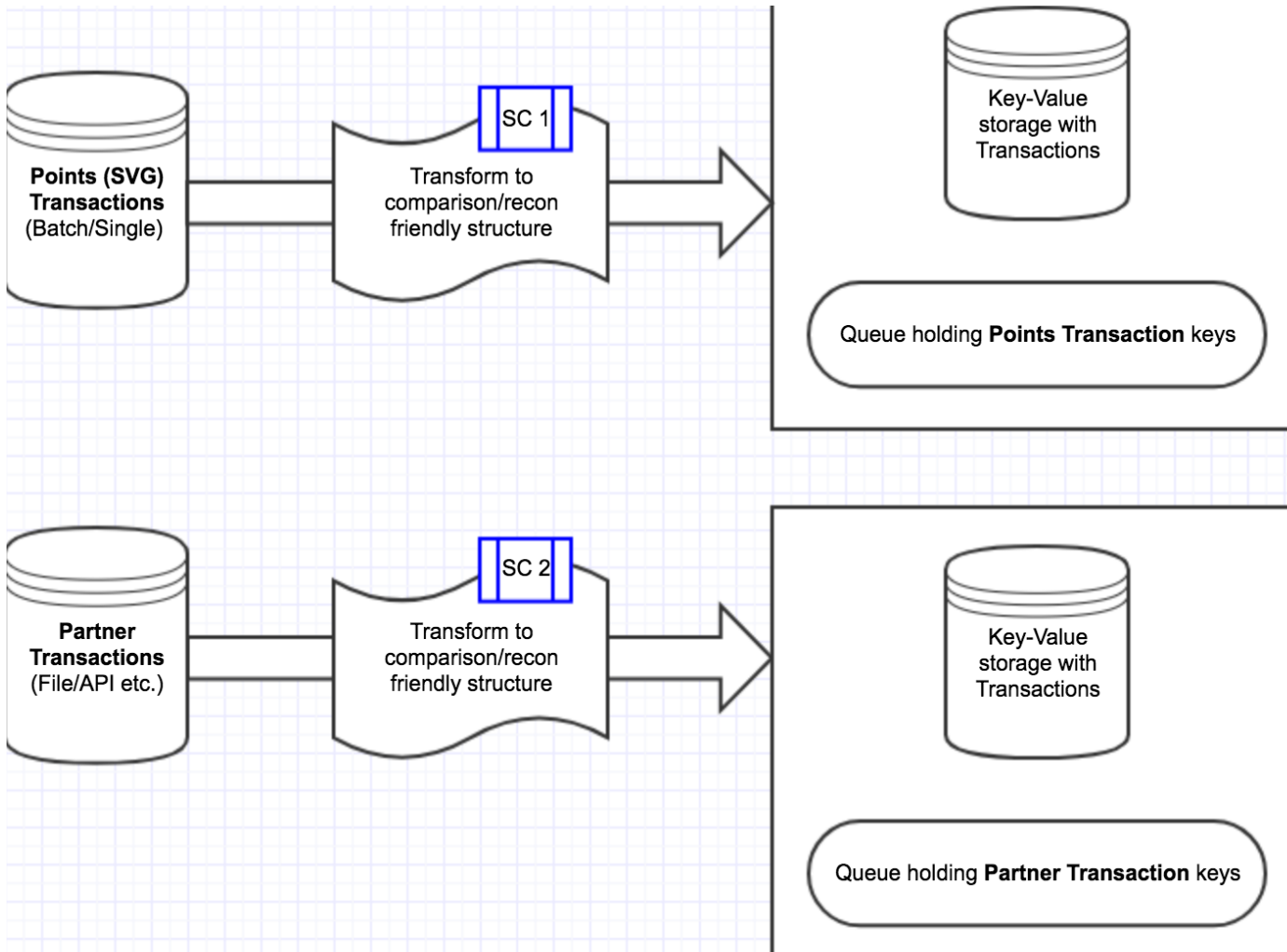
Incentive Reconciliation to AWS

Expedia - FCTS

Introduction

- ▶ Writing CFT scripts for allocating and linking various AWS resources.
- ▶ Linked those resources within.
- ▶ Deployed them on MAUI framework.

Components



Component #1

- ▶ API Gateway
- ▶ Lambda
- ▶ DynamoDb
- ▶ SQS

Brief summary: Any call to API Gateway triggers a lambda which executes code storing data in Dynamo and SQS.

Component #2

- ▶ S3
- ▶ Lambda
- ▶ DynamoDb
- ▶ SQS

Brief summary: An object creation in S3 will trigger a lambda which executes code storing data in Dynamo and SQS.

Component #3

- ▶ AWS Lambda (Triggered via scheduled cron)

Some Snapshots

► Triggering API

Filter

HistoryCollections

Clear all

▼ July 4

POST

https://8jm4hq2uab.execute-api.us-west-2.amazonaws.com/LATEST/greeting

POST

https://8jm4hq2uab.execute-api.us-west-2.amazonaws.com/DummyStage/greeting

POST

https://kvcaqd7pu9.execute-api.us-west-2.amazonaws.com/DummyStage/greeting

POST

https://xit62k5e37.execute-api.us-west-2.amazonaws.com/DummyStage/greeting

POST

https://xit62k5e37.execute-api.us-west-2.amazonaws.com/LATEST/greeting

POST

https://18owiozdb7.execute-api.us-west-2.amazonaws.com/LATEST/greeting

POST

https://72996dbpba.execute-api.us-west-2.amazonaws.com/LATEST/greeting

POST

https://3j4q4vbxcc.execute-api.us-west-2.amazonaws.com/LATEST/greeting

POST

https://3j4q4vbxcc.execute-api.us-west-2.amazonaws.com/greeting/LATEST

https://3j4q4vbxcc.execute-api.us-west-2.amazonaws.com/LATEST/greeting

https://8jm4hq2uab.execute-api.us-west-2.amazonaws.com/LATEST/greeting

+

No Environment

Send

Save

POST

https://8jm4hq2uab.execute-api.us-west-2.amazonaws.com/LATEST/greeting

Params

Authorization

Headers (1)

Body

Pre-request Script

Tests

form-data

x-www-form-urlencoded

raw

binary

Text

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

{

"transactions": [{

"transaction_reference": {

"transaction_date": "2017-06-27T05:32:52Z",

"transaction_id": "816527-770326",

"transaction_resource_id": "F7D81C9D-258D-4341-A1C5-94B8F5E0787F",

"provider_reference_id": "c39aeb48-333e-499d-b729-77bd956fa976",

"operation_type": "adjustments",

"client_transaction_reference_id": "00b6bb0d-d48b-4779-89b9-5bcc5b869454",

"client_request_reference_id": "00b6bb0d-d48b-4779-89b9-5bcc5b869454",

"header_request_id": "C39AEB48-333E-499D-B729-77BD956FA976",

"header_transaction_id": "CF267419-4576-412C-A961-68135AD966C9",

"client_code": "SVG_TEST",

"reference_id": "770326",

"client_id": 3,

"message_guid": "59A8BDA4-4334-4D3B-B3E0-39B8D3272BCC",

"last_updated_date": "2017-06-27T05:32:52Z"

},

"transaction_attributes": {

"amount": 10.0000,

"country": "USA",

"company": "10132",

"..."

}"

Response

On MAUI Framework

[Overview](#)[Organizations](#)[Mesos Applications](#)[Native Stacks](#)[Stateful Applications](#)[Secrets](#)[Datacenters](#)[Environments](#)[Docker Repositories](#)[Splunk](#)[Help](#)[Support](#)[New Deployment](#)

Configuration

ID:	e911f39b-556f-4088-bc32-cdf59d8ba43c	Created By:	anonymous
Application Group:	com.expedia.globalpayments	Application Artifact:	IRCloudStack
Configuration Group:	com.expedia.globalpayments	Configuration Artifact:	IRCloudStackParams
Read/Write Role:	arn:aws:iam::769348183957:role/awsfnt-defaultteam-irstack		

Deployment History

ID	Application Version	Configuration Version	Started At	State	Error
bf42f65f...	0.1.7	0.1.8	Jul 24, 2017 2:49:02 AM	COMPLETED	
afab8217...	0.1.5	0.1.6	Jul 24, 2017 2:38:14 AM	COMPLETED	
b406a6d7...	0.1.5	0.1.6	Jul 24, 2017 2:26:38 AM	FAILED	'Resource update cancelled'
7f575215...	0.1.3	0.1.4	Jul 23, 2017 11:23:23 PM	COMPLETED	
03ae5718...	0.1.1	0.1.2	Jul 23, 2017 11:18:38 PM	COMPLETED	

Deployment on MAUI framework

❑ Artifact preparation

- ❖ Step 1: Obtain permissions to publish to maven
- ❖ Step 2: Prepare CFT

Sphinx needs two artifacts:

- **Application artifact:** This artifact consists of the mandatory cloudformation template (namely *application.template*) and, optionally, any other asset that user might want to refer to in his/her cloudformation template.

Examples of such assets are lambda code and sql scripts.

- **Configuration artifact:** This artifact consists of the parameter file (namely *parameter.json*) required by the cloudformation template.

❑ Upload artifacts

Upload both the artifacts prepared to the maven repo of your desired account.

❑ Cloud Native app creation

Go to sphinx in your desired account and create your app corresponding to the stack, providing information such as artifact and group id published in previous step.

❑ Deployment

From the app page created above, simply deploy the cloud native application giving versions for both, the application as well as configuration artifact. These versions should have already been published to the corresponding AWS account.

Thank You