

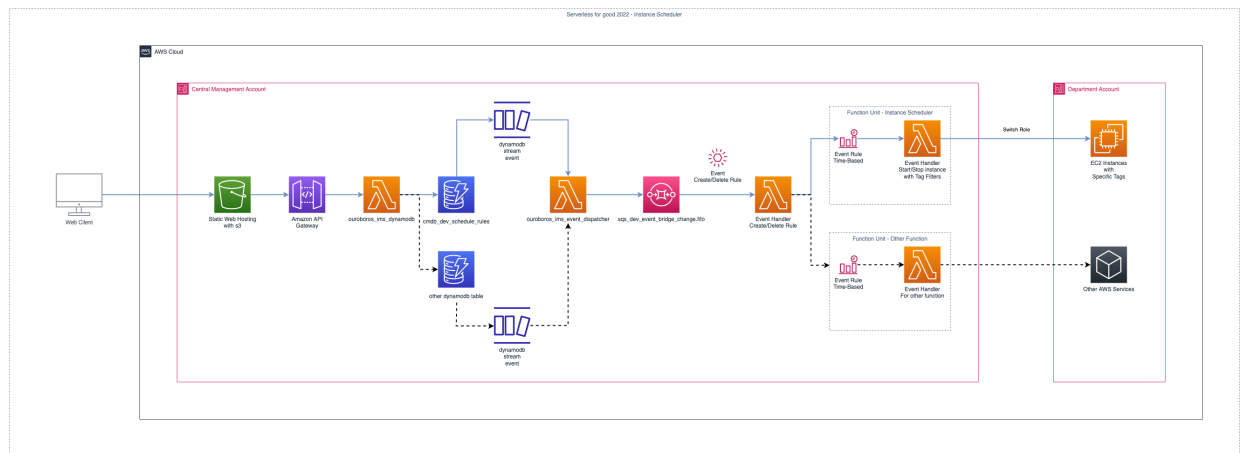
Overview / 项目概述

项目采用无服务器架构实现了Amazon Instance Scheduler题目要求的功能

Online Demo

[Amazon Instance Scheduler](#)

Architecture / 架构图



Components

Frontend

Ouroboros Frontend is built with VUE3 + Nuxt3 + Element-Plus and deployed with AWS S3 Static Web Hosting.

项目前端使用了VUE3 + Nuxt3 + Element-Plus 开发, 使用AWS S3静态网站发布功能进行部署

Backend - Lambda Function

ouroborosimsdynamodb

Handle requests from API gateway, query schedule rules and logs in dynamodb and response

应用后端使用API Gateway + Lambda 开发, 负责处理来自前端的REST API请求, 查询DynamodDB中的数据并返回响应结果, 对于非只读类的接口采用API KEY 进行认证

Database - DynamoDB

`cmdbdevschedule_rules`

Table to store schedule rules.

DynamoDB表, 用于存储自定义计划任务

`cmdbdevschedule_logs`

Table to store event logs.

DynamoDB表, 用于存储EC2操作事件日志

Streaming Service - DynamoDB Stream

`cmdbdevschedule_rules/stream`

Event stream capture both INSERT and REMOVE operations in *cmdbdevschedule_rules* and trigger event handler *ouroborosimsevent_dispatcher*

使用了DynamoDB的Stream功能, 自动捕获数据库中计划任务对象的变化, 触发后端的事件分发函数

Event Dispatcher

`ouroborosimsevent_dispatcher`

Receive streaming events from DynamoDB stream, dispatch event to corresponding queues.

以DynamoDB Stream作为事件源, 将数据库变更事件转化为资源操作事件, 并将事件分发到对应的消息队列中等待处理

Queue Service

`sqsdevec2statechange`

Queue for integration with ec2 handler to avoid messages loss

用于和EC2资源操作函数进行集成, 避免直接调用失败导致的事件丢失

`sqsdeveventbridgechange.fifo`

Queue for integration with event bridge handler to avoid messages loss

用于和Event Bridge资源操作函数进行集成, 避免直接调用失败导致的事件丢失

Event Handlers

ouroborosimsservice_ec2

Handle messages in *sqsdevec2statechange*, describe instances with given filters and start/stop corresponding instances

处理EC2事件变化队列中的事件, 对目标账号中的机器进行开关机操作

ouroborosimsservice_eventbridge

Handle messages in *sqsdeveventbridgechange.fifo*, create event bridge rule according to input params and link to specific event handler

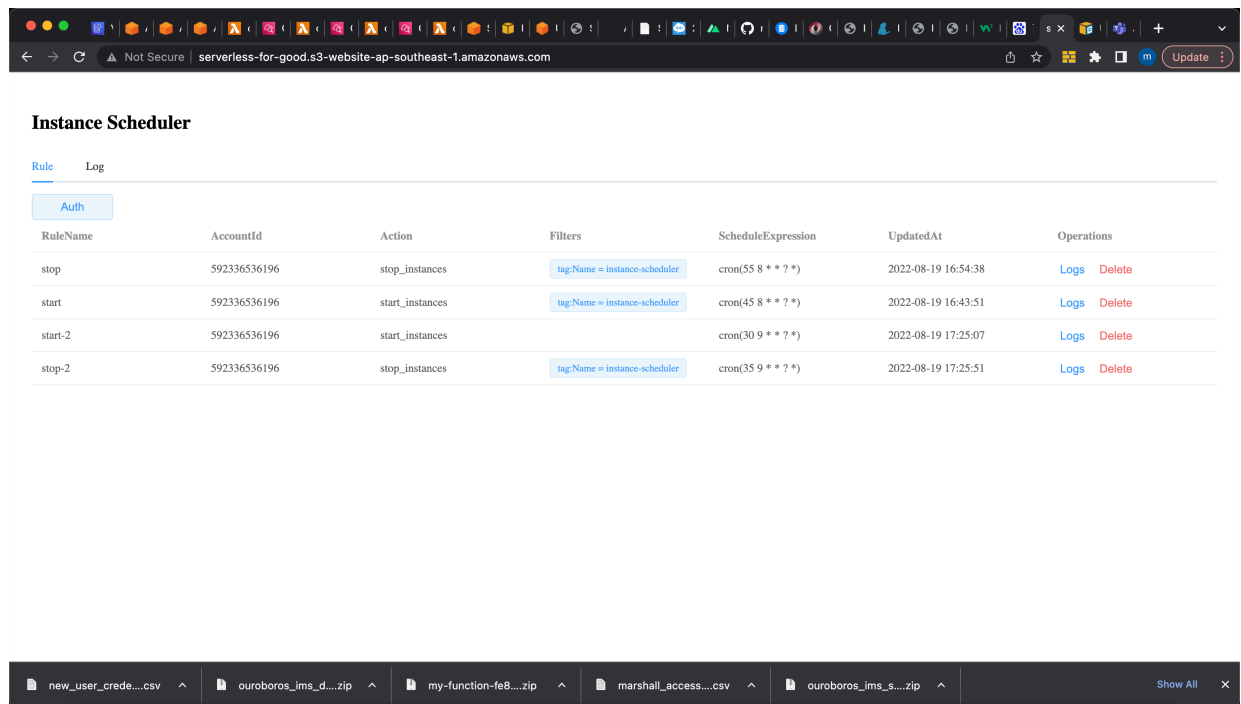
处理Event Bridge事件变化队列中的事件, 创建或删除对应的Event Bridge Time-Based Rule

Features / 功能介绍

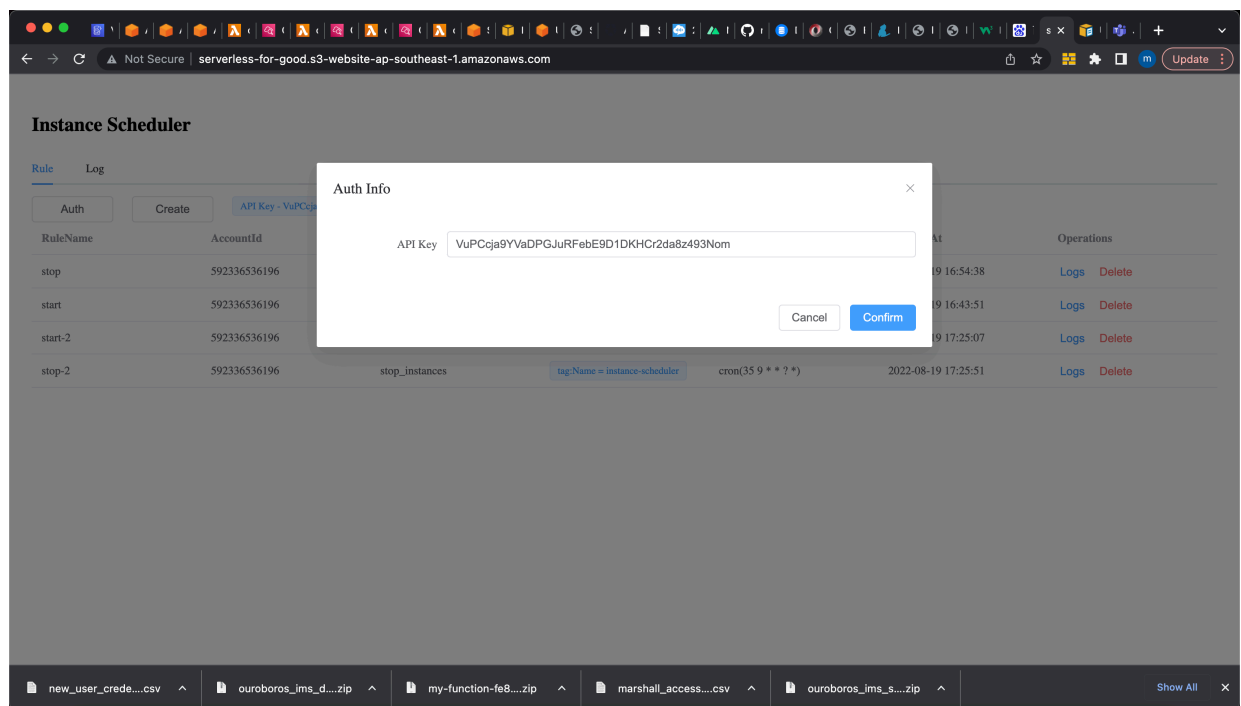
- WebUI to create schedule rule and activity logs - 支持通过UI创建自定义计划和事件日志查询
- Support filter instances with filters: *instance-id*, *tag:key*, *private-ip-address*, *vpc-id* - 支持多种筛选条件, 例如*instance-id*, *tag:key*, *private-ip-address*, *vpc-id*等
- Cross account support (remote configuration is required) - 支持跨账号对资源进行操作, 需要账号中配置好IAM Role及信任关系
- Central managed lambda functions and event bridge rules - 集中化管理的Lambda代码以及事件驱动规则
- Support throttling and quota per API Key - 支持通过API Key进行限流调节和配额管理
- Full stack deployment with AWS SAM - 支持使用SAM进行部署

User Guide / 使用说明

Readonly view for user without API Key



Configure API Key



Admin view after API Key configured

← → ↻ Not Secure serverless-for-good.s3-website-ap-southeast-1.amazonaws.com

Instance Scheduler

Rule Log

Auth Create API Key - VuPCja9YYaDPGJu8FebE9D1DKHC2da8s493N0m

| RuleName | AccountId | Action | Filters | ScheduleExpression | UpdatedAt | Operations |
|----------|--------------|-----------------|-------------------------------|--------------------|---------------------|-------------|
| stop | 592336536196 | stop_instances | tag:Name = instance-scheduler | cron(55 8 * * ? *) | 2022-08-19 16:54:38 | Logs Delete |
| start | 592336536196 | start_instances | tag:Name = instance-scheduler | cron(45 8 * * ? *) | 2022-08-19 16:43:51 | Logs Delete |
| start-2 | 592336536196 | start_instances | | cron(30 9 * * ? *) | 2022-08-19 17:25:07 | Logs Delete |
| stop-2 | 592336536196 | stop_instances | tag:Name = instance-scheduler | cron(35 9 * * ? *) | 2022-08-19 17:25:51 | Logs Delete |

new_user_crede....csv ouroboros_ims_d....zip my-function-fe8....zip marshall_access....csv ouroboros_ims_s....zip Show All

Create Schedule Rule

← → ↻ Not Secure serverless-for-good.s3-website-ap-southeast-1.amazonaws.com

Instance Scheduler

Rule Log

Auth Create API Key - VuPCja9YYaDPGJu8FebE9D1DKHC2da8s493N0m

| RuleName | AccountId | Action | Filters | ScheduleExpression | UpdatedAt | Operations |
|----------|--------------|-----------------|-------------------------------|--------------------|---------------------|-------------|
| stop | 592336536196 | stop_instances | tag:Name = instance-scheduler | cron(55 8 * * ? *) | 2022-08-19 16:54:38 | Logs Delete |
| start | 592336536196 | start_instances | tag:Name = instance-scheduler | cron(45 8 * * ? *) | 2022-08-19 16:43:51 | Logs Delete |
| start-2 | 592336536196 | start_instances | | cron(30 9 * * ? *) | 2022-08-19 17:25:07 | Logs Delete |
| stop-2 | 592336536196 | stop_instances | tag:Name = instance-scheduler | cron(35 9 * * ? *) | 2022-08-19 17:25:51 | Logs Delete |

new_user_crede....csv ouroboros_ims_d....zip my-function-fe8....zip marshall_access....csv ouroboros_ims_s....zip Show All

Auth Info

Rule Name

Account Id

Action please select action

Filters

ScheduleExpression

Cancel Confirm

Sample Input

Rule Name

Unique name to identify specific schedule rule

Account Id

Account Id of the owner of targeted instances

Action

Select action for targeted instances

Filters

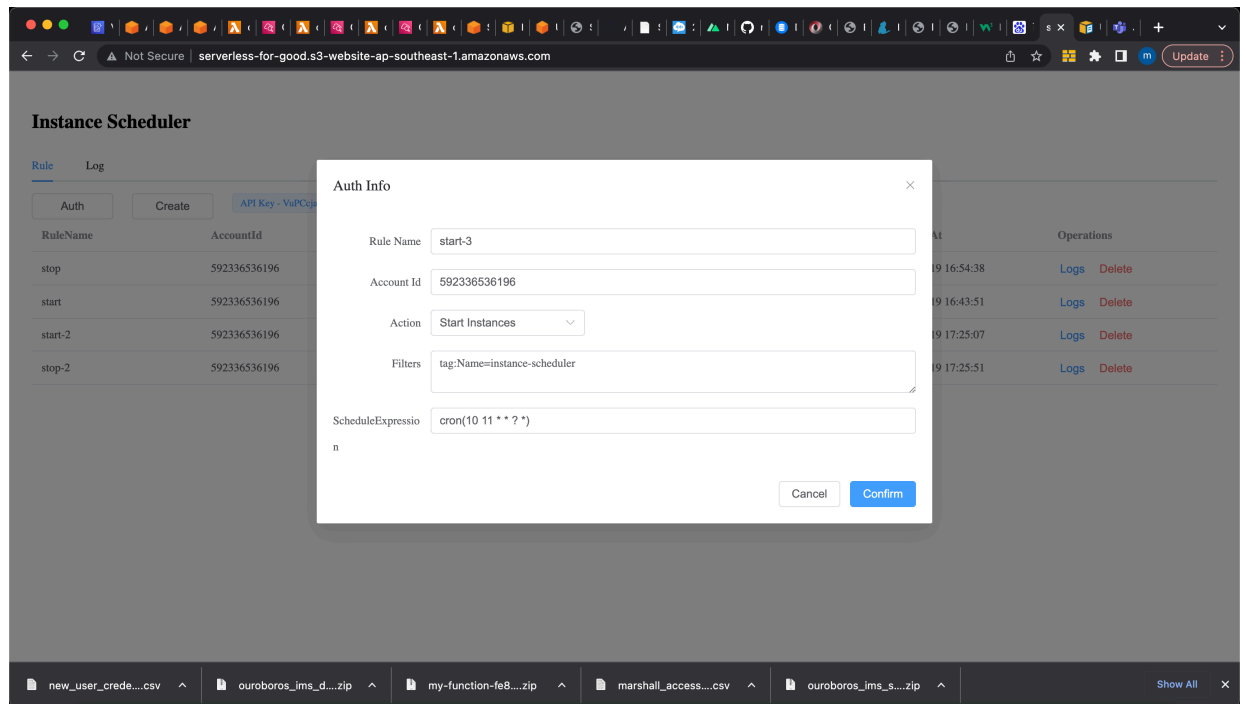
Filter string to filter specific instances

Example: `tag:Name=instance-scheduler,vpc-id=vpc-4085e027`

ScheduleExpression

The cron expression syntax please refer to AWS document for event bridge time-based rule

Example: `cron(55 14 * * ? *) # Everyday at 14:55 UTC`



Created schedule rules will be in the list

Instance Scheduler

Rule

Log

Auth

Create

API Key - VuPCja9YYaDPGJuRFeB9D1DKHC2da8e493N0m

| RuleName | AccountId | Action | Filters | ScheduleExpression | UpdatedAt | Operations |
|----------|--------------|-----------------|-------------------------------|---------------------|---------------------|---|
| stop | 592336536196 | stop_instances | tag:Name = instance-scheduler | cron(55 8 * * ? *) | 2022-08-19 16:54:38 | Logs Delete |
| start | 592336536196 | start_instances | tag:Name = instance-scheduler | cron(45 8 * * ? *) | 2022-08-19 16:43:51 | Logs Delete |
| start-2 | 592336536196 | start_instances | tag:Name = instance-scheduler | cron(30 9 * * ? *) | 2022-08-19 17:25:07 | Logs Delete |
| start-3 | 592336536196 | start_instances | tag:Name = instance-scheduler | cron(10 11 * * ? *) | 2022-08-19 19:04:43 | Logs Delete |
| stop-2 | 592336536196 | stop_instances | tag:Name = instance-scheduler | cron(35 9 * * ? *) | 2022-08-19 17:25:51 | Logs Delete |

new_user_crede...csv

ouroboros_ims_d...zip

my-function-fe8...zip

marshall_access...csv

ouroboros_ims_s...zip

Show All

Activity logs can be found in logs tab

Instance Scheduler

Rule

Log

| EventId | TimeStamp | Action | Filters | Targets |
|--------------------------------------|---------------------|-----------------|-------------------------------|---------------------|
| bf81e176-0876-468f-898d-dafac406b01f | 2022-08-19 17:36:19 | stop_instances | tag:Name = instance-scheduler | i-0fa6e4078c42c8a70 |
| 499c5d40-cca8-4d5d-ac26-a0c6740831d4 | 2022-08-19 16:55:44 | stop_instances | tag:Name = instance-scheduler | i-0fa6e4078c42c8a70 |
| 4846aae1-1970-4c19-81a9-18cfc622ec6c | 2022-08-19 17:31:16 | start_instances | | i-0fa6e4078c42c8a70 |

new_user_crede...csv

ouroboros_ims_d...zip

my-function-fe8...zip

marshall_access...csv

ouroboros_ims_s...zip

Show All

How to Deploy backend serverless with AWS SAM / 如何使用AWS SAM部署后端无服务架构

Ouroboros backend serverless app follows AWS SAM architecture.

Learn more on the original AWS SAM docs

Ouroboros后端无服务架构基于AWS SAM架构实现和部署。关于AWS SAM请参阅AWS SAM文档

Create or Get Dependency Service Resource / 创建或获取依赖资源

DynamoDB Table

Ouroboros uses default table name is `cmdb_dev_schedule_rules`

Ouroboros使用的默认Table名称为 `cmdb_dev_schedule_rules`

获取DynamoDB Streams ARN:

Get DynamoDB Streams ARN:

Example 示例:

```
arn:aws:dynamodb:ap-southeast-1:592336536196:table/cmdbdevschedule_rules/stream/2022-08-17T03:05:06.359
```

SQS

Ouroboros uses two default SQS queue with type:

Ouroboros 使用两个SQS队列，默认名称和类型为:

- `sqsdevec2statechange` - Standard
- `sqsdeveventbridgechange.fifo` - FIFO

获取SQS Queue ARN:

Get SQS Queue ARN:

```
arn:aws:sqs:ap-southeast-1:592336536196:sqsdeveventbridgechange.fifo
```

Configure SAM Template / 配置SAM模板

Replace DynamoDB & SQS arn in `template.yaml`


```
...
Events:
ouroborosDDBEvent:
  Type: DynamoDB
  Properties:
    Stream: !Replace your own DDB Stream ARN here
    StartingPosition: LATEST
    BatchSize: 1
...
```

```
...
Events:
OuroborosFunctionSQSQueue:
  Type: SQS
  Properties:
    Queue: !Replace your own SQS Queue ARN here
...
```

Build / 构建

Ensure you have configured AWS credential/config in your environment.

请确保AWS SAM和cli工具已经正常安装和配置

- Run / 运行

```
sam build
```

- Example / 示例

```
sam build
Building codeuri: /Users/xp/workspace-docker/ouroboros_ims_service_sam/ou
Running PythonPipBuilder:ResolveDependencies
Running PythonPipBuilder:CopySource
Building codeuri: /Users/xp/workspace-docker/ouroboros_ims_service_sam/ou
Running PythonPipBuilder:ResolveDependencies
Running PythonPipBuilder:CopySource
Building codeuri: /Users/xp/workspace-docker/ouroboros_ims_service_sam/ou
Running PythonPipBuilder:ResolveDependencies
Running PythonPipBuilder:CopySource
Building codeuri: /Users/xp/workspace-docker/ouroboros_ims_service_sam/ou
Running PythonPipBuilder:ResolveDependencies
Running PythonPipBuilder:CopySource

Build Succeeded

Built Artifacts  : .aws-sam/build
Built Template   : .aws-sam/build/template.yaml

Commands you can use next
=====
[*] Invoke Function: sam local invoke
[*] Test Function in the Cloud: sam sync --stack-name {stack-name} --wat
[*] Deploy: sam deploy --guided
```

Test / 测试

Skipped and not shown this stage which we have covered internally.

不在本次目标之内，但我们已经在内部实施了单元测试和集成测试。请参阅AWS [README](#)

Deploy / 部署

An initial deployment is suggested use `--guided`

首次部署强烈建议使用 `--guided` 参数

- Run / 运行

```
sam deploy --guided
```

- Example / 实例

```
sam deploy --guided
```

Configuring SAM deploy

=====

Looking for config file [samconfig.toml] : Found

Reading default arguments : Success

Setting default arguments for 'sam deploy'

=====

Stack Name [OuroborosAppSam]:

AWS Region [ap-southeast-1]:

Parameter Environment [dev]:

#Shows you resources changes to be deployed and require a 'Y' to init

Confirm changes before deploy [Y/n]:

#SAM needs permission to be able to create roles to connect to the re

Allow SAM CLI IAM role creation [Y/n]:

#Preserves the state of previously provisioned resources when an open

Disable rollback [Y/n]: N

OuroborosCMDBFunction may not have authorization defined, Is this ok

OuroborosCMDBFunction may not have authorization defined, Is this ok

OuroborosCMDBFunction may not have authorization defined, Is this ok

Save arguments to configuration file [Y/n]:

SAM configuration file [samconfig.toml]:

SAM configuration environment [default]:

Looking for resources needed for deployment:

Managed S3 bucket: aws-sam-cli-managed-default-samclisourcebucket-z

A different default S3 bucket can be set in samconfig.toml

Saved arguments to config file

Running 'sam deploy' for future deployments will use the parameters s

The above parameters can be changed by modifying samconfig.toml

Learn more about samconfig.toml syntax at

<https://docs.aws.amazon.com/serverless-application-model/latest/develop>

File with same data already exists at OuroborosAppSam/79a44a842d582122e4:

File with same data already exists at OuroborosAppSam/8eb91e38b0e10a49a1

File with same data already exists at OuroborosAppSam/fb6c4854a4d380586d

File with same data already exists at OuroborosAppSam/a6e2013103d961be51

Deploying with following values

=====

Stack name : OuroborosAppSam

Region : ap-southeast-1

Confirm changeset : True

Disable rollback : False

Deployment s3 bucket : aws-sam-cli-managed-default-samclisou

Capabilities : ["CAPABILITY_IAM"]

Parameter overrides : {"Environment": "dev"}

Signing Profiles : {}

Initiating deployment

=====

Uploading to OuroborosAppSam/4c188ef728ed8434b3912d982f2ad05d.template

Waiting for changeset to be created..

CloudFormation stack changeset

| Operation | LogicalResourceId |
|-----------|---------------------------------------|
| + Add | OuroborosCMDBFunction rmissionProd |
| + Add | OuroborosCMDBFunction ssionProd |
| + Add | OuroborosCMDBFunction issionProd |
| + Add | OuroborosCMDBFunction |
| + Add | OuroborosCMDBFunction |
| + Add | OuroborosEC2HandlerFu eue |
| + Add | OuroborosEC2HandlerFu |
| + Add | OuroborosEC2HandlerFu |
| + Add | OuroborosEventDispatc |
| + Add | OuroborosEventDispatc |
| + Add | OuroborosEventDispatc |
| + Add | OuroborosEventHandle Queue |
| + Add | OuroborosEventHandle |
| + Add | OuroborosEventHandle |
| + Add | ServerlessRestApiDep |
| + Add | ServerlessRestApiProc |
| + Add | ServerlessRestApi |

Changeset created successfully. arn:aws:cloudformation:ap-southeast-1:592

Previewing CloudFormation changeset before deployment

=====

Deploy this changeset? [y/N]: y

2022-08-19 14:03:58 - Waiting for stack create/update to complete

CloudFormation events from stack operations

| ResourceStatus | ResourceType |
|----------------|--------------|
|----------------|--------------|

| | |
|--------------------|---------------------------------|
| CREATE_IN_PROGRESS | AWS::IAM::Role |
| CREATE_IN_PROGRESS | AWS::IAM::Role |
| CREATE_IN_PROGRESS | AWS::IAM::Role |
| CREATE_IN_PROGRESS | AWS::IAM::Role |
| CREATE_IN_PROGRESS | AWS::IAM::Role |
| CREATE_IN_PROGRESS | AWS::IAM::Role |
| CREATE_IN_PROGRESS | AWS::IAM::Role |
| CREATE_COMPLETE | AWS::IAM::Role |
| CREATE_COMPLETE | AWS::IAM::Role |
| CREATE_COMPLETE | AWS::IAM::Role |
| CREATE_IN_PROGRESS | AWS::Lambda::Function |
| CREATE_IN_PROGRESS | AWS::Lambda::Function |
| CREATE_COMPLETE | AWS::IAM::Role |
| CREATE_IN_PROGRESS | AWS::Lambda::Function |
| CREATE_IN_PROGRESS | AWS::Lambda::Function |
| CREATE_IN_PROGRESS | AWS::Lambda::Function |
| CREATE_IN_PROGRESS | AWS::Lambda::Function |
| CREATE_IN_PROGRESS | AWS::Lambda::Function |
| CREATE_IN_PROGRESS | AWS::Lambda::Function |
| CREATE_COMPLETE | AWS::Lambda::Function |
| CREATE_IN_PROGRESS | AWS::Lambda::EventSourceMapping |
| CREATE_COMPLETE | AWS::Lambda::Function |
| CREATE_COMPLETE | AWS::Lambda::Function |
| CREATE_IN_PROGRESS | AWS::Lambda::EventSourceMapping |
| CREATE_IN_PROGRESS | AWS::Lambda::EventSourceMapping |
| CREATE_IN_PROGRESS | AWS::ApiGateway::RestApi |
| CREATE_COMPLETE | AWS::Lambda::Function |
| CREATE_IN_PROGRESS | AWS::Lambda::EventSourceMapping |
| CREATE_COMPLETE | AWS::ApiGateway::RestApi |
| CREATE_IN_PROGRESS | AWS::Lambda::EventSourceMapping |
| CREATE_IN_PROGRESS | AWS::ApiGateway::RestApi |
| CREATE_IN_PROGRESS | AWS::Lambda::Permission |
| CREATE_IN_PROGRESS | AWS::Lambda::Permission |
| CREATE_IN_PROGRESS | AWS::Lambda::Permission |
| CREATE_IN_PROGRESS | AWS::Lambda::Permission |
| CREATE_IN_PROGRESS | AWS::ApiGateway::Deployment |
| CREATE_IN_PROGRESS | AWS::Lambda::EventSourceMapping |
| CREATE_COMPLETE | AWS::Lambda::EventSourceMapping |
| CREATE_IN_PROGRESS | AWS::Lambda::Permission |
| CREATE IN PROGRESS | AWS::Lambda::Permission |

```

CREATE_IN_PROGRESS      AWS::Lambda::Permissi
CREATE_IN_PROGRESS      AWS::ApiGateway::Dep
CREATE_COMPLETE          AWS::ApiGateway::Dep
CREATE_IN_PROGRESS      AWS::ApiGateway::Sta
CREATE_COMPLETE          AWS::ApiGateway::Sta
CREATE_IN_PROGRESS      AWS::ApiGateway::Sta
CREATE_COMPLETE          AWS::Lambda::Permissi
CREATE_COMPLETE          AWS::Lambda::Permissi
CREATE_COMPLETE          AWS::Lambda::EventSou
CREATE_COMPLETE          AWS::Lambda::EventSou
CREATE_COMPLETE          AWS::CloudFormation:
-----

```

CloudFormation outputs from deployed stack

Outputs

```

Key      OuroborosFunctionApi
Description  API Gateway endpoint URL for Prod stage for Hello Wo
Value     https://3c2fkrtahl.execute-api.ap-southeast-1.amazona

Key      OuroborosCMDBFunctionIamRole
Description  Implicit IAM Role created for Hello World function
Value     arn:aws:iam::592336536196:role/OuroborosAppSam-Ourobor

Key      OuroborosCMDBFunctionFunction
Description  Hello World Lambda Function ARN
Value     arn:aws:lambda:ap-southeast-1:592336536196:function:O
-----

```

Successfully created/updated stack - OuroborosAppSam in ap-southeast-1

AWS Console

- Lambda Application

AWS Lambda X

Dashboard
Applications
Functions

▼ Additional resources
Code signing configurations
Layers
Replicas

▼ Related AWS resources
Step Functions state machines

Lambda > Applications > OuroborosAppSam

OuroborosAppSam

Overview | Deployments | Monitoring

API endpoint

Endpoint
<https://3c2fkrtahl.execute-api-southeast-1.amazonaws.com/Prod>

Resources (17)

Q

| Logical ID | Physical ID | Type | Last modified |
|----------------------------------|--|--------------------|----------------|
| OuroborosCMDBFunction | OuroborosAppSam-OuroborosCMDBFunction-D4GdsIDwnifq | Lambda Function | 1 hour ago |
| OuroborosEC2HandlerFunction | OuroborosAppSam-OuroborosEC2HandlerFunction-peMNO39tozvy | Lambda Function | 1 hour ago |
| OuroborosEventDispatcherFunction | OuroborosAppSam-OuroborosEventDispatcherFunction-j6Pt9AJCA2H | Lambda Function | 1 hour ago |
| OuroborosEventHandlerFunction | OuroborosAppSam-OuroborosEventHandlerFunction-8XAMkgRZUgOd | Lambda Function | 1 hour ago |
| ServerlessRestApi | 3c2fkrtahl | ApiGateway RestApi | 23 minutes ago |

- Lambdas

AWS Services Search for services, features, blogs, docs, and more [Option+S] Singapore XP @ 5923-3653

Lambda > Functions > OuroborosAppSam-OuroborosCMDBFunction-D4GdsIDwnifq

OuroborosAppSam-OuroborosCMDBFunction-D4GdsIDwnifq

Throttle Copy ARN Actions

This function belongs to an application. [Click here](#) to manage it.

▼ Function overview Info

OuroborosAppSam-OuroborosCMDBFunction-D4GdsIDwnifq

Layers (0)

API Gateway (3)

+ Add trigger

Related functions: Select a function

Description -

Last modified 1 hour ago

Function ARN [arn:aws:lambda:ap-southeast-1:592336536196:function:OuroborosAppSam-OuroborosCMDBFunction-D4GdsIDwnifq](#)

Application [OuroborosAppSam](#)

Function URL [info](#)

Code Test Monitor **Configuration** Aliases Versions

General configuration

Triggers

Permissions

Destinations

Function URL

Environment variables

Tags

VPC

Monitoring and operations tools

Concurrency

Asynchronous invocation

Code signing

Database proxies

File systems

State machines

Triggers (3)

Find triggers

Trigger

API Gateway: [OuroborosAppSam](#)
arn:aws:execute-api:ap-southeast-1:592336536196:3c2fkrtahl/*/POST/resources/schedule/rules
API endpoint: <https://3c2fkrtahl.execute-api-southeast-1.amazonaws.com/Prod/resources/schedule/rules>
Details

API Gateway: [OuroborosAppSam](#)
arn:aws:execute-api:ap-southeast-1:592336536196:3c2fkrtahl/*/GET/resources/schedule/rules
API endpoint: <https://3c2fkrtahl.execute-api-southeast-1.amazonaws.com/Prod/resources/schedule/rules>
Details

API Gateway: [OuroborosAppSam](#)
arn:aws:execute-api:ap-southeast-1:592336536196:3c2fkrtahl/*/DELETE/resources/schedule/rules/*
API endpoint: <https://3c2fkrtahl.execute-api-southeast-1.amazonaws.com/Prod/resources/schedule/rules/rule-id>
Details

Fix errors Edit Delete Add trigger

< 1 >

- CloudFormation

CloudFormation > Stacks > OuroborosAppSam

OuroborosAppSam [Delete] [Update] [Stack actions] [Create stack]

Stack info | Events | Resources | **Outputs** | Parameters | Template | Change sets

Outputs (3) [Refresh] [Search outputs]

| Key | Value | Description | Export name |
|-----------------------------|---|--|-------------|
| OuroborosCMDFunction | arn:aws:lambda:ap-southeast-1:592336536196:function:OuroborosAppSam-OuroborosCMDFunction-D4GdsIDwnlfq | Hello World Lambda Function ARN | - |
| OuroborosCMDFunctioniamRole | arn:aws:iam::592336536196:role/OuroborosAppSam-OuroborosCMDFunctionRole-DON3Y6XAX3P | Implicit IAM Role created for Hello World function | - |
| OuroborosFunctionApi | https://3c2fkrtahl.execute-api.ap-southeast-1.amazonaws.com/Prod/resources/schedule/rules | API Gateway endpoint URL for Prod stage for Hello World function | - |

• API Gateway

Amazon API Gateway > APIs > OuroborosAppSam (3c2fkrtahl) > Resources > /resources/schedule/rules (8zsqb5) > POST

APIs | Custom Domain Names | VPC Links | **API: OuroborosAppSam** | Resources | Stages | Authorizers | Gateway Responses | Models | Resource Policy | Documentation | Dashboard | Settings

/resources/schedule/rules - POST - Method Execution

Client → **Method Request** → **Integration Request** → Lambda: OuroborosAppSam-OuroborosCMDFunction...

Method Request
Auth: NONE
ARN: arn:aws:execute-api:ap-southeast-1:592336536196:3c2fkrtahl/POST/resources/schedule/rules

Integration Request
Type: LAMBDA_PROXY

Method Response
Select an integration response.

Integration Response
Proxy integrations cannot be configured to transform responses.

• DynamoDB

DynamoDB stream details

Capture item-level changes in your table, and push the changes to a DynamoDB stream. You then can access the change information through the DynamoDB Streams API.

[Disable]

| | | |
|---------------------------------|---------------------------------|--|
| Stream status Enabled | View type New and old images | Latest stream ARN arn:aws:dynamodb:ap-southeast-1:592336536196:table/cmdb_dev_schedule_rules/stream/2022-08-17T03:05:06.359 |
|---------------------------------|---------------------------------|--|

▼ **Triggers (2)**

Use triggers to invoke an AWS Lambda function every time an item is changed, and then your DynamoDB stream is updated.

Trigger (2) [Refresh] [Configure] [Delete] [Create trigger]





| Function | State | Last processing result |
|--|---------|-------------------------------|
| OuroborosAppSam-OuroborosEventDispatcherFunction-j6Pt9AJCA2H | Enabled | PROBLEM: Function call failed |

• SQS

sqs_dev_event_bridge_change.fifo

Edit Delete Purge Send and receive messages Start DLQ redrive

Details info

| | | |
|--|--|---|
| Name | Type | ARN |
|  sqs_dev_event_bridge_change.fifo | FIFO |  am:aws:sqs:ap-southeast-1:592336536196:sqs_dev_event_bridge_change.fifo |
| Encryption | URL | Dead-letter queue |
| Disabled |  https://sqs.ap-southeast-1.amazonaws.com/592336536196/sqs_dev_event_bridge_change.fifo | - |
|  More | | |