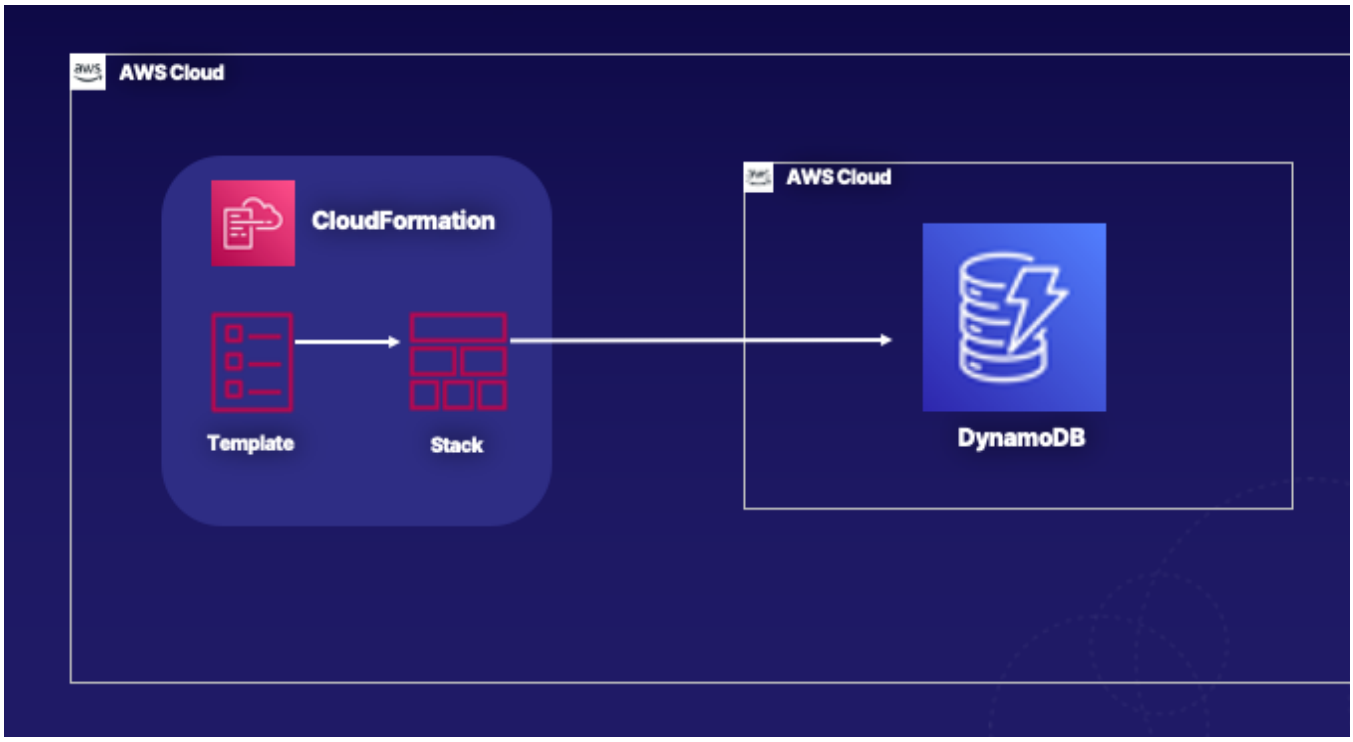

DynamoDB Table With CloudFormation

01.11.2022

—

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AppleSeeds
AWS re/Start BootCamp

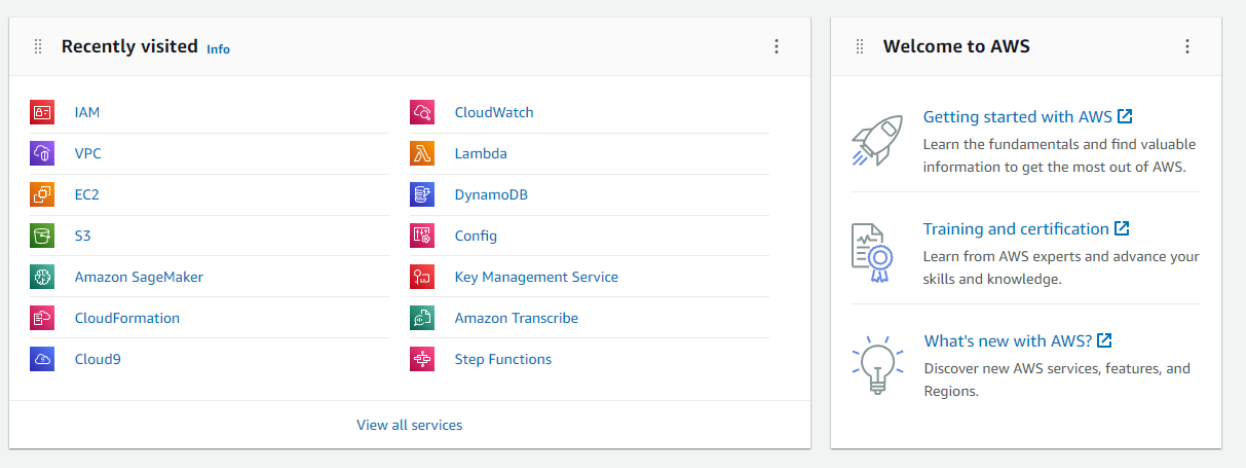
Overview

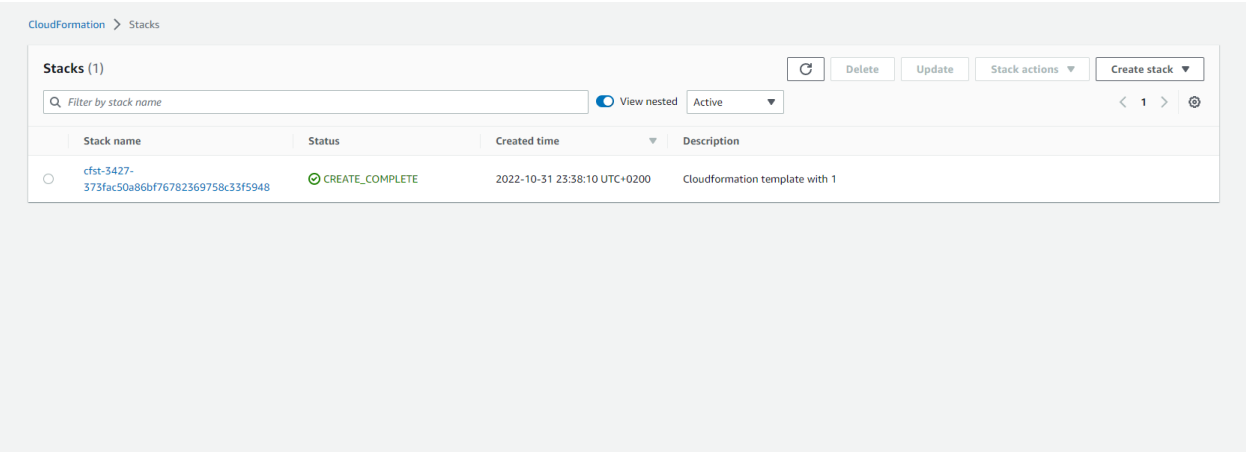
Creating a DynamoDB Table Using AWS CloudFormation.

I will be using AWS CloudFormation to write the state of the infrastructure using code, which includes a DynamoDB table to hold inventory items.

Goals

1. Review and Download the CloudFormation Template.
2. Launch the CloudFormation Stack.
3. Verify the DynamoDB Table Was Created.





35 lines (31 sloc) | 859 Bytes Raw Blame

```yaml
AWSTemplateFormatVersion: 2010-09-09
Description: CloudFormation Template To Create Alfredo's Inventory DynamoDB Table

Resources:
  InventoryTable:
    Type: AWS::DynamoDB::Table
    Properties:
      TableName: Inventory
      AttributeDefinitions:
        -
          AttributeName: !Ref HashKeyElementName
          AttributeType: !Ref HashKeyElementType
      KeySchema:
        -
          AttributeName: !Ref HashKeyElementName
          KeyType: HASH

      ProvisionedThroughput:
        ReadCapacityUnits: 5
        WriteCapacityUnits: 5

Parameters:
  HashKeyElementName:
    Type: String
    Default: InventoryId
    Description: Hash Key Name
  HashKeyElementType:
    Type: String
    Default: S
    Description: Hash Key Type

Outputs:
  Inventory:
    Description: Alfredo's Inventory Table
    Value: !Ref InventoryTable
```

Give feedback

Create stack

Prerequisite - Prepare template

Prepare template

Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

- (•) Template is ready
- ( ) Use a sample template
- ( ) Create template in Designer

Specify template

A template is a JSON or YAML file that describes your stack's resources and properties.

Template source

Selecting a template generates an Amazon S3 URL where it will be stored.

- ( ) Amazon S3 URL
- (•) Upload a template file

Upload a template file

Choose file *acg-dynamodb-template.yaml.txt*

JSON or YAML formatted file

S3 URL: https://s3.us-east-1.amazonaws.com/cf-templates-jw764bwgwgij-us-east-1/2022-10-31T214906.985Zak3-acg-dynamodb-template.yaml.txt View in Designer

Cancel Next

Specify stack details

Stack name

Stack name

dynamodb-stack

Stack name can include letters (A-Z and a-z), numbers (0-9), and dashes (-).

Parameters

Parameters are defined in your template and allow you to input custom values when you create or update a stack.

HashKeyElementName

Hash Key Name

InventoryId

HashKeyElementType

Hash Key Type

S

Cancel Previous Next

Review dynamodb-stack

Step 1: Specify template Edit

Template

Template URL

https://s3.us-east-1.amazonaws.com/cf-templates-jw764bwgwgij-us-east-1/2022-10-31T214906.985Zak3-acg-dynamodb-template.yaml.txt

Stack description

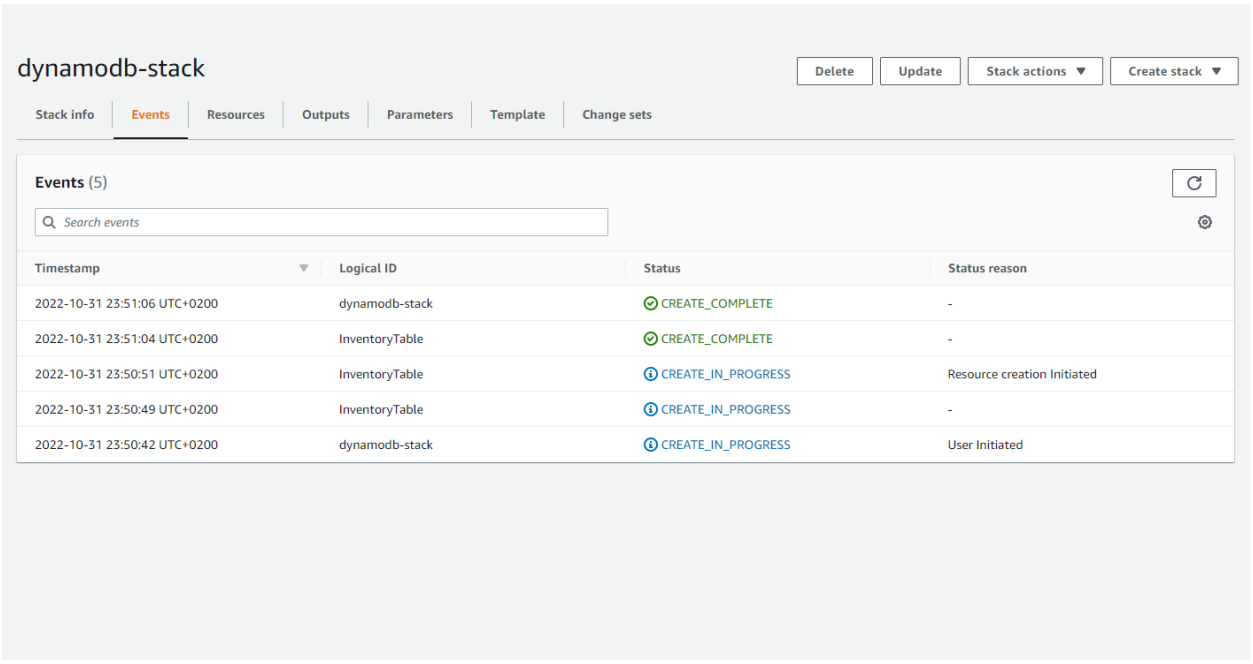
CloudFormation Template To Create Alfredo's Inventory DynamoDB Table

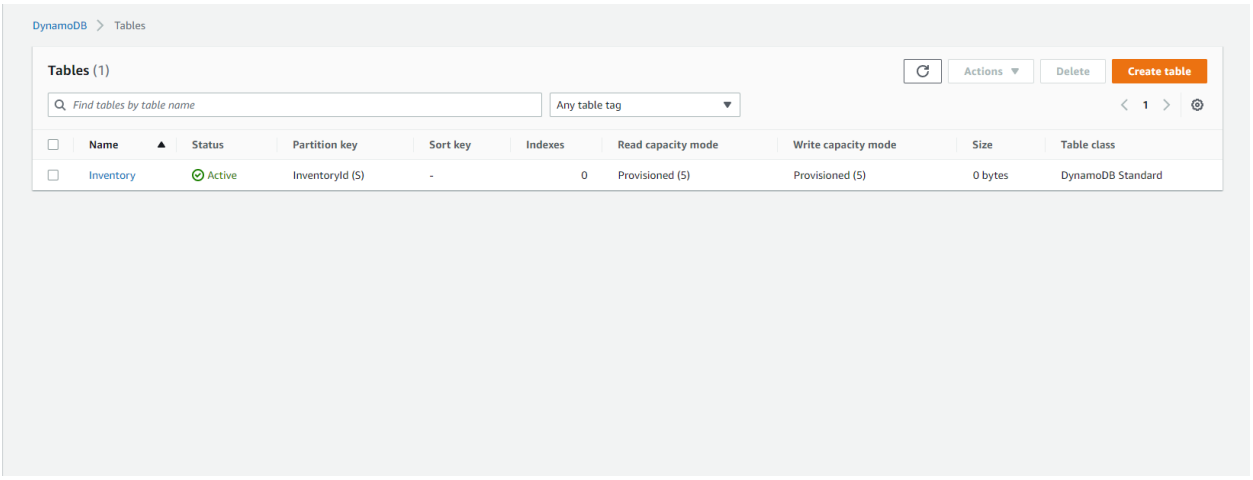
Step 2: Specify stack details Edit

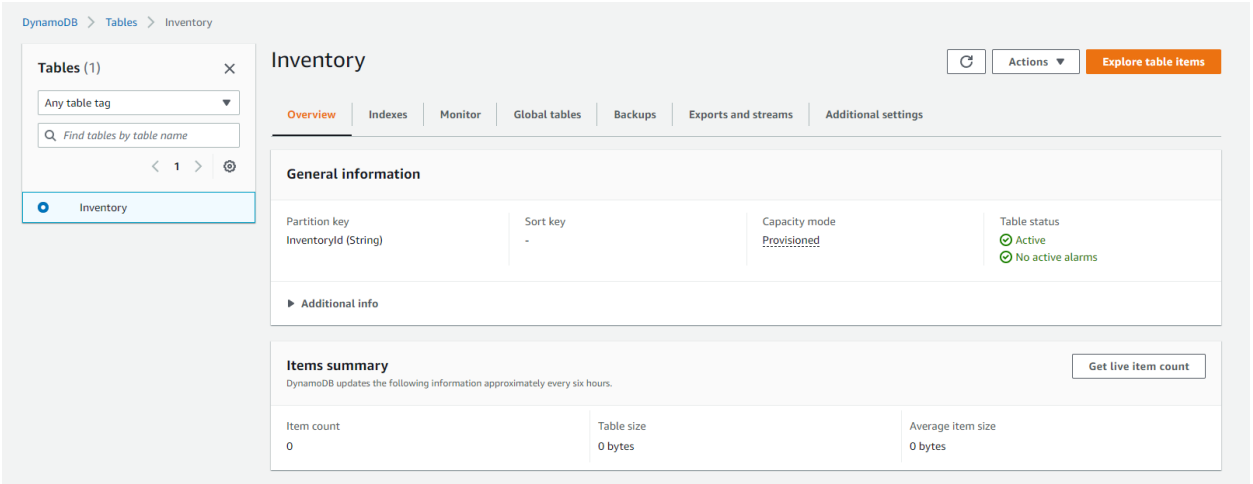
Parameters

Search parameters

Key	Value
HashKeyElementType	S
HashKeyElementName	InventoryId


dynamodb-stack
Delete
Update
Stack actions
Create stack
Stack info
Events
Resources
Outputs
Parameters
Template
Change sets
Events (5)
Search events
Timestamp
Logical ID
Status
Status reason
2022-10-31 23:51:06 UTC+0200
dynamodb-stack
CREATE_COMPLETE
-
2022-10-31 23:51:04 UTC+0200
InventoryTable
CREATE_COMPLETE
-
2022-10-31 23:50:51 UTC+0200
InventoryTable
CREATE_IN_PROGRESS
Resource creation Initiated
2022-10-31 23:50:49 UTC+0200
InventoryTable
CREATE_IN_PROGRESS
-
2022-10-31 23:50:42 UTC+0200
dynamodb-stack
CREATE_IN_PROGRESS
User Initiated


DynamoDB
Tables
Tables (1)
Actions
Delete
Create table
Find tables by table name
Any table tag
Name
Status
Partition key
Sort key
Indexes
Read capacity mode
Write capacity mode
Size
Table class
Inventory
Active
InventoryId (S)
-
0
Provisioned (5)
Provisioned (5)
0 bytes
DynamoDB Standard


DynamoDB
Tables
Inventory
Tables (1)
Any table tag
Find tables by table name
Inventory
Actions
Explore table items
Overview
Indexes
Monitor
Global tables
Backups
Exports and streams
Additional settings
General information
Partition key
InventoryId (String)
Sort key
-
Capacity mode
Provisioned
Table status
Active
No active alarms
Additional info
Items summary
DynamoDB updates the following information approximately every six hours.
Get live item count
Item count
0
Table size
0 bytes
Average item size
0 bytes