

1. Overview

- No screenshots or observations

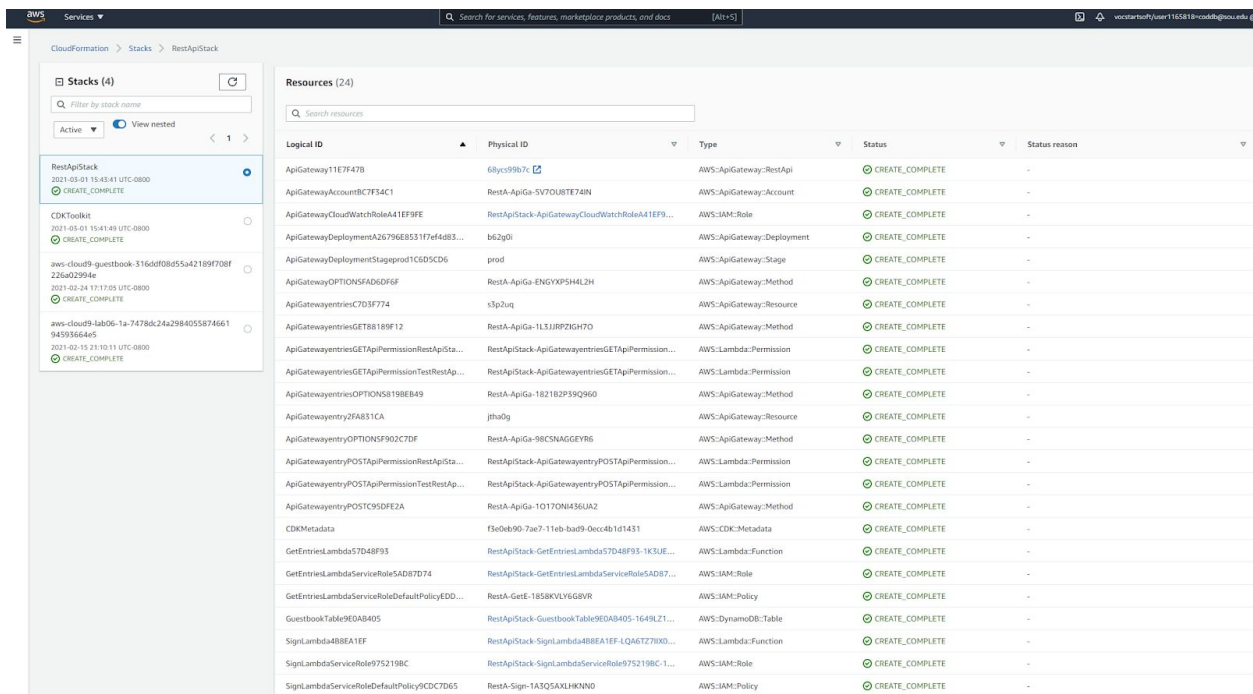
2. CDK code to deploy backend

- No screenshots or observations

3. Deploy the API

```
(env) vocstartsoft:~/environment/cs356-cloud-files/06_aws_restapi_lambda_cdk (master) $ aws sts get-caller-identity
{
  "UserId": "AROQATMPOYIAHZZI3EBIEE:user1165818=coddbsou.edu",
  "Account": "254440652814",
  "Arn": "arn:aws:sts::254440652814:assumed-role/vocstartsoft/user1165818=coddbsou.edu"
}
(env) vocstartsoft:~/environment/cs356-cloud-files/06_aws_restapi_lambda_cdk (master) $ export aws_account_id=$(aws sts get-caller-identity | jq '.Account' | tonumber)
(env) vocstartsoft:~/environment/cs356-cloud-files/06_aws_restapi_lambda_cdk (master) $ echo $aws_account_id
254440652814
(env) vocstartsoft:~/environment/cs356-cloud-files/06_aws_restapi_lambda_cdk (master) $
```

- Find the RestApiStack and take a screenshot of the resources that were deployed. This may take a couple of screenshots. Take as many as needed.



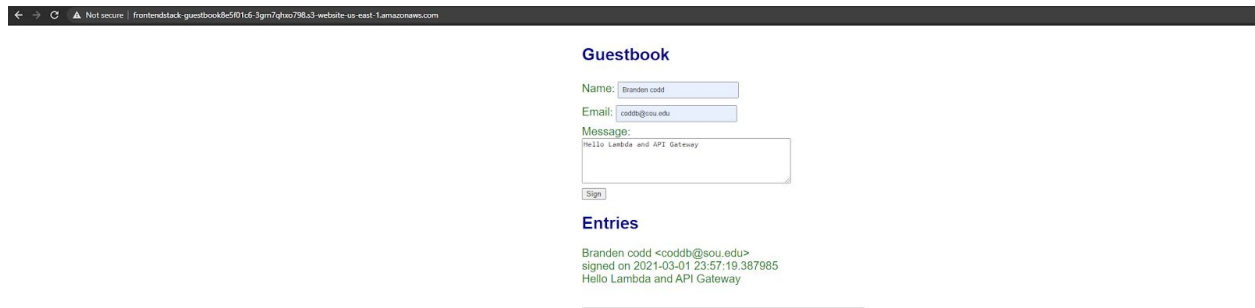
The screenshot shows the AWS CloudFormation console for the 'RestApiStack' in the 'us-east-1' region. The stack is in the 'CREATE_COMPLETE' state. The left sidebar shows a list of stacks, including 'RestApiStack', 'CDKToolkit', and 'aws-cloud9-guestbook'. The main area displays a table of 24 resources, all of which are in the 'CREATE_COMPLETE' state. The resources include various AWS services such as API Gateway, IAM, Lambda, and DynamoDB.

Logical ID	Physical ID	Type	Status	Status reason
ApiGateway11E7F47B	68yc99b7c	AWS::ApiGateway::RestApi	CREATE_COMPLETE	-
ApiGatewayAccountBCTF34C1	RestA-ApiGa-5V70U8TE74IN	AWS::ApiGateway::Account	CREATE_COMPLETE	-
ApiGatewayCloudWatchRoleA41EF9FE	RestA-ApiGa-5V70U8TE74IN	AWS::IAM::Role	CREATE_COMPLETE	-
ApiGatewayDeploymentA26796E853176f4d83...	b42g0l	AWS::ApiGateway::Deployment	CREATE_COMPLETE	-
ApiGatewayDeploymentStageprod1C6D5CD6	prod	AWS::ApiGateway::Stage	CREATE_COMPLETE	-
ApiGatewayOPTIONSFAD6DF6F	RestA-ApiGa-ENGXPSH4L2H	AWS::ApiGateway::Method	CREATE_COMPLETE	-
ApiGatewayentryC7D3F774	s3p2uq	AWS::ApiGateway::Resource	CREATE_COMPLETE	-
ApiGatewayentryGET88189F12	RestA-ApiGa-1L3JRP2G7H7D	AWS::ApiGateway::Method	CREATE_COMPLETE	-
ApiGatewayentryGETApiPermissionTestApiSta...	RestA-ApiGa-1L3JRP2G7H7D	AWS::Lambda::Permission	CREATE_COMPLETE	-
ApiGatewayentryGETApiPermissionTestApiSta...	RestA-ApiGa-1L3JRP2G7H7D	AWS::Lambda::Permission	CREATE_COMPLETE	-
ApiGatewayentryOPTION58198EB49	RestA-ApiGa-1821B2P39Q960	AWS::ApiGateway::Method	CREATE_COMPLETE	-
ApiGatewayentry7FA831CA	jtho0g	AWS::ApiGateway::Resource	CREATE_COMPLETE	-
ApiGatewayentryOPTIONSP302C7DF	RestA-ApiGa-98CSNAGGEYR6	AWS::ApiGateway::Method	CREATE_COMPLETE	-
ApiGatewayentryPOSTApiPermissionTestApiSta...	RestA-ApiGa-1821B2P39Q960	AWS::Lambda::Permission	CREATE_COMPLETE	-
ApiGatewayentryPOSTApiPermissionTestApiSta...	RestA-ApiGa-1821B2P39Q960	AWS::Lambda::Permission	CREATE_COMPLETE	-
ApiGatewayentryPOSTC95DFE2A	RestA-ApiGa-1017ON436UA2	AWS::ApiGateway::Method	CREATE_COMPLETE	-
CDKMetadata	f3e0eb90-7ae7-11eb-bad9-0ccc4b1d1431	AWS::CDK::Metadata	CREATE_COMPLETE	-
GetEntryLambda57D48F93	RestA-ApiGa-GetEntryLambda57D48F93-1K3UE...	AWS::Lambda::Function	CREATE_COMPLETE	-
GetEntryLambdaServiceRole5AD87D74	RestA-ApiGa-GetEntryLambda57D48F93-1K3UE...	AWS::IAM::Role	CREATE_COMPLETE	-
GetEntryLambdaServiceRoleDefaultPolicyEDD...	RestA-ApiGa-GetEntryLambda57D48F93-1K3UE...	AWS::IAM::Policy	CREATE_COMPLETE	-
GuestbookTable9E0AB405	RestA-ApiGa-GuestbookTable9E0AB405-1649L21...	AWS::DynamoDB::Table	CREATE_COMPLETE	-
SignLambda48BEA1EF	RestA-ApiGa-SignLambda48BEA1EF-LQAGT27X0X...	AWS::Lambda::Function	CREATE_COMPLETE	-
SignLambdaServiceRole975219BC	RestA-ApiGa-SignLambda48BEA1EF-LQAGT27X0X...	AWS::IAM::Role	CREATE_COMPLETE	-
SignLambdaServiceRoleDefaultPolicyCDCTD65	RestA-ApiGa-SignLambda48BEA1EF-LQAGT27X0X...	AWS::IAM::Policy	CREATE_COMPLETE	-

Endpoint: <https://68yc99b7c.execute-api.us-east-1.amazonaws.com/prod/>

4. Frontend Code

- Take a screenshot as before that shows your entry and the static website hosting URL.



The screenshot shows a web browser window with the address bar displaying "Frontendstack-guestbook8e501c6-3grn7gho798a3-website-us-east-1.amazonaws.com". The page content includes a "Guestbook" section with input fields for "Name" (filled with "Brandon codd"), "Email" (filled with "codd@sou.edu"), and a "Message" text area (filled with "Hello Lambda and API Gateway"). A "Sign" button is located below the message field. Below the form is an "Entries" section showing a single entry: "Brandon codd <codd@sou.edu> signed on 2021-03-01 23:57:19.387985 Hello Lambda and API Gateway".

Guestbook

Name:

Email:

Message:

Entries

Brandon codd <codd@sou.edu>
signed on 2021-03-01 23:57:19.387985
Hello Lambda and API Gateway