Exercise Serverless Architecturewalkthrough



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- 1. Deploy existing application
- 2. Inspect the architecture in console
- 3. Test manually
- 4. Update: Log bucket name also
- 5. Test manually
- 6. Destroy infrastructure



Architecture

- S3 bucket event
 - EventType_OBJECT_CREATED is
 - added as an event trigger
- Grants are used to give the function access to S3 and DynamoDB



1 - Deploy Infrastructure

- 1. Change directory to ~/go-on-aws-source/architectures/serverless/
- 2. Inspect available tasks

task -l

3. Build app before deployment

task app:build

4. Deploy infrastructure

task infra:deploy

2 - Inspect the architecture

5. Check deployment status

cdkstat

6. Check resources

cdkstat dsl

- 7. Explore the architecture in the AWS console
- Bucket, note the name starting with dsl-incoming
- Lambda, why are there three new functions?
- DynamoDB

3 - Test manually

8. See DynamoDB table

There should be no items in the table

- 9. Upload a file to the bucket
- 10. See DynamoDB table

There should be one item in the table

4 - Update: Log bucket name also

- 11. Create a function ExtractBucket in eventutils.go
- 12. Use it in main.go create a variabes s3BucketName
- 13. Change dsl.PutItem with a new parameter s3BucketName
- 14. Update func PutItem in table.go
- add new parameter "s3BucketName"
- write parameter to DynamoDB

5 - Test manually

15. Deploy application

task app:fastdeploy

16. Empty DynamoDB table

There should be no items in the table

- 9. Upload a file to the bucket
- 10. See DynamoDB table

There should be one item with bucketname in the table

6 - Destroy infrastructure

You have to empty the bucket before destroying the infrastructure

- 11. Delete all files from the incoming bucket
- 12. Destroy infrastructure

task infra:destroy

Quiz

Now you have destroyed the infrastructure, which resources are still available?

WrapUp

- With fastdeploy you enable fast development cycles
- Manual testing is easy,
 but takes time

=> ...What's missing is the automated testing

