



AWS USER GROUP BELGIUM

KICK-OFF MEETUP #1

BY NILS DE MOOR
@NDEMOOR



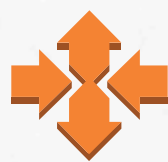
YOU REVISION YOUR CODE IN REPOSITORIES...

...SO WHY NOT YOUR INFRASTRUCTURE



CLOUDFORMATION

ONE FILE TO RULE THEM ALL



CLOUDFORMATION

“MAKE IT EASIER TO DEPLOY THE
COLLECTION OF AWS RESOURCES YOU NEED TO RUN
YOUR APPLICATION REPEATEDLY AND PREDICATBLY
USING A DECLARATIVE TEMPLATE”

- CHRIS WHITACKER, AWS

BENEFITS

- WRITE ONCE, DEPLOY EVERYWHERE
- UPDATE
- DOCUMENTED
- CONTINUOUS



DEMO APP

- CREATE A BUCKET
- ADD PHOTOS TO BUCKET
- START INSTANCE
- PROVISION INSTANCE AND DEPLOY APP

SOURCE: GIT CLONE [HTTPS://GITHUB.COM/NDEMOOR/AWS-UGB-PHOTOAPP](https://github.com/ndemoor/aws-ugb-photoapp)



PHASE 1

CREATE PRIVATE S3 BUCKET

ADD POLICY: PHOTOS / FOLDER PUBLIC

```
git checkout phase1
```

PHASE 2

ADD USER WITH PASSWORD

GENERATE ACCESS KEYS TO USE IN APP

```
git checkout phase2
```


PHASE 3

ADD INSTANCE

ADD SECURITY GROUP

```
git checkout phase3
```

PHASE 4

PROVISION NEW INSTANCE WITH CFN-INIT
ADD WAIT CONDITION
INSTALL + RUN APPLICATION

```
git checkout phase4
```

ADVANCED

- DELETE / UPDATE POLICIES
- SUBSTACKS
- CUSTOM RESOURCES



PITFALLS

- NO SANDBOX TO 'TRY' CHANGES
- BASIC ERROR CHECKING
- NOT EVERYTHING CAN BE 'UPDATED'
- LEARNING CURVE
- BULKY JSON
- SINGLE REGION



HOMEWORK

- ELASTIC IP
- ROUTE53 DNS RECORD POINTING TO INSTANCE
- CLOUDFRONT DISTRIBUTION FOR BUCKET CONTENT
- AUTO-SCALING GROUP + ELB
- PROVISION INSTANCE WITH CHEF/PUPPET/ANSIBLE



RESOURCES

- AWS CLOUDFORMATION DOCS:

[HTTP://DOCS.AWS.AMAZON.COM/AWSCLOUDFORMATION/LATEST/USERGUIDE/WELCOME.HTML](http://docs.aws.amazon.com/awscloudformation/latest/userguide/welcome.html)

- SAMPLE TEMPLATES:

[HTTP://AWS.AMAZON.COM/CLOUDFORMATION/AWS-CLOUDFORMATION-TEMPLATES/](http://aws.amazon.com/cloudformation/aws-cloudformation-templates/)

QUESTIONS?



LEAVE FEEDBACK IN THE USER GROUP PAGE

@NDEMOOR