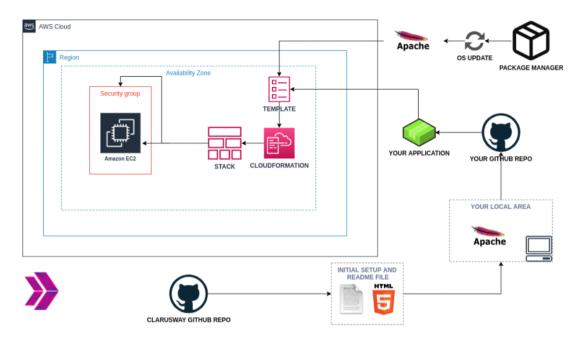
## Project-101-kittens-carousel-static-website-ec2

Monday, 5 July 2021 17.3



- Amacimiz bize verilen jpg ve
- Clarusway reposundaki proje klasorune kendi localimize atiyoruz
- Vs codda locale attigimiz projeyi acalim
- Proje dosyasi icerinde kittens-carousel-static-website.yaml dosyasi olusturalim
- https://docs.aws.amazon.com/AWSCloudFormation/latest/User
   Guide/template-anatomy.html ==> template hakkinda bilgi
- Vs coda 'cfn' yazip enter a basiyoruz ve yaml dosyasinin componentlerini bize verir.

```
AWSTemplateFormatVersion: 2010-09-09
Description: |
This CloudFormation Template was written
Kittens Carousel Static Website will be custom security group which allows http:
Kittens Carousel Static Website is downle
Parameters:

Metadata:
Mappings:
Conditions:
Resources:
Transform:
Outputs:
```

## Description kismina

This CloudFormation Template was written for running Kittens Carousel Static Website on EC2. Kittens Carousel Static Website will be deployed on Amazon Linux 2 (ami-026dea5602e368e96) EC2 Instance with custom security group which allows http connections on port 80 and ssh port 22 from anywhere. Kittens Carousel Static Website is downloaded from my Public Github repository, then deployed on Apache Web Server.' yaziyoruz

- Description: |
- Description: >

- Yukaridaki gibi | veya > isaretleri olabilir
- Parameters, metadata, mappings conditions, transform kisimlarini bu gunku calismada kullanmayacagimiz icin silecegiz.
- Resources, AWS uzerinde calistirdigimiz makinalar ve islemler butunu ve mutlaka eklenmesi gerekmektedir.
- Oncelikle security grup olusturacagiz. Security yazip 3. secenegiz aciyoruz.

```
Resources:

JugicalID:
Type: AWS::EC2::SecurityGroup
Properties:
GroupDescription: "String" # Required
GroupName: "String"
SecurityGroupEgress:
SecurityGroupEgress
SecurityGroupIngress:
SecurityGroupIngress
Tags:
Tags:
Tags
VpcId: "String"

Outputs:
```

- LogicalID yazan kisma istedigimiz ismi atayabiliriz. Biz simdilik WebServerSecurityGroup yaziyoruz
- Type ==> ayni kaliyor
- GroupDescription kismina yazilacak ==> Enable HTTP for Apache Server and SSH secure connection
- Groupname i siliyoruz
- Securitygroupingress kismi kaliyor egress kismini siliyoruz.
- Securitygroupingress kismina 'securityg' yazinca gorseldeki kismi acacagiz

```
SecurityGroupIngress:

securityg

Tags: security-group-egress-ci. security-group-egress-..
```

- Sayfa goruntusu gorseldeki gibi olacak

```
cloudformation.json

AWSTemplateFormatVersion: 2010-09-09

Description: >

This CloudFormation Template was written for running Kittens Carousel Static Website on EC2.

Kittens Carousel Static Website will be deployed on Amazon Linux 2 (ami-026dea5602e368e96) EC2 Instance with custom security group which allows http connections on port 80 and ssh port 22 from anywhere.

Kittens Carousel Static Website is downloaded from my Public Github repository, then deployed on Apache Web Server.
```

```
doudformation.json

AWSTEMPLATEFORMATVERSION: 2010-09-09

Description: >

This cloudFormation Template was written for running Kittens Carousel Static Website on EC2.

Kittens Carousel Static Website will be deployed on Amazon Linux 2 (ami-026dea5602e368e96) EC2 Instance with custom security group which allows http connections on port 80 and ssh port 22 from anywhere.

Kittens Carousel Static Website is downloaded from my Public Github repository, then deployed on Apache Web Server.

Resources:

WebServerSecurityGroup:

Type: AWS::EC2::SecurityGroup

Properties:

GroupDescription: Enable HTTP for Apache Server and SSH secure connection # Required

SecurityGroupIngress:

- IpProtocol: tcp
FromPort:

ToPort:

ToPort:

Tags:

Tags:

Tags
VpcId: "String"

Outputs:
```

- Securitygroupingress kismini gorseldeki gibi 80 ve 22 olacak sekilde duzenliyoruz

```
Properties:

GroupDescription: Enable HTTP for Apache Set SecurityGroupIngress:

- IpProtocol: tcp
| FromPort: 80
| ToPort: 80
| CidrIp: 0.0.0.0/0
| Tags:
```

```
SecurityGroupIngress:

- IpProtocol: tcp
FromPort: 80
ToPort: 80
CidrIp: 0.0.0.0/0
- IpProtocol: tcp
FromPort: 22
ToPort: 22
CidrIp: 0.0.0.0/0
```



- Tag kismini siliyoruz
- Ec2 instance olusturacagiz dokuman ==>
   https://docs.aws.amazon.com/AWSCloudFormation/latest/User
   Guide/aws-properties-ec2-instance.html
- Instance yazip sekildekini seciyoruz. Bize uzun bir dizi cikaracak.



Gorseldeki ami ile baslayan ilk numarayi imageId kismina yapistiriyoruz.



Instancetype ==< t2.micro yaziyoruz</li>



- Resource altina yazdigimiz 'WebServerSecurityGroup' metni SecurityGroupsIds kismina basina !Ref yazarak ekliyoruz.



 EC2 acarken ilk gorsele yazmis oldugumuz degeri yaml dosyasi icerinde olusturmus olacagiz. \$ isaretiyle olusturacagimiz stack ismini atama



 Konsoldo 3. bolumde(Configure instance) kismindaki userdata bolumunu yazacagiz. Root'ta calisacagi icin sudo komutlarini kullanmaya gerek yok.



- Yaml dosyamizin gorseli ve yazi hali :

```
AWSTemplateFormatVersion: 2010-09-09
Description: >
This CloudFormation Template was written for running Kittens Carousel Static Website on EC2.
 Kittens Carousel Static Website will be deployed on Amazon Linux 2 (ami-0ab4d1e9cf9a1215a)
EC2 Instance with custom security group which allows http connections on port 80 and ssh port 22
 Kittens Carousel Static Website
is downloaded from my Public Github repository, then deployed on Apache Web Server.
 WebServerSecurityGroup:
Type: AWS::EC2::SecurityGroup
      GroupDescription: Enable HTTP for Apache Web Server and SSH for secure connection.
  WebServerHost:
Type: AWS::EC2::Instance
       InstanceType: t2.micro
KeyName: EC2_key
       SecurityGroupIds:
- !Ref WebServerSecurityGroup
               yum update -y
yum install httpd -y
               Project-101-kittens-carousel-static-website-ec2/static-web
cd /var/www/html
               wget $FOLDER/cat1.jpg
               wget $FOLDER/cat3.png
                systemctl start httpd
                systemctl enable http:
    - http://${PublicAddress}

- PublicAddress: !GetAtt WebServerHost.PublicDnsName

Description: Kittens Carousel Application URL
```

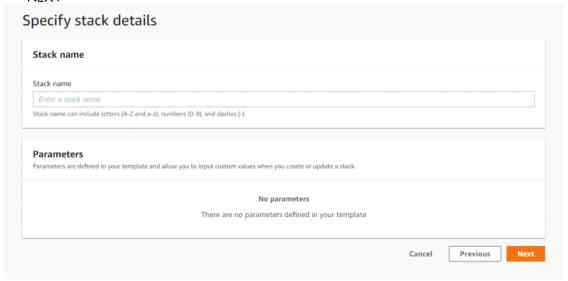
```
AWSTemplateFormatVersion: 2010-09-09
Description: >
  This CloudFormation Template was written for running Kittens Carousel Static
 Website on EC2.
  Kittens Carousel Static Website will be deployed on Amazon Linux 2 (ami-0ab4
d1e9cf9a1215a)
  EC2 Instance with custom security group which allows http connections on por
t 80 and ssh port 22
  from anywhere.
  Kittens Carousel Static Website
  is downloaded from my Public Github repository, then deployed on Apache Web
Server
Resources:
  WebServerSecurityGroup:
   Type: AWS::EC2::SecurityGroup
   Properties:
     GroupDescription: Enable HTTP for Apache Web Server and SSH for secure co
nnection.
     SecurityGroupIngress:
      - IpProtocol: tcp
        FromPort: 80
        ToPort: 80
        CidrIp: 0.0.0.0/0
      - IpProtocol: tcp
       FromPort: 22
ToPort: 22
CidrIp: 0.0.0.0/0
  WebServerHost:
    Type: AWS::EC2::Instance
    Properties:
      ImageId: ami-0ab4d1e9cf9a1215a
      InstanceType: t2.micro
      KevName: EC2 kev
      SecurityGroupIds:
        - !Ref WebServerSecurityGroup
      Tags:
        - Key: Name
          Value: !Sub Web Server of ${AWS::StackName} Stack
      UserData:
```

```
Fn::Base64:
           !Sub
            #! /bin/bash
            yum update -y
yum install httpd -y
FOLDER="https://raw.githubusercontent.com/hamidgokce/MY_PROJECTS/m
ain/aws/projects/
            Project-101-kittens-carousel-static-website-ec2/static-web"
             wget $FOLDER/index.html
            wget $FOLDER/cat0.jpg
            wget $FOLDER/cat1.jpg
            wget $FOLDER/cat2.jpg
            wget $FOLDER/cat3.png
             systemctl start httpd
             systemctl enable httpd
Outputs:
  WebsiteURL:
    Value: !Sub
      - http://${PublicAddress}
       - PublicAddress: !GetAtt WebServerHost.PublicDnsName
    Description: Kittens Carousel Application URL
```

- Yapmis oldugumuz degisikliklerimizi github repomuza push ediyoruz.
  - o Git status
  - o Git add.
  - o Git commit -m 'kittens carousel'
  - o Git push
- AWS cloudformation sayfasini acalim
  'https://console.aws.amazon.com/cloudformation/home?
  region=us-east-1#/'
- Create Stack



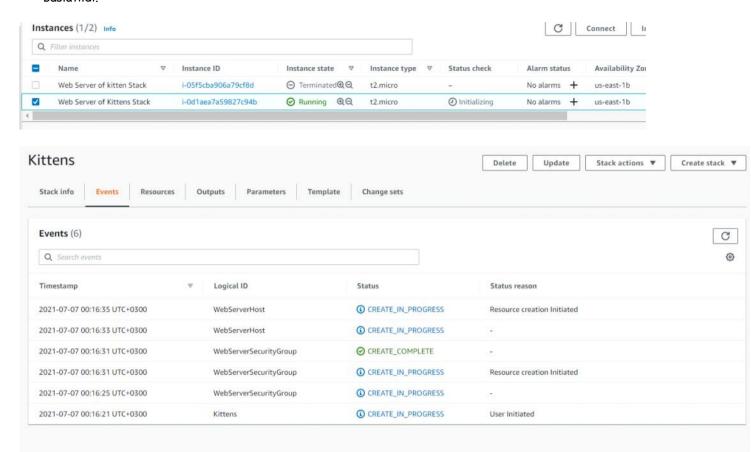
- **Upload a template file** kismini secip VS codda hazirlamis oldugumuz yaml dosyasini yukleyelim ve NEXT
- Acilan sayfadan olusturacagimiz stack e bir isim verelim ve NEXT



- Sonraki bolumleri default olarak birakip stack imizi create

ediyoruz.

 Stack hatasiz bir sekilde olustu ve yeni bir EC2 instance baslatildi.



- Outputs kisminda cikan linki tikladigimizda olusturdugumuz HTML dosyamizi browserda gorecegiz.

