Amazon Rekognition Hands-on: Recognizing celebrities in an image

Trying to follow below example from AWS dev guide

https://docs.aws.amazon.com/rekognition/latest/dg/celebrities-procedure-image.html

Cost Analysis:

Amazon S3:

- 5 GB of Standard Storage
- 20,000 Get Requests
- 2,000 Put Requests

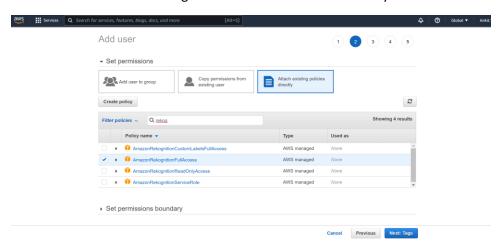
Amazon Rekognition:

During the free tier period you can analyze 5,000 images per month for free each, in Group 1 and Group 2 APIs.

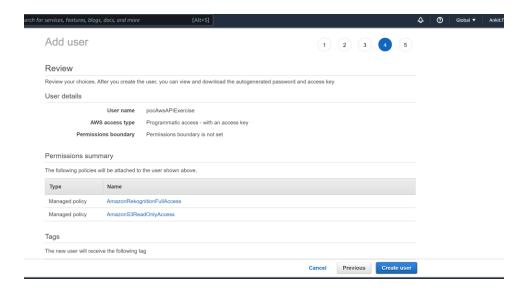
Steps:

IAM

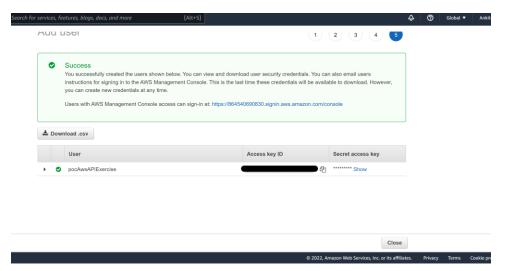
- Create a new user from IAM > Users > Add User
- Add user roles: Rekognition FullAccess and S3 Readonly



• Add name tag if you want to (optional). Review and Create user if all looks right.

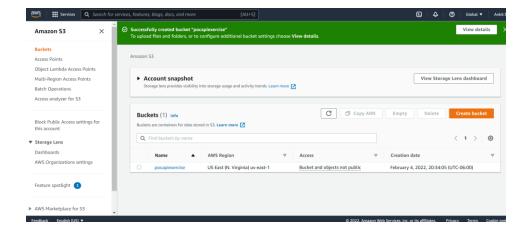


• Download the csv file or note down Access Key ID and secret key.

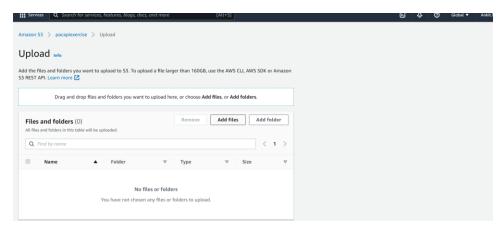


Amazon S3

• Create an S3 bucket



• Upload a celebrity image in there



AWS CLI

- Start command prompt and set-up AWS CLI to use the user we just created using 'aws configure' command.
- Then run the Rekognition API with bucket name and image name

```
aws rekognition recognize-celebrities --image
"S30bject={Bucket=pocapiexercise,Name=celeb.jpg}"
```

Voila! It recognizes all celebrities in the image. I've tried a few for fun and the result was accurate each time ©

CloudFormation Hands-on: Launch an Amazon EC2 Web Server

Trying to follow below example from AWS CloudFormation Guide:

https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/working-with-templates-cfn-designer-walkthrough-createbasicwebserver.html

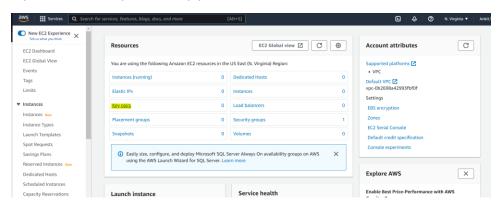
Cost-Analysis:

CloudFormation is a free service; however, you are charged for the AWS resources you include in your stacks at the current rate for each.

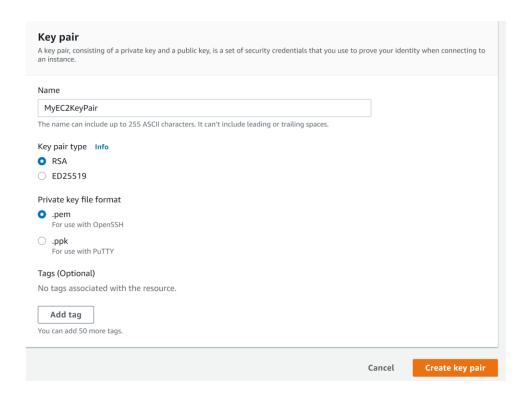
Steps:

EC2

If you don't already have a key-pair, create one from the EC2 console.



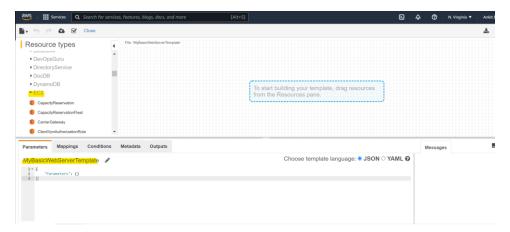
I've downloaded the PEM format here but you can specify PPK if you're used to that.



CloudFormation

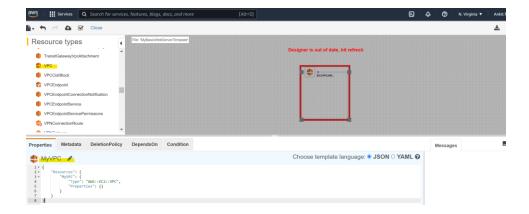
Launch CloudFormation Designer

Change the template name and expand EC2 category

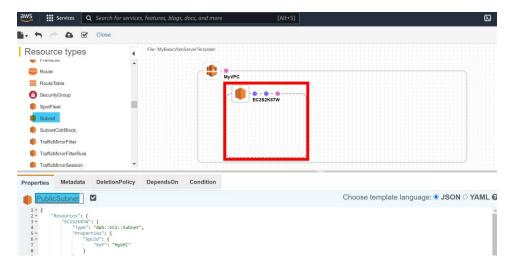


Drag-and-drop VPC onto the canvas and rename it. Hit refresh from top-right corner of the designer.

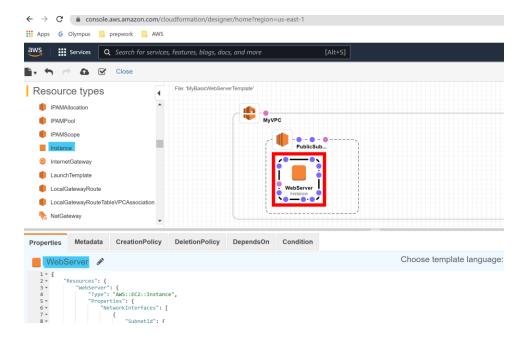
Drag the corners and make it a little bigger.



Drag-and-drop Subnet component from the category panel and rename it.

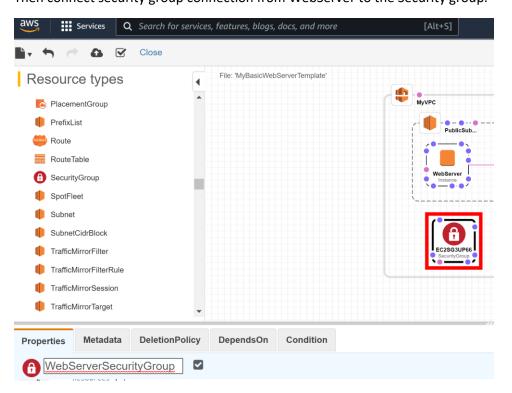


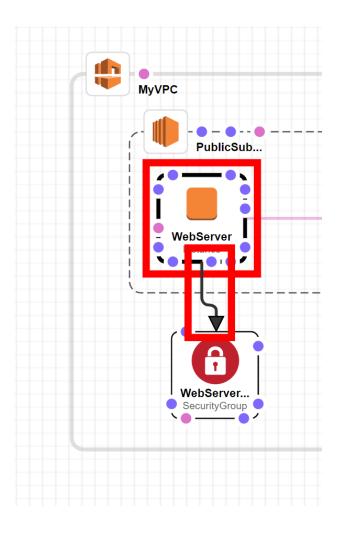
Drag Instance component from the category panel and drop it inside the Subnet and rename it.



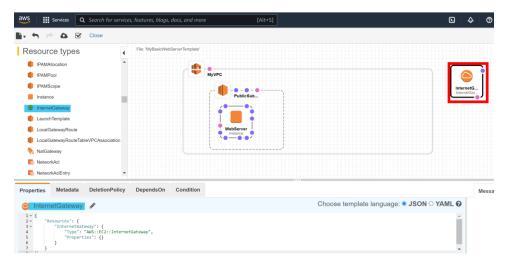
Drag-and-drop Security Group component from the category panel and rename it.

Then connect security group connection from WebServer to the Security group.

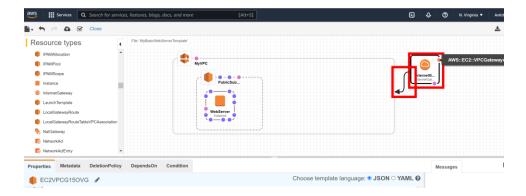




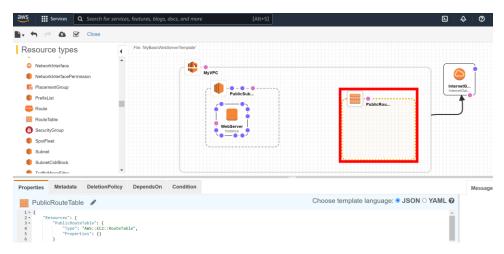
Drag-and-drop Internet Gateway component from the category panel inside the Subnet and rename it.



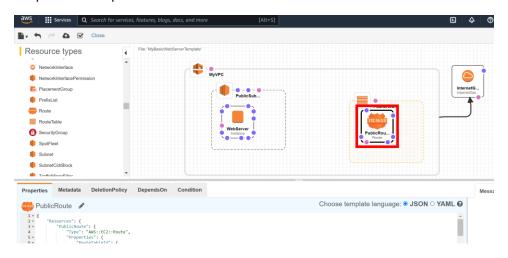
Attach IG to VPC



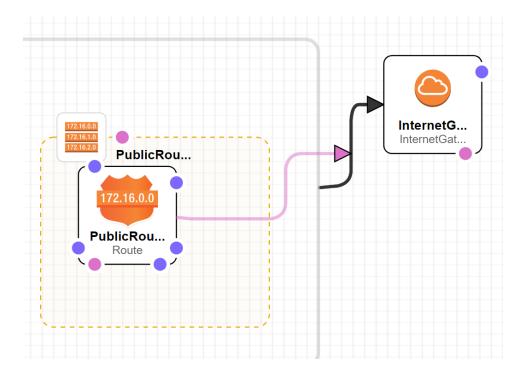
Drag and drop Route table into VPC. Expand the VPC size if it doesn't allow to drop it.



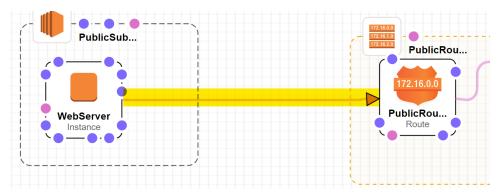
Drop Route component inside Route Table and rename it.



Create a "depends on" link between the route entry and IG

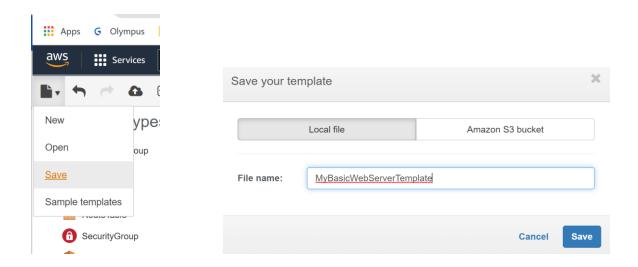


Now create a "depends on" link from WebServer to Route entry.



Now, copy over configurations to resources from the article page. Beware that some configs are to be replaced while others are to be appended.

Save the template file to your local now.

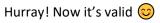


Now click on Validate icon from the toolbar and check if the template is correctly configured.



Looks like we got an error here! Let's try to understand. It says can't find WebServerInstance resource in the function.

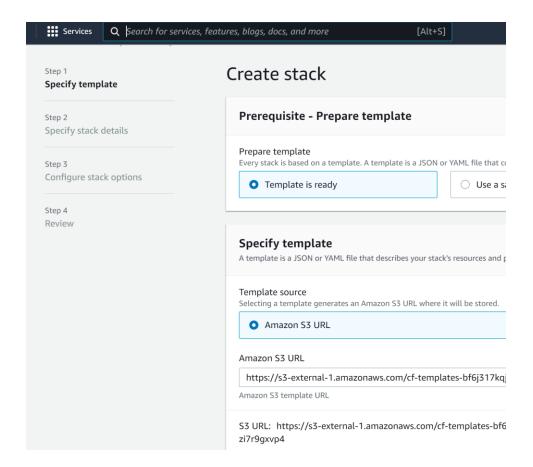
Okay, I get it. I had changed named few components different than in the article. I'm going to update that name in the function and run the validation check again.





It's time to provision resources and put the template into action.

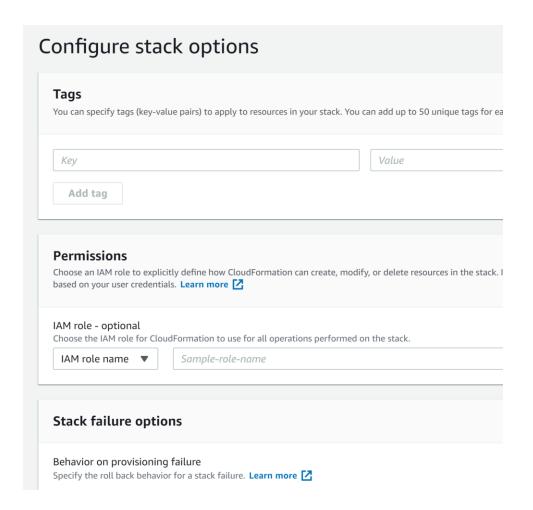
Click the cloud icon to create stack. It'll auto create an S3 bucket. Review details and click next.



Specify stack name, select instance type and then select key-pair that we created in first step. Click Next.

Stack name Stack name MyCFStack 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. InstanceType WebServer EC2 instance type t2.micro KeyName Name of an EC2 KeyPair to enable SSH access to the instance. MyEC2KeyPair SSHLocation The IP address range that can be used to access the web server using SSH. 0.0.0.0/0

Configure Stack options if you want to. Click Next



Review details and click Create Stack for AWS to start creating resources. And that's it!

