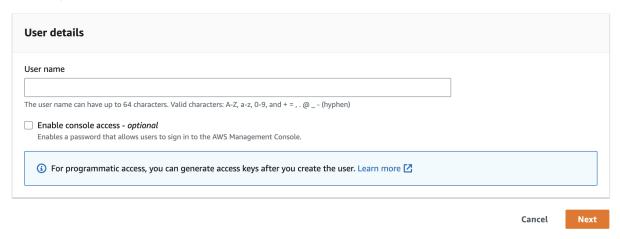
# Steps to implement Hands-on Project - Mission 2

# **Amazon Web Services**

- · Access AWS console and go to IAM service
- Under Access management, Click in "Users", then "Add users". Insert the User name luxxy-covid-testing-system-en-app1 and click in Next to create a programmatic user.

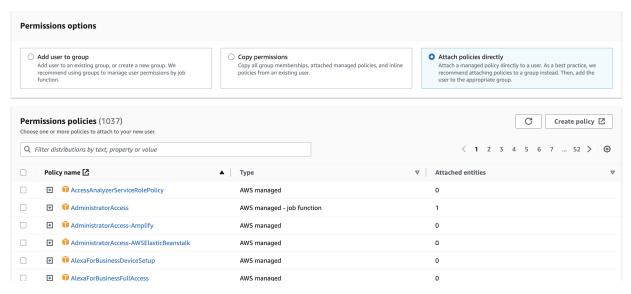
## Specify user details



• On Set permissions, Permissions options, click in "Attach policies directly" button.

#### Set permissions

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. Learn more 🖸



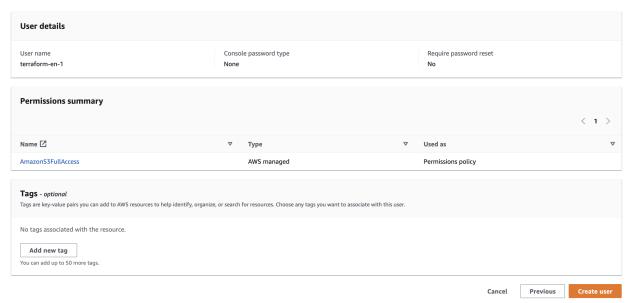
- Type AmazonS3FullAccess in Search.
- Select AmazonS3FullAccess



- Click in Next
- Review all details and click in Create user

#### Review and create

Review your choices. After you create the user, you can view and download the autogenerated password, if enabled.



# Steps to create access key:

- · Click on the user you have created.
- · Go to Security credentials tab.
- · Scroll down and go to Access keys section.
- Click on Create access key



- Select Command Line Interface (CLI) and I understand the above recommendation and want to proceed to create an access key checkbox.
- Click Next
- · Click on Create access key
- · Click on Download .csv file

- After download, click Done.
- Now, rename .csv file downloaded to luxxy-covid-testing-system-en-app1.csv

### **Google Cloud Platform (GCP)**

 Navigate to Cloud SQL instance and create a new user app with password welcome123456 on Cloud SQL MySQL database

https://prod-files-secure.s3.us-west-2.amazonaws.com/9a82f1a4-c086-4469-a0e e-c028781a5e80/e42adbaf-eb30-44dd-a3b4-23c0e8346ccf/SQL\_User\_Creation \_EDITED.mp4

- Connect to Google Cloud Shell
- Download the mission2 files to Google Cloud Shell using the wget command as shown below

```
cd ~
mkdir mission2_en
cd mission2_en
wget https://tcb-public-events.s3.amazonaws.com/icp/mission2.zip
unzip mission2.zip
```

 Connect to MySQL DB running on Cloud SQL (once it prompts for the password, provide welcome123456)

```
mysql --host=<public_ip_cloudsql> --port=3306 -u app -p
```

 Once you're connected to the database instance, create the products table for testing purposes

```
use dbcovidtesting;
source ~/mission2_en/mission2/en/db/create_table.sql
show tables;
exit;
```

Enable Cloud Build API via Cloud Shell.

```
# Command to enable Cloud Build API
gcloud services enable cloudbuild.googleapis.com
```

#### Known issue during this step

If you see the error below, please follow the steps to fix it:

```
ERROR: (gcloud.builds.submit) INVALID_ARGUMENT: could not resolve source: googleapi: Error 403: 989404026119@cloudbuild.gserviceaccount.com does not have storage.objects.get access to the Google Cloud Storage object., forbidden

To solve it:

1. Access IAM & Admin;
2. Click on check-box Include Google-provided role grants;
3. Click and select your Cloud Build Service Account

Example: 989404026119@cloudbuild.gserviceaccount.com Cloud Build Service Account

4. On your Cloud Build Service Account, right side, click on Edit principal
5. Click on Add another role
6. Click on Select Role, and filter by Storage Admin or gcs. Select Storage Admin (Full control of GCS resources).
7. Click on Save and go to Cloud Shell.
```

 Build the Docker image and push it to Google Container Registry. Please replace the <PROJECT ID> with your My First Project ID.

```
cd ~/mission2_en/mission2/en/app
gcloud builds submit --tag gcr.io/<PROJECT_ID>/luxxy-covid-testing-system-app-en
```

Open the Cloud Editor and edit the Kubernetes deployment file (luxxy-covid-testing-system.yaml) and update the variables below on line 33 in red with your <PROJECT\_ID> on the Google Container Registry path, on line 42 AWS Bucket name, AWS Keys (open file luxxy-covid-testing-system-en-app1.csv and use Access key ID on line 44 and Secret access key on line 46) and Cloud SQL Database Private IP on line 48.

- Connect to the GKE (Google Kubernetes Engine) cluster via Console (follow the video)
- · Deploy the application Luxxy in the Cluster

```
cd ~/mission2_en/mission2/en/kubernetes
kubectl apply -f luxxy-covid-testing-system.yaml
```

- Get the Public IP and test the application (<u>CLICK HERE to download COVID-19</u>
   <u>Testing result sample</u>). Search for **GKE**, click on **Services & Ingress**, and then on
   <u>Endpoints</u> address:port
- You should see the app up & running! Congrats!

LUXXY Guest Name... Search New View Guest Results

# Luxxy - Luxury Hotels & Resorts

COVID-19 Testing Status System

Add guest result »



© The Cloud Bootcamp. All rights reserved (Created for educational purporses only - prohibited production)