## Deploy Cal Notify to Docker Containers

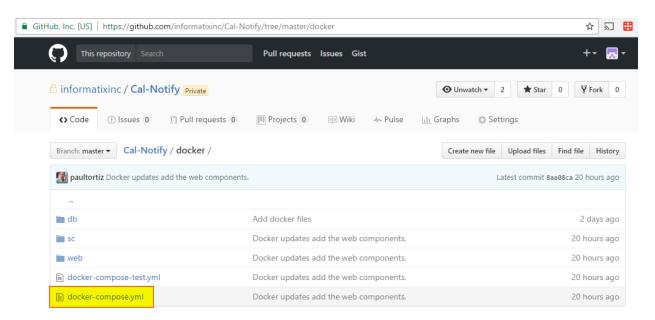
## **PREREQUISITES:**

- The docker host must have internet access
- The docker host must be able to communicate with smtp.qmail.com: 587
- 1. Install docker and docker-compose onto your platform of choice. The screenshots in this document are of docker v1.13.1, docker-compose v1.11.1 running on Ubuntu v16.04.1 (Xenial).

https://www.docker.com/products/docker

https://docs.docker.com/compose/install/

2. Obtain a copy of the Cal Notify docker-compose.yml file from the project GitHub repository at <a href="https://github.com/informatixinc/Cal-Notify">https://github.com/informatixinc/Cal-Notify</a>.



- 3. Log into your docker host. At a desired location create a directory called calnotify or any name of your choosing.
- 4. Create, copy or transfer the docker-compose.yml file to this directory.

```
ubuntu@ip-10-0-50-53: ~/calnotify
ubuntu@ip-10-0-50-53:~$ cd calnotify
ubuntu@ip-10-0-50-53:~/calnotify$ ls
docker-compose.yml
ubuntu@ip-10-0-50-53:~/calnotify$ more d*
version: "2"
services:
  web:
    image: infxinc/calnotify-web
    restart: always
    ports:
     - "80:80"
    links:
      - sc
  sc:
    restart: always
    image: infxinc/calnotify-sc
    expose:
       - "8080"
    links:
    depends on:
      - db
  db:
    restart: always
    image: infxinc/calnotify-db
    ports:
      - "5432:5432"
    volumes from:
      - db-data
  db-data:
    image: cogniteev/echo
    command: echo 'Data Container for PostgreSQL'
    volumes:
      - /var/lib/postgresgl/data
ubuntu@ip-10-0-50-53:~/calnotify$ ^C
ubuntu@ip-10-0-50-53:~/calnotify$
```

5. Enter the command docker-compose up -d, which will build, create, start and attach to the containers for the Cal Notify service.

Digest: sha256:6030e47674554e2c8d177f34e19da92871695684d69c0ac8d1e013c9aaec1ef2

Status: Downloaded newer image for infxinc/calnotify-web:latest

31123d939af1: Pull complete 23f1bdd267a9: Pull complete eabdf0b0c66e: Pull complete

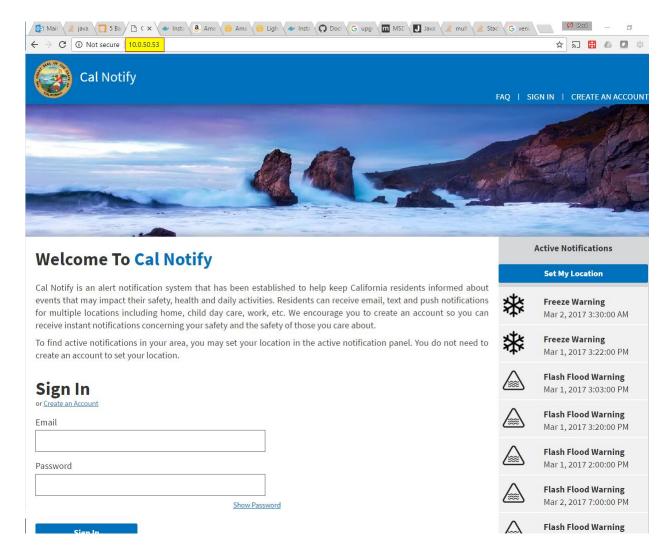
Creating calnotify\_db-data\_1 Creating calnotify\_db\_1 Creating calnotify\_sc\_1 Creating calnotify\_web 1

ubuntu@ip-10-0-50-53:~/calnotify\$

6. Wait a minute or two for the service to initialize, and then enter the command curl http:/localhost.The response output is the index.html for the Cal Notify homepage, showing the application is up and running.

```
ubuntu@ip-10-0-50-53: ~/calnotify
ubuntu@ip-10-0-50-53:~/calnotify$ curl http://localhost
<!DOCTYPE html>
<html>
<head>
  <base href="/">
  <title>Cal Notify</title>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  k rel="stylesheet" href="assets/css/bootstrap.css">
  k rel="stylesheet" href="assets/css/font-awesome.min.css">
  <link rel="stylesheet" href="assets/css/uswds.css">
  k rel="stylesheet" href="assets/css/style.css">
  <script src="assets/js/sha-512.js" type="text/javascript" defer></script>
  <script src="https://code.jquery.com/jquery-3.1.1.min.js" integrity="sha256-hVVnYaiADRTO2PzUGmuLJr8BLUSjGIZsDYGmIJLv2b8</pre>
t/javascript" defer></script>
  <script src="assets/js/bootstrap.min.js" type="text/javascript" defer></script>
  <script src="https://www.gstatic.com/charts/loader.js" type="text/javascript" defer></script>
 carript src="https://www.gstatic.com/firebasejs/3.6.10/firebase.js" type="text/javascript" defer></script>
clink rel="manifest" href="assets/files/manifest.json">
<script src="polyfills.003c25544843353cd07a.bundle.js" type="text/javascript" defer></script><script src="vendor.aa24d558</pre>
avascript" defer></script><script src="main.74a06c6810bf184f376e.bundle.js" type="text/javascript" defer></script></head>
<body>
    Loading...
  </app>
  <script>
    setTimeout(function(){
      var config = {
        apiKey: "AIzaSyDqXuKcJAOviQIUvSAvhpLubA1TJjZDExc",
        authDomain: "calnotify-d2352.firebaseapp.com",
        messagingSenderId: "1081107955861"
      firebase.initializeApp(config);
    }, 3000);
  </script>
</body>
</html>
ubuntu@ip-10-0-50-53:~/calnotifv$
```

7. The docker-compose.yml has mapped the web server container port 80 to port 80 on the docker host. So from another local computer supporting a graphical user interface, you can open the Cal Notify web site in a web browser at <a href="http://dockerhostname">http://dockerip</a> and begin using the application.



8. To stop the service enter the command docker-compose stop, and to start them again enter docker-compose start.

```
ubuntu@ip-10-0-50-53: ~/calnotify
ubuntu@ip-10-0-50-53: ~/calnotify$ docker-compose stop
Stopping calnotify_web_1 ... done
Stopping calnotify_sc_1 ... done
Stopping calnotify_db_1 ... done
ubuntu@ip-10-0-50-53: ~/calnotify$ docker-compose start
Starting db-data ... done
Starting db ... done
Starting sc ... done
Starting web ... done
ubuntu@ip-10-0-50-53: ~/calnotify$
```

- 9. To remove the containers enter the command docker-compose down.
- 10. The Cal Notify docker images are pulled from a public docker hub repository at <a href="https://hub.docker.com/r/infxinc/">https://hub.docker.com/r/infxinc/</a>.

