Deployment Checklist & Testing Report

# THE QLIKTAG PLATFORM V3.2.1

Version 3.2.1
Published Date 06 Jul 2021
Last Revision Date 06 Jul 2021

# DEPLOYMENT CHECKLIST

This document describes the activities performed after production environment setup and deployment is completed. The aim of this is to verify and confirm the environment is functioning as expected.

| Date | Verified By | Reviewed By | Comments |
|---|---|---|---|
| 06 Jul 2021 | Mohit Kumar | Ram Prasad Palugula | |

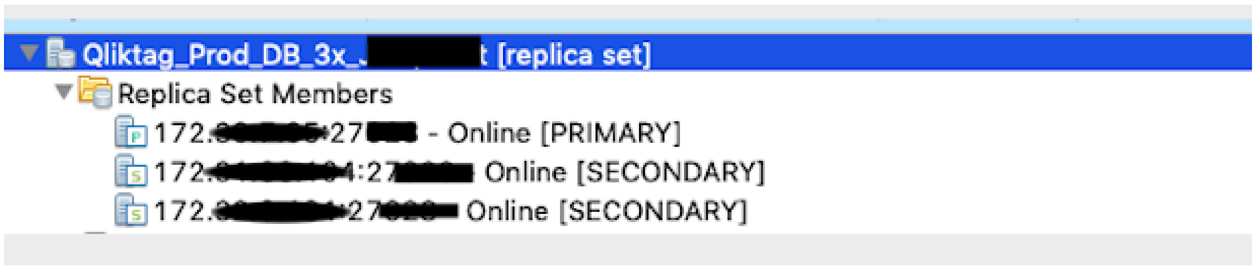
| Environment | Description |
|---|---|
| Production Live | Production environment |
| Production DR Environment | Disaster Recovery environment |
| Sandbox | A sandbox environment on same production code version which is used for testing's or pre-production development by enterprise customers |

**Production Environment**

| S No | Review Item | Result (Pass/Fail) |
|---|---|---|
| 1 | Verify the database replica set connection | Pass |
| 2 | Verify the Elasticsearch status | Pass |
| 3 | Verify the bitbucket pipeline status | Pass |
| 4 | Verify lambda service status in AWS console | Pass |
| 5 | Verify the lambda service running on NodeJS 10.x | Pass |
| 6 | Verify the web application is deployed with Angular correctly | Pass |
| 7 | Verify the API health status /api/health | Pass |
| 8 | Browse the web application and verify the page loading | Pass |
| 9 | Verify the login to the web application | Pass |
| 10 | Navigate inside the web application and verify few pages | Pass |
| 11 | Test few API GET, POST operations | Pass |
| 12 | Verify emails send through application | Pass |
| 13 | Verify image uploads through API and web application | Pass |
| 14 | Verify few visual Interaction landing pages | Pass |
| 15 | Verify the cloudwatch logs | Pass |

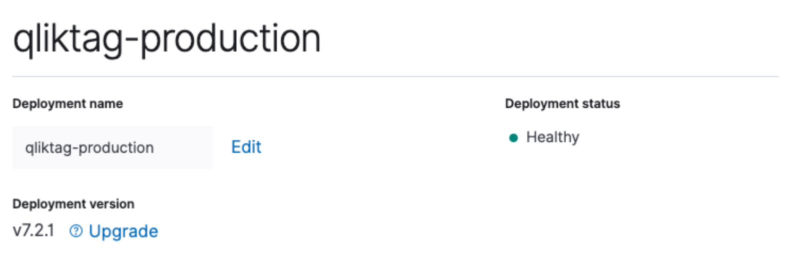
**Below are the proof of screen shots for each review item:**

**SNo #1**



Qliktag_Prod_DB_3x_[redacted]t [replica set]
Replica Set Members
172.[redacted]27[redacted] - Online [PRIMARY]
172.[redacted]4:27[redacted] Online [SECONDARY]
172.[redacted]27[redacted] Online [SECONDARY]

**SNo #2**



qliktag-production

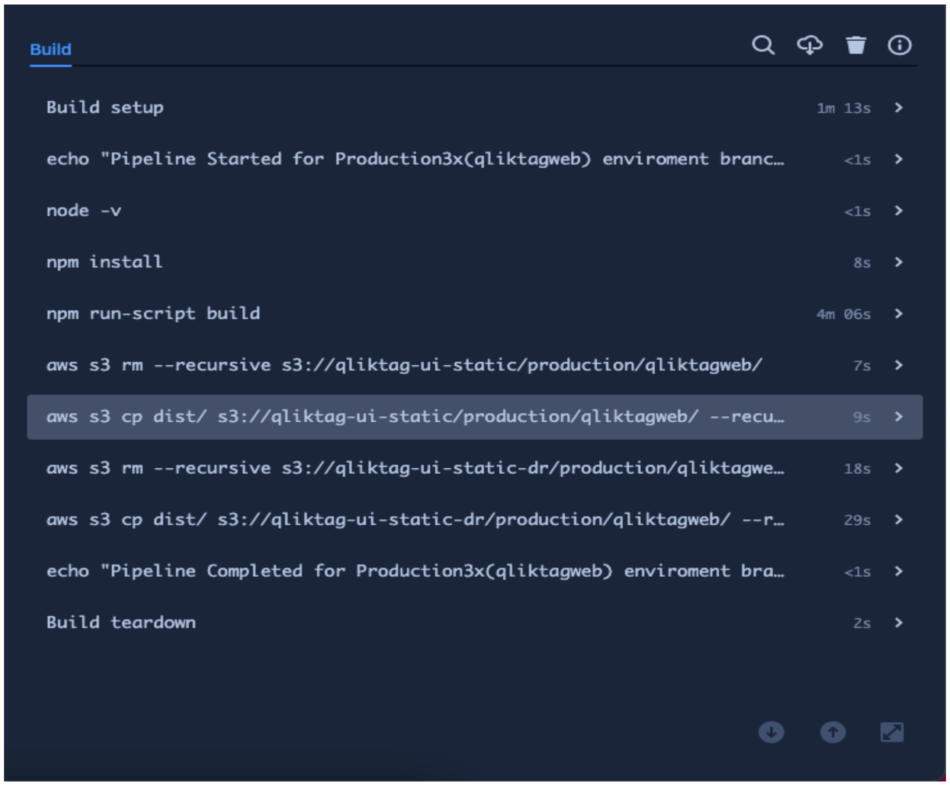
Deployment name
qliktag-production
Edit

Deployment status
● Healthy

Deployment version
v7.2.1 Upgrade

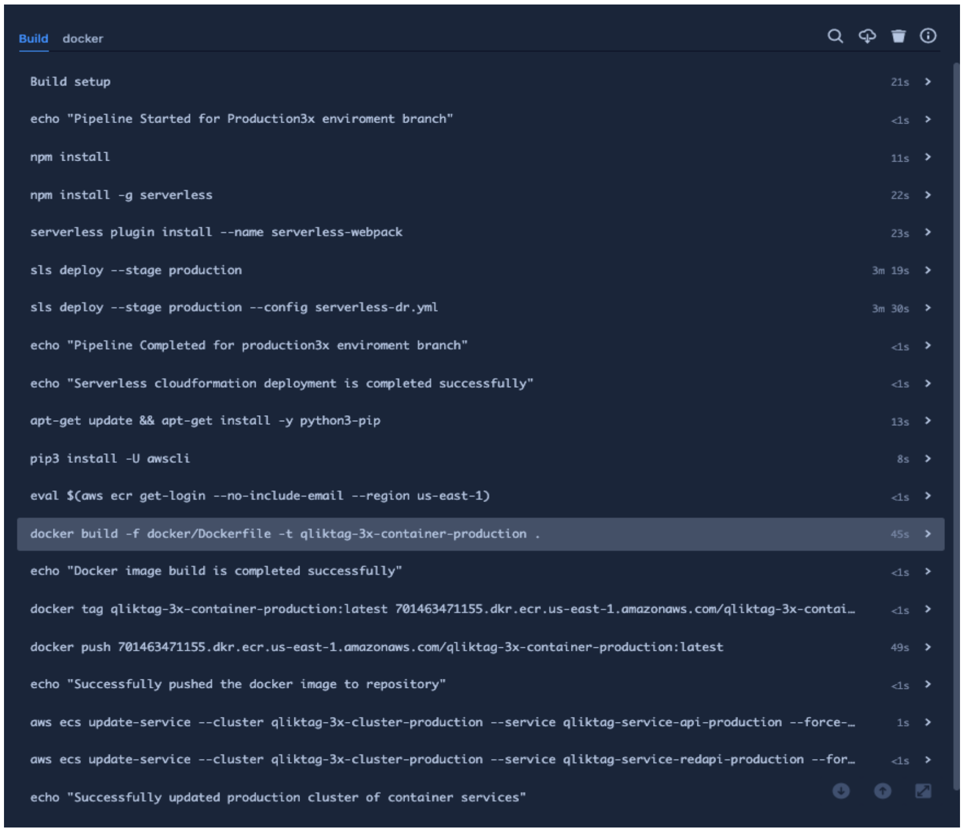
**SNo #3**

QliktagWeb application deployment



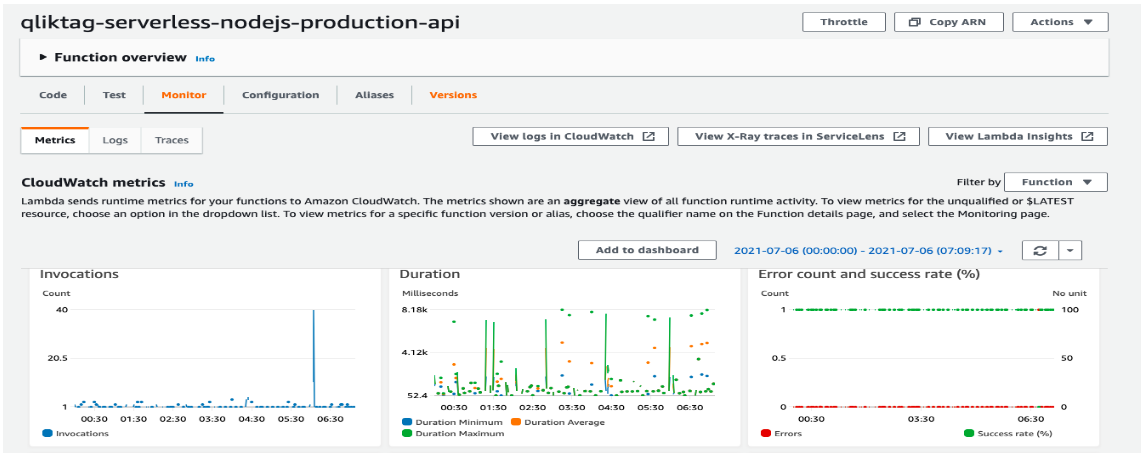
```
Build setup                                                                    1m 13s  >
echo "Pipeline Started for Production3x(qliktagweb) enviroment branc…            <1s   >
node -v                                                                          <1s   >
npm install                                                                       8s   >
npm run-script build                                                           4m 06s  >
aws s3 rm --recursive s3://qliktag-ui-static/production/qliktagweb/               7s   >
aws s3 cp dist/ s3://qliktag-ui-static/production/qliktagweb/ --recu…             9s   >
aws s3 rm --recursive s3://qliktag-ui-static-dr/production/qliktagwe…            18s   >
aws s3 cp dist/ s3://qliktag-ui-static-dr/production/qliktagweb/ --r…            29s   >
echo "Pipeline Completed for Production3x(qliktagweb) enviroment bra…            <1s   >
Build teardown                                                                    2s   >
```

QliktagAPI application deployment



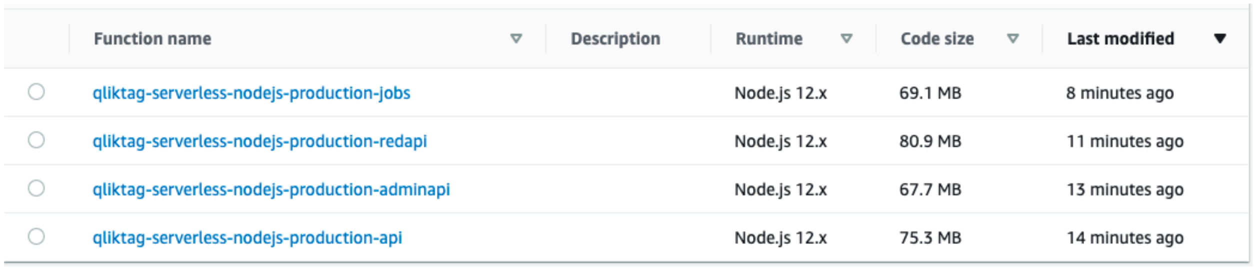
```
Build setup                                                                                              21s  >
echo "Pipeline Started for Production3x enviroment branch"                                               <1s  >
npm install                                                                                              11s  >
npm install -g serverless                                                                                22s  >
serverless plugin install --name serverless-webpack                                                      23s  >
sls deploy --stage production                                                                         3m 19s  >
sls deploy --stage production --config serverless-dr.yml                                              3m 30s  >
echo "Pipeline Completed for production3x enviroment branch"                                             <1s  >
echo "Serverless cloudformation deployment is completed successfully"                                    <1s  >
apt-get update && apt-get install -y python3-pip                                                         13s  >
pip3 install -U awscli                                                                                    8s  >
eval $(aws ecr get-login --no-include-email --region us-east-1)                                          <1s  >
docker build -f docker/Dockerfile -t qliktag-3x-container-production .                                   45s  >
echo "Docker image build is completed successfully"                                                      <1s  >
docker tag qliktag-3x-container-production:latest 701463471155.dkr.ecr.us-east-1.amazonaws.com/qliktag-3x-contai…   <1s  >
docker push 701463471155.dkr.ecr.us-east-1.amazonaws.com/qliktag-3x-container-production:latest          49s  >
echo "Successfully pushed the docker image to repository"                                                <1s  >
aws ecs update-service --cluster qliktag-3x-cluster-production --service qliktag-service-api-production --force-…   1s  >
aws ecs update-service --cluster qliktag-3x-cluster-production --service qliktag-service-redapi-production --for…   <1s  >
echo "Successfully updated production cluster of container services"
```

## SNo #4



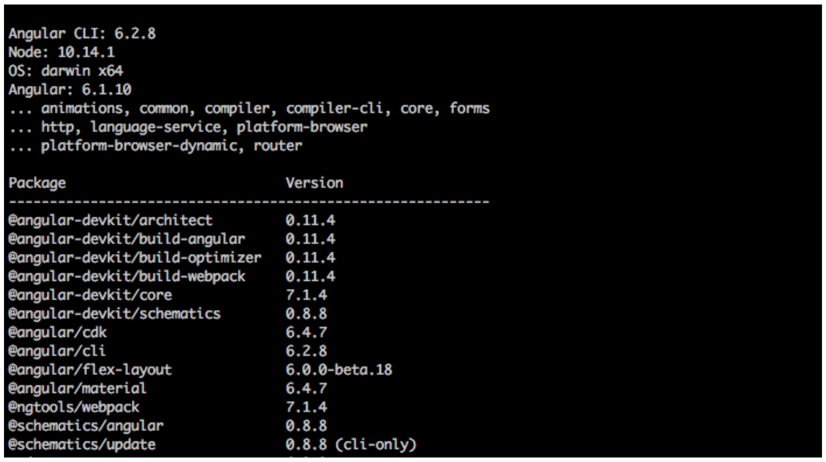
Lambda sends runtime metrics for your functions to Amazon CloudWatch. The metrics shown are an **aggregate** view of all function runtime activity. To view metrics for the unqualified or $LATEST resource, choose an option in the dropdown list. To view metrics for a specific function version or alias, choose the qualifier name on the Function details page, and select the Monitoring page.

## SNo #5



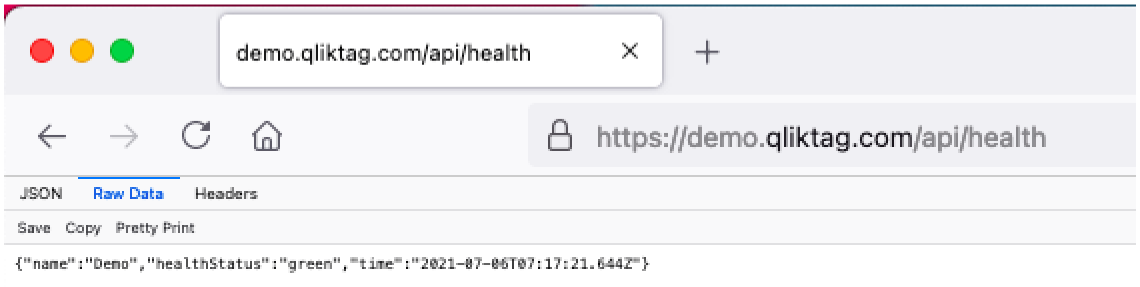
| | Function name | Description | Runtime | Code size | Last modified |
|---|---|---|---|---|---|
| ○ | qliktag-serverless-nodejs-production-jobs | | Node.js 12.x | 69.1 MB | 8 minutes ago |
| ○ | qliktag-serverless-nodejs-production-redapi | | Node.js 12.x | 80.9 MB | 11 minutes ago |
| ○ | qliktag-serverless-nodejs-production-adminapi | | Node.js 12.x | 67.7 MB | 13 minutes ago |
| ○ | qliktag-serverless-nodejs-production-api | | Node.js 12.x | 75.3 MB | 14 minutes ago |

## SNo #6



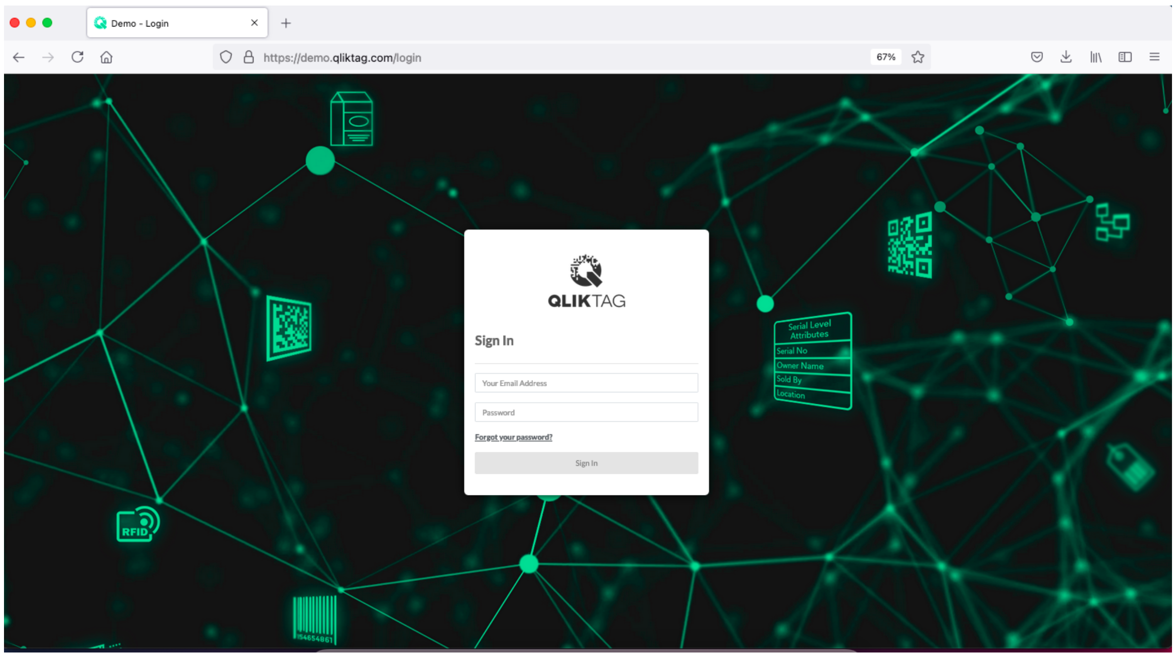
```
Angular CLI: 6.2.8
Node: 10.14.1
OS: darwin x64
Angular: 6.1.10
... animations, common, compiler, compiler-cli, core, forms
... http, language-service, platform-browser
... platform-browser-dynamic, router

Package                           Version
-----------------------------------------------------------
@angular-devkit/architect         0.11.4
@angular-devkit/build-angular     0.11.4
@angular-devkit/build-optimizer   0.11.4
@angular-devkit/build-webpack     0.11.4
@angular-devkit/core              7.1.4
@angular-devkit/schematics        0.8.8
@angular/cdk                      6.4.7
@angular/cli                      6.2.8
@angular/flex-layout              6.0.0-beta.18
@angular/material                 6.4.7
@ngtools/webpack                  7.1.4
@schematics/angular               0.8.8
@schematics/update                0.8.8 (cli-only)
```

**SNo #7**

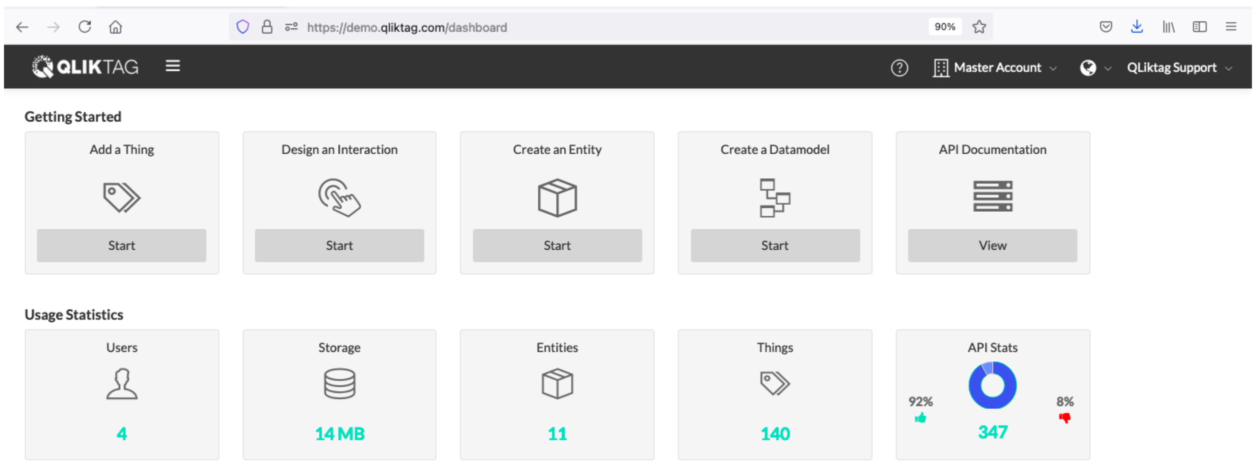

demo.qliktag.com/api/health
https://demo.qliktag.com/api/health
JSON
Raw Data
Headers
Save
Copy
Pretty Print

{"name":"Demo","healthStatus":"green","time":"2021-07-06T07:17:21.644Z"}

**SNo #8**



## SNo #9


https://demo.qliktag.com/dashboard

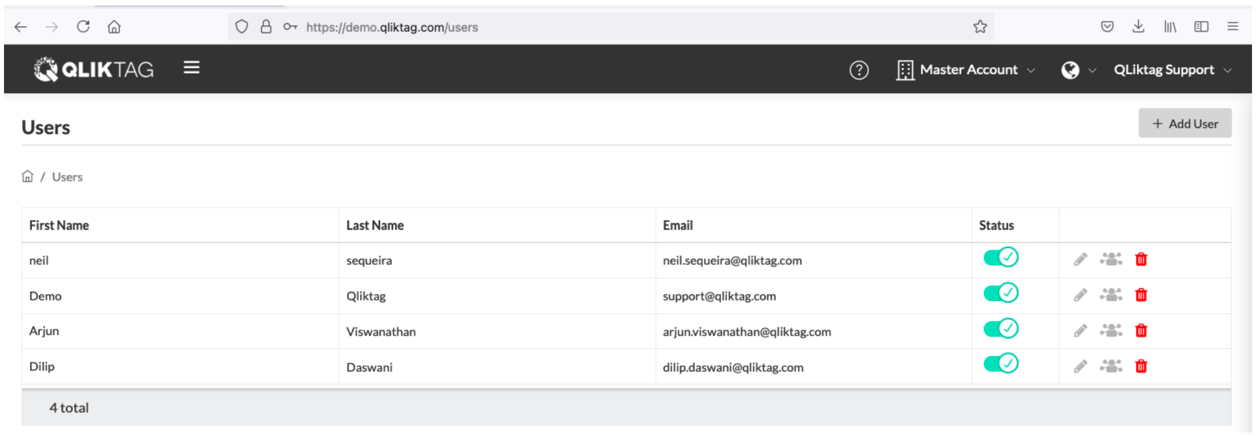
Getting Started

| Add a Thing | Design an Interaction | Create an Entity | Create a Datamodel | API Documentation |
|---|---|---|---|---|
| Start | Start | Start | Start | View |

Usage Statistics

| Users | Storage | Entities | Things | API Stats |
|---|---|---|---|---|
| 4 | 14 MB | 11 | 140 | 347 (92% 👍, 8% 👎) |

## SNo #10


https://demo.qliktag.com/users

Users

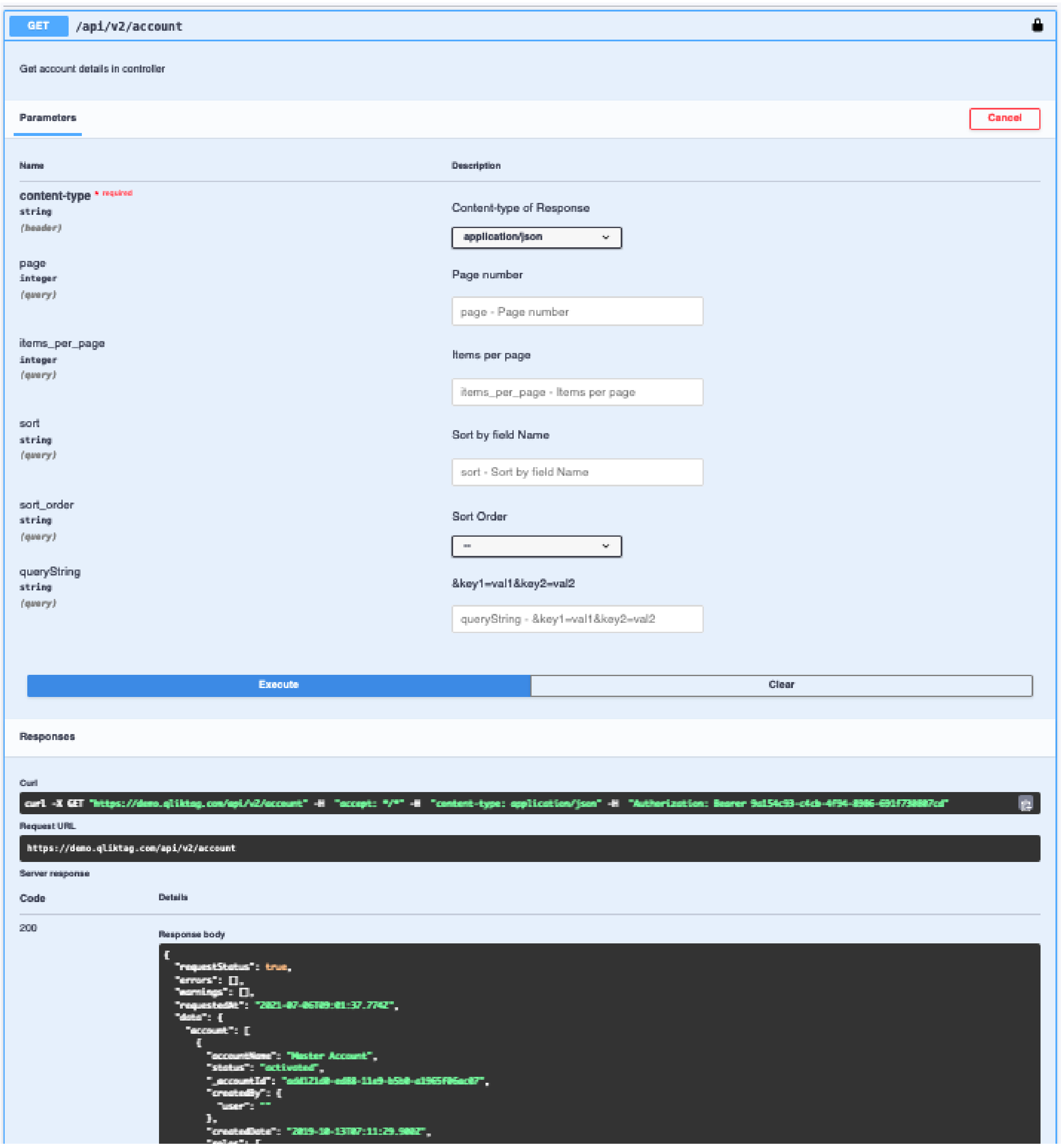
Users

| First Name | Last Name | Email | Status |
|---|---|---|---|
| neil | sequeira | neil.sequeira@qliktag.com | ✓ |
| Demo | Qliktag | support@qliktag.com | ✓ |
| Arjun | Viswanathan | arjun.viswanathan@qliktag.com | ✓ |
| Dilip | Daswani | dilip.daswani@qliktag.com | ✓ |

4 total

**SNo #11**

GET API



GET /api/v2/account

Get account details in controller

Parameters

Cancel

| Name | Description |
|---|---|
| content-type * required<br>string<br>*(header)* | Content-type of Response<br>application/json |
| page<br>integer<br>*(query)* | Page number<br>page - Page number |
| items_per_page<br>integer<br>*(query)* | Items per page<br>items_per_page - Items per page |
| sort<br>string<br>*(query)* | Sort by field Name<br>sort - Sort by field Name |
| sort_order<br>string<br>*(query)* | Sort Order<br>-- |
| queryString<br>string<br>*(query)* | &key1=val1&key2=val2<br>queryString - &key1=val1&key2=val2 |

Execute | Clear

Responses

Curl

```
curl -X GET "https://demo.qliktag.com/api/v2/account" -H "accept: */*" -H "content-type: application/json" -H "Authorization: Bearer 9a154c53-c4cb-4f94-8986-691f730887cd"
```

Request URL

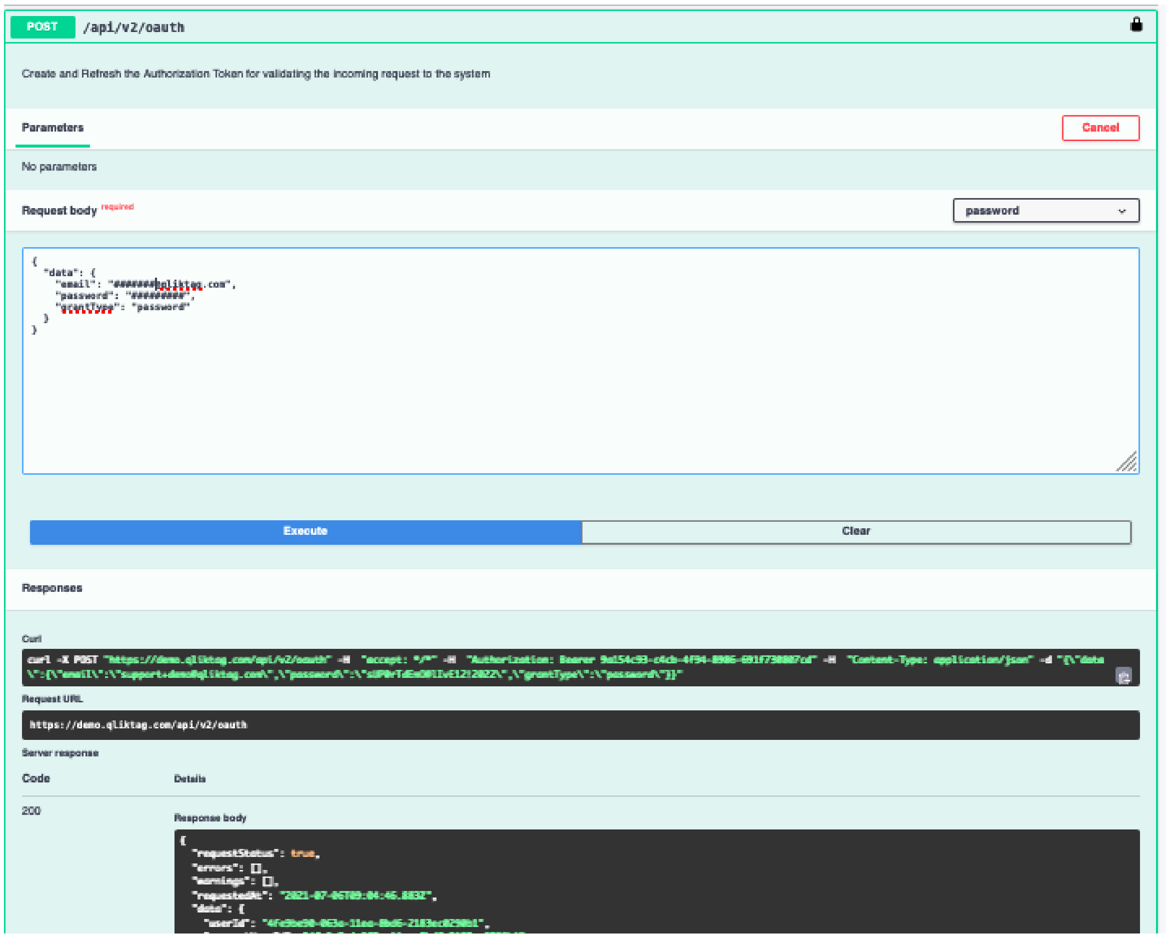
```
https://demo.qliktag.com/api/v2/account
```

Server response

| Code | Details |
|---|---|
| 200 | Response body |

```
{
  "requestStatus": true,
  "errors": [],
  "warnings": [],
  "requestedAt": "2021-07-06T09:01:37.774Z",
  "data": {
    "account": [
      {
        "accountName": "Master Account",
        "status": "activated",
        "_accountId": "ad0121d0-ed88-11e9-b5b0-a1965f06ac07",
        "createdBy": {
          "user": ""
        },
        "createdDate": "2019-10-13T07:11:29.900Z",
```

POST API



Create and Refresh the Authorization Token for validating the incoming request to the system

No parameters

Request body required

password

```
{
  "data": {
    "email": "#######qliktag.com",
    "password": "#########",
    "grantType": "password"
  }
}
```

Curl

```
curl -X POST "https://demo.qliktag.com/api/v2/oauth" -H  "accept: */*" -H  "Authorization: Bearer 9a154c93-c4cb-4f94-8986-691f730807cd" -H  "Content-Type: application/json" -d "{\"data
\":{\"email\":\"support+demo@qliktag.com\",\"password\":\"sUP0rTdEm0@1IvE12!2022\",\"grantType\":\"password\"}}"
```

Request URL

```
https://demo.qliktag.com/api/v2/oauth
```

Server response

| Code | Details |
|---|---|
| 200 | Response body |

```
{
  "requestStatus": true,
  "errors": [],
  "warnings": [],
  "requestedAt": "2021-07-06T09:04:46.883Z",
  "data": {
    "userId": "4fe9be90-063e-11ea-8bd6-2183ec0290b1",
```

**SNo #12**

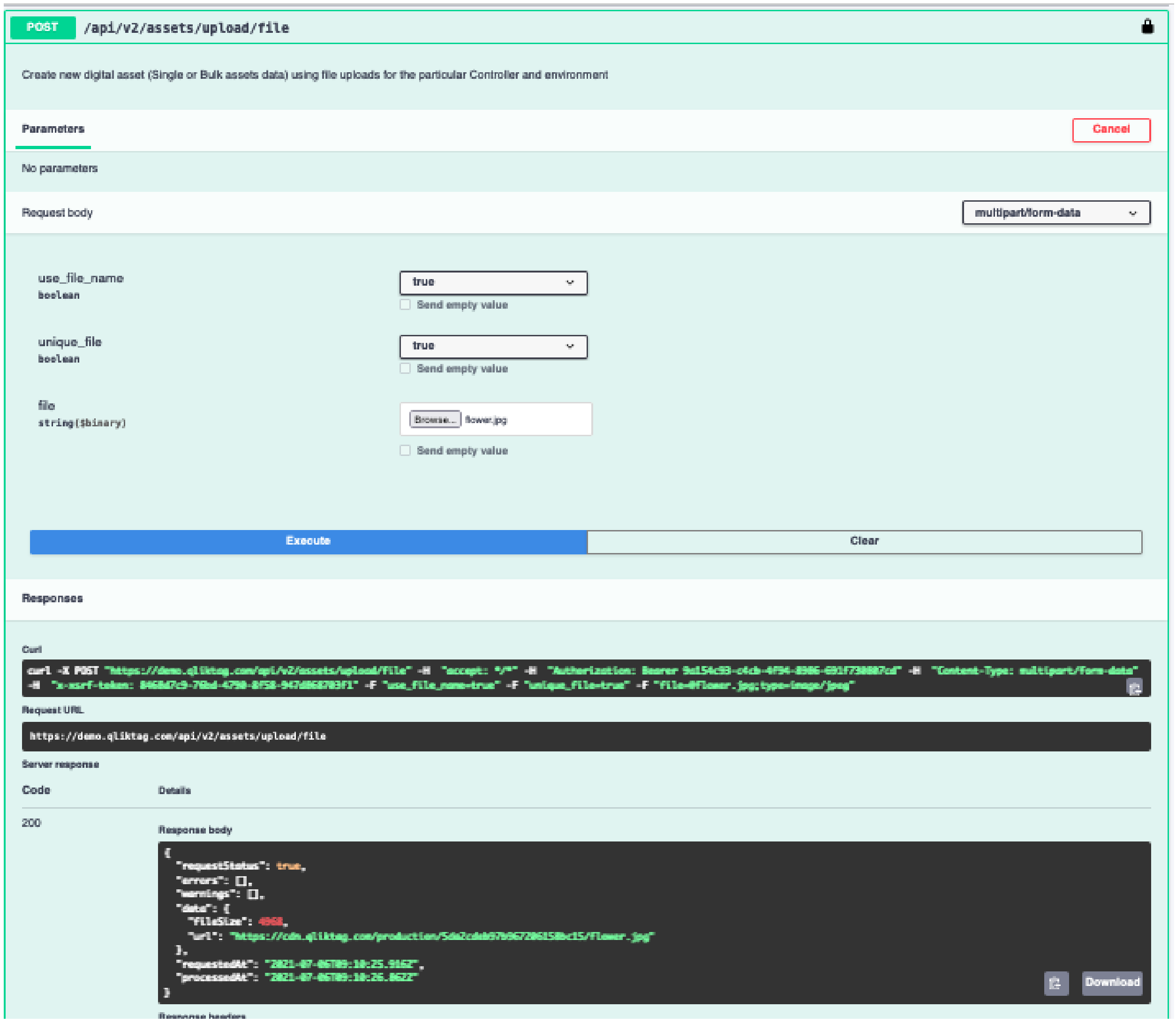
**Welcome!**

Mohit,

Demo is now using The Qliktag Platform – An IoT Platform for Everyday Consumer Products! The system Administrator Demo has invited you to join. In order to activate your user account, you will have to first set a secure password. Once you've set a password, you can login to the system using the password and details below:

**SNo #13**

Through API



POST /api/v2/assets/upload/file

Create new digital asset (Single or Bulk assets data) using file uploads for the particular Controller and environment

Parameters

Cancel

No parameters

Request body: multipart/form-data

| | |
|---|---|
| use_file_name (boolean) | true |
| unique_file (boolean) | true |
| file (string($binary)) | flower.jpg |

Execute | Clear

Responses

Curl

```
curl -X POST "https://demo.qliktag.com/api/v2/assets/upload/file" -H  "accept: */*" -H  "Authorization: Bearer 9a154c93-c4cb-4f94-8986-691f73080?cd" -H  "Content-Type: multipart/form-data" -H  "x-xsrf-token: 8468d7c9-70bd-4790-8f58-947d868703f1" -F "use_file_name=true" -F "unique_file=true" -F "file=@flower.jpg;type=image/jpeg"
```

Request URL

```
https://demo.qliktag.com/api/v2/assets/upload/file
```

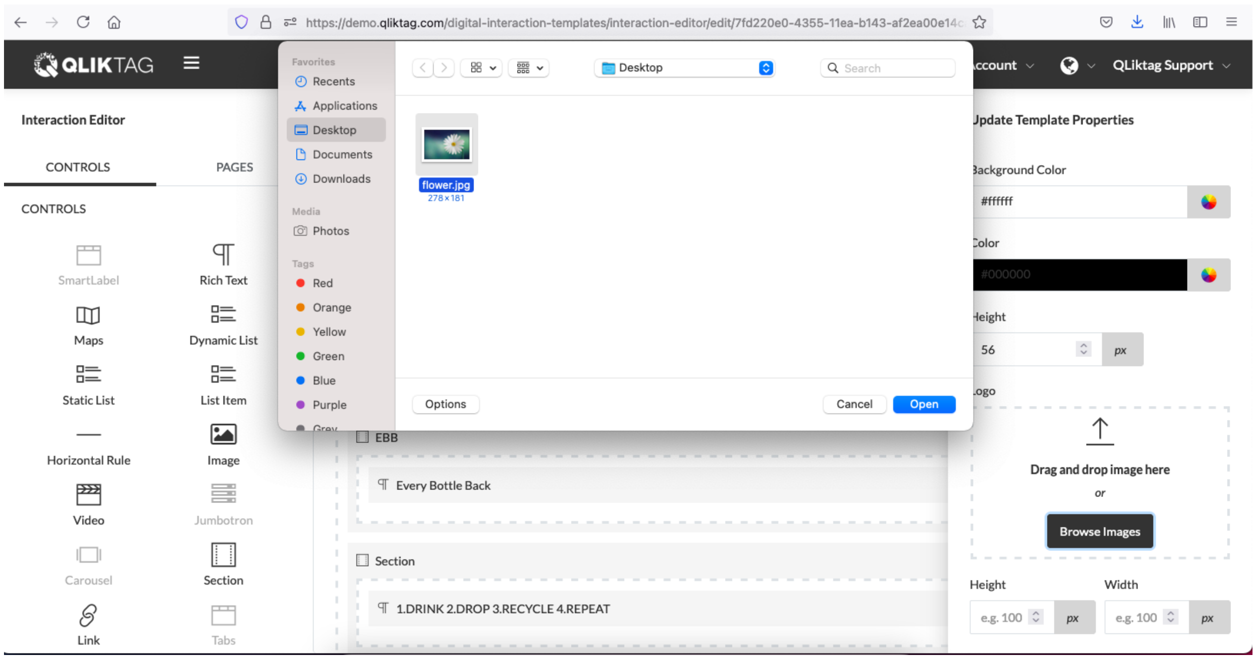
Server response

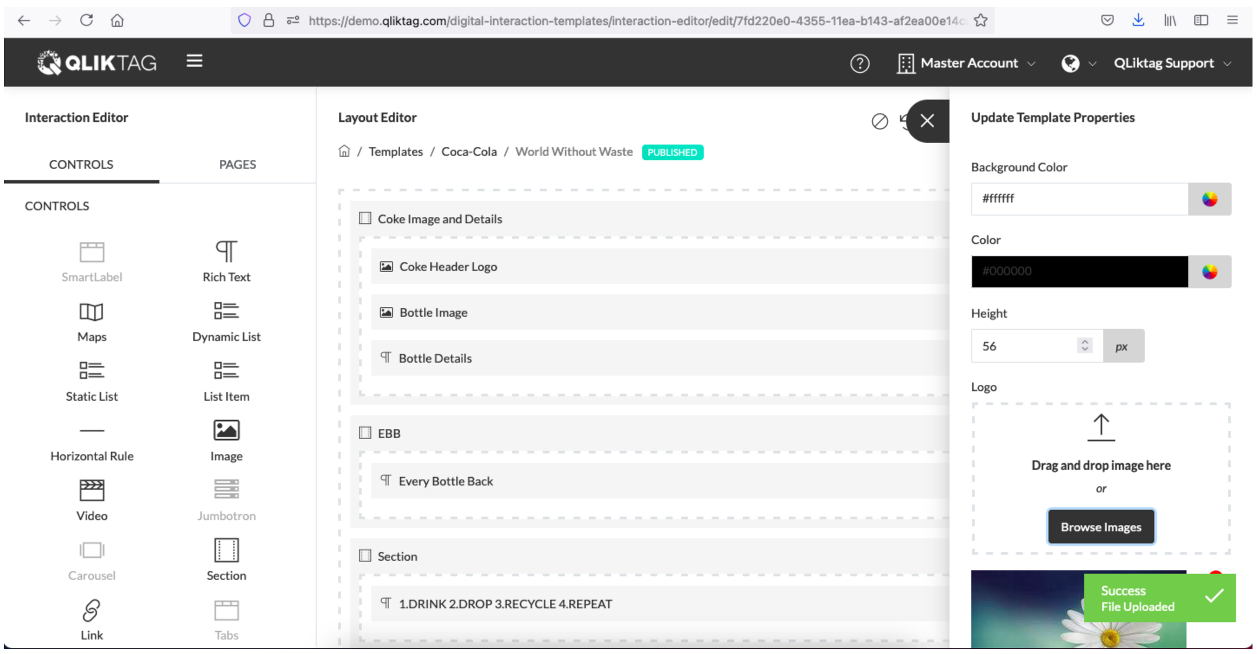
| Code | Details |
|---|---|
| 200 | Response body |

```
{
  "requestStatus": true,
  "errors": [],
  "warnings": [],
  "data": {
    "fileSize": 4968,
    "url": "https://cdn.qliktag.com/production/5da2cdd697b9672061580c15/flower.jpg"
  },
  "requestedAt": "2021-07-06T09:10:25.916Z",
  "processedAt": "2021-07-06T09:10:26.862Z"
}
```

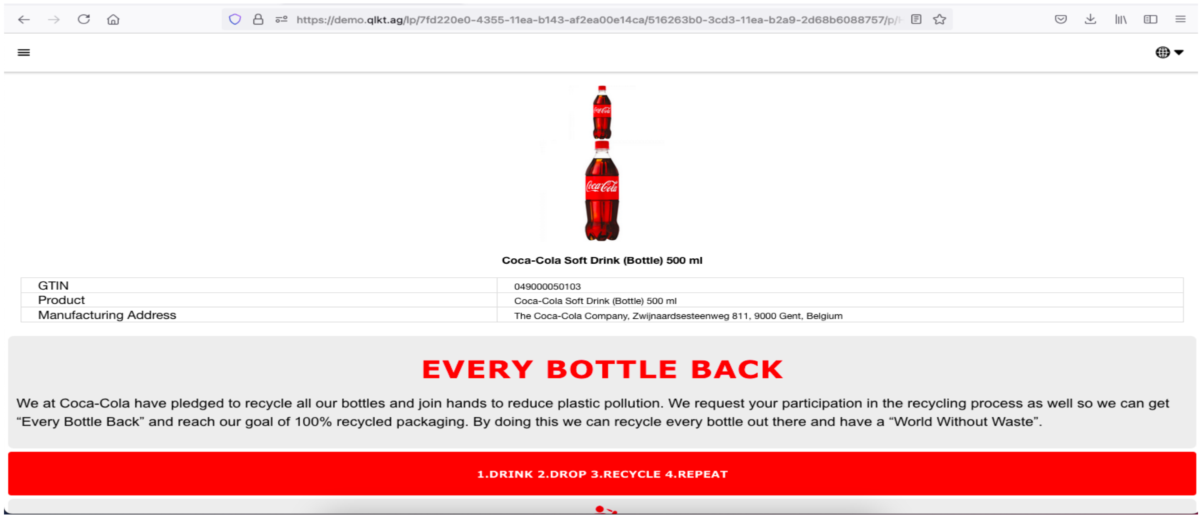
Response headers

Through UI


https://demo.qliktag.com/digital-interaction-templates/interaction-editor/edit/7fd220e0-4355-11ea-b143-af2ea00e14c
QLIKTAG
Interaction Editor
CONTROLS
PAGES
CONTROLS
SmartLabel
Rich Text
Maps
Dynamic List
Static List
List Item
Horizontal Rule
Image
Video
Jumbotron
Carousel
Section
Link
Tabs
Favorites
Recents
Applications
Desktop
Documents
Downloads
Media
Photos
Tags
Red
Orange
Yellow
Green
Blue
Purple
Grey
Desktop
Search
flower.jpg
278×181
Options
Cancel
Open
EBB
Every Bottle Back
Section
1.DRINK 2.DROP 3.RECYCLE 4.REPEAT
ccount
QLiktag Support
Update Template Properties
Background Color
#ffffff
Color
#000000
Height
56
px
Logo
Drag and drop image here
or
Browse Images
Height
Width
e.g. 100
px
e.g. 100
px


https://demo.qliktag.com/digital-interaction-templates/interaction-editor/edit/7fd220e0-4355-11ea-b143-af2ea00e14c
QLIKTAG
Master Account
QLiktag Support
Interaction Editor
CONTROLS
PAGES
CONTROLS
SmartLabel
Rich Text
Maps
Dynamic List
Static List
List Item
Horizontal Rule
Image
Video
Jumbotron
Carousel
Section
Link
Tabs
Layout Editor
Templates / Coca-Cola / World Without Waste
PUBLISHED
Coke Image and Details
Coke Header Logo
Bottle Image
Bottle Details
EBB
Every Bottle Back
Section
1.DRINK 2.DROP 3.RECYCLE 4.REPEAT
Update Template Properties
Background Color
#ffffff
Color
#000000
Height
56
px
Logo
Drag and drop image here
or
Browse Images
Success
File Uploaded

## SNo #14


https://demo.qlkt.ag/lp/7fd220e0-4355-11ea-b143-af2ea00e14ca/516263b0-3cd3-11ea-b2a9-2d68b6088757/p/

**Coca-Cola Soft Drink (Bottle) 500 ml**

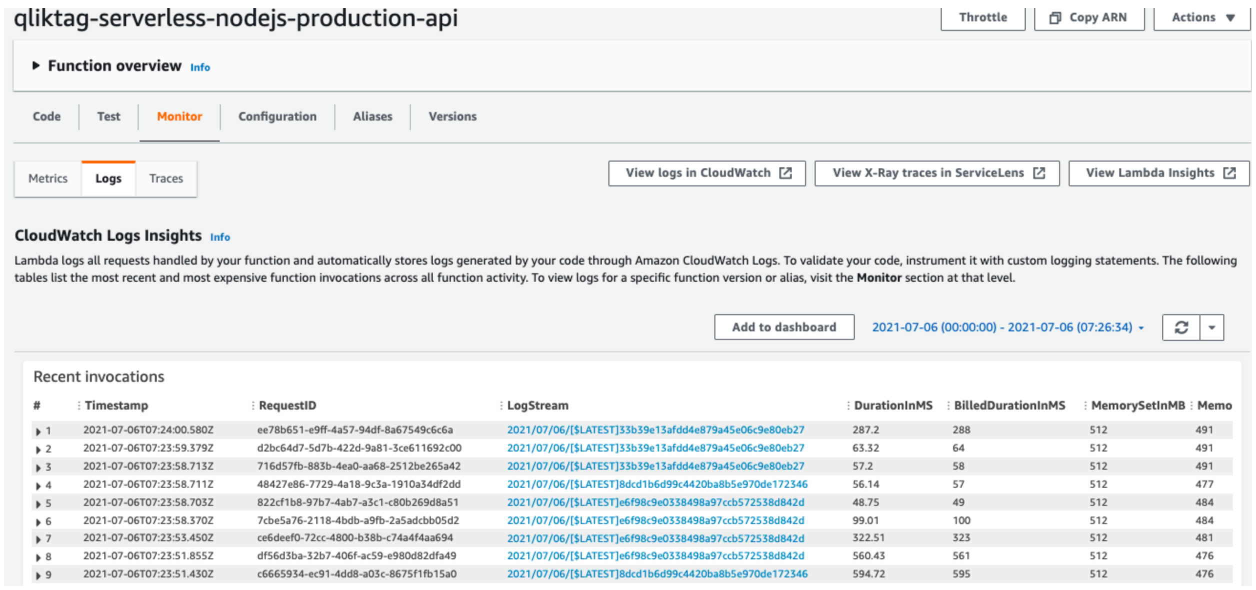
| | |
|---|---|
| GTIN | 049000050103 |
| Product | Coca-Cola Soft Drink (Bottle) 500 ml |
| Manufacturing Address | The Coca-Cola Company, Zwijnaardsesteenweg 811, 9000 Gent, Belgium |

**EVERY BOTTLE BACK**

We at Coca-Cola have pledged to recycle all our bottles and join hands to reduce plastic pollution. We request your participation in the recycling process as well so we can get "Every Bottle Back" and reach our goal of 100% recycled packaging. By doing this we can recycle every bottle out there and have a "World Without Waste".

1.DRINK 2.DROP 3.RECYCLE 4.REPEAT

## SNo #15



qliktag-serverless-nodejs-production-api

**CloudWatch Logs Insights** Info

Lambda logs all requests handled by your function and automatically stores logs generated by your code through Amazon CloudWatch Logs. To validate your code, instrument it with custom logging statements. The following tables list the most recent and most expensive function invocations across all function activity. To view logs for a specific function version or alias, visit the **Monitor** section at that level.

2021-07-06 (00:00:00) - 2021-07-06 (07:26:34)

Recent invocations

| # | Timestamp | RequestID | LogStream | DurationInMS | BilledDurationInMS | MemorySetInMB | Memo |
|---|---|---|---|---|---|---|---|
| 1 | 2021-07-06T07:24:00.580Z | ee78b651-e9ff-4a57-94df-8a67549c6c6a | 2021/07/06/[$LATEST]33b39e13afdd4e879a45e06c9e80eb27 | 287.2 | 288 | 512 | 491 |
| 2 | 2021-07-06T07:23:59.379Z | d2bc64d7-5d7b-422d-9a81-3ce611692c00 | 2021/07/06/[$LATEST]33b39e13afdd4e879a45e06c9e80eb27 | 63.32 | 64 | 512 | 491 |
| 3 | 2021-07-06T07:23:58.713Z | 716d57fb-883b-4ea0-aa68-2512be265a42 | 2021/07/06/[$LATEST]33b39e13afdd4e879a45e06c9e80eb27 | 57.2 | 58 | 512 | 491 |
| 4 | 2021-07-06T07:23:58.711Z | 48427e86-7729-4a18-9c3a-1910a34df2dd | 2021/07/06/[$LATEST]8dcd1b6d99c4420ba8b5e970de172346 | 56.14 | 57 | 512 | 477 |
| 5 | 2021-07-06T07:23:58.703Z | 822cf1b8-97b7-4ab7-a3c1-c80b269d8a51 | 2021/07/06/[$LATEST]e6f98c9e0338498a97ccb572538d842d | 48.75 | 49 | 512 | 484 |
| 6 | 2021-07-06T07:23:58.370Z | 7cbe5a76-2118-4bdb-a9fb-2a5adcbb05d2 | 2021/07/06/[$LATEST]e6f98c9e0338498a97ccb572538d842d | 99.01 | 100 | 512 | 484 |
| 7 | 2021-07-06T07:23:53.450Z | ce6deef0-72cc-4800-b38b-c74a4f4aa694 | 2021/07/06/[$LATEST]e6f98c9e0338498a97ccb572538d842d | 322.51 | 323 | 512 | 481 |
| 8 | 2021-07-06T07:23:51.855Z | df56d3ba-32b7-406f-ac59-e980d82dfa49 | 2021/07/06/[$LATEST]e6f98c9e0338498a97ccb572538d842d | 560.43 | 561 | 512 | 476 |
| 9 | 2021-07-06T07:23:51.430Z | c6665934-ec91-4dd8-a03c-8675f1fb15a0 | 2021/07/06/[$LATEST]8dcd1b6d99c4420ba8b5e970de172346 | 594.72 | 595 | 512 | 476 |

## Production Disaster Recovery (DR) Environment

| S No | Review Item | Result (Pass/Fail) |
|---|---|---|
| 1 | Verify the database replica set connection | Pass |
| 2 | Verify the Elasticsearch connection | Pass |
| 3 | Verify the bitbucket pipeline status | Pass |
| 4 | Verify lambda service status in AWS console | Pass |
| 5 | Verify the lambda service running on NodeJS 10.x | Pass |
| 6 | Verify the web application is deployed with Angular correctly | Pass |
| 7 | Verify the API health status /api/health | Pass |
| 8 | Browse the web application and verify the page loading | Pass |
| 9 | Verify cloudwatch logs | Pass |

## Sandbox Environment

Sandbox is a cloud account configuration with “<<controllerCode>>-sandbox” for enterprise customers in the same production release code. Only below verification items are applicable as it runs in the same production environment and is verified under production environment deployment.

| S No | Review Item | Result (Pass/Fail) |
|---|---|---|
| 1 | Browse the web application and verify the page loading | Pass |
| 2 | Verify the login to the web application | Pass |
| 3 | Navigate inside the web application and verify few pages | Pass |
| 4 | Test few API GET, POST operations | Pass |
| 5 | Verify emails send through application | Pass |
| 6 | Verify image uploads through API and web application | Pass |
| 7 | Verify few visual Interaction landing pages | Pass |
| | | |