Deployment Checklist & Testing Report

THE QLIKTAG PLATFORM V3.2

Version 1.0
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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
18 Jan 2021	Mohit Kumar	Ram Prasad Palugula	

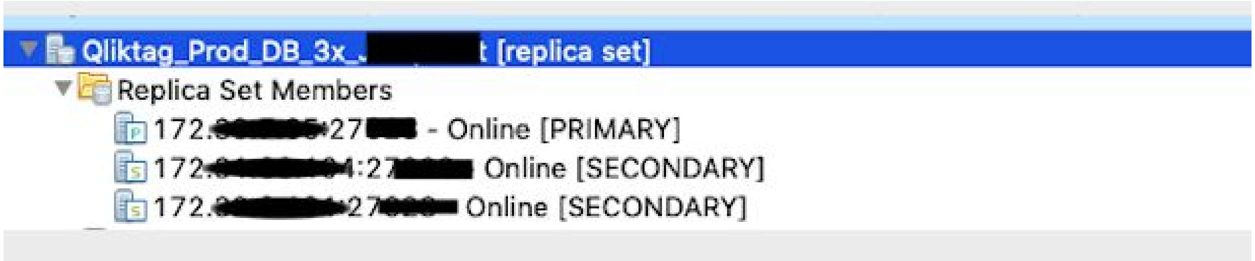
Environment	Description
Production Live	Production environment
Production DR Environment	Disaster Recovery environment
Sandbox	A sandbox environment on same production code version which is used for testing or pre-production development by enterprise customers

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

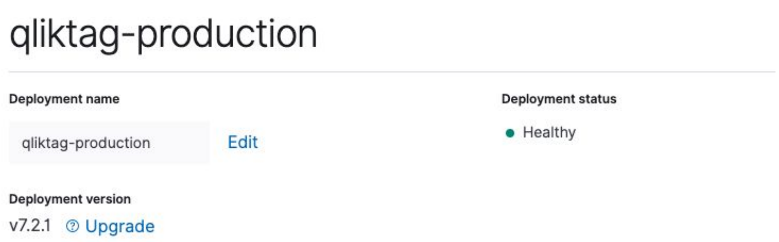
Below are the proof of screen shots for each review item:

SNo #1



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

SNo #2



qliktag-production

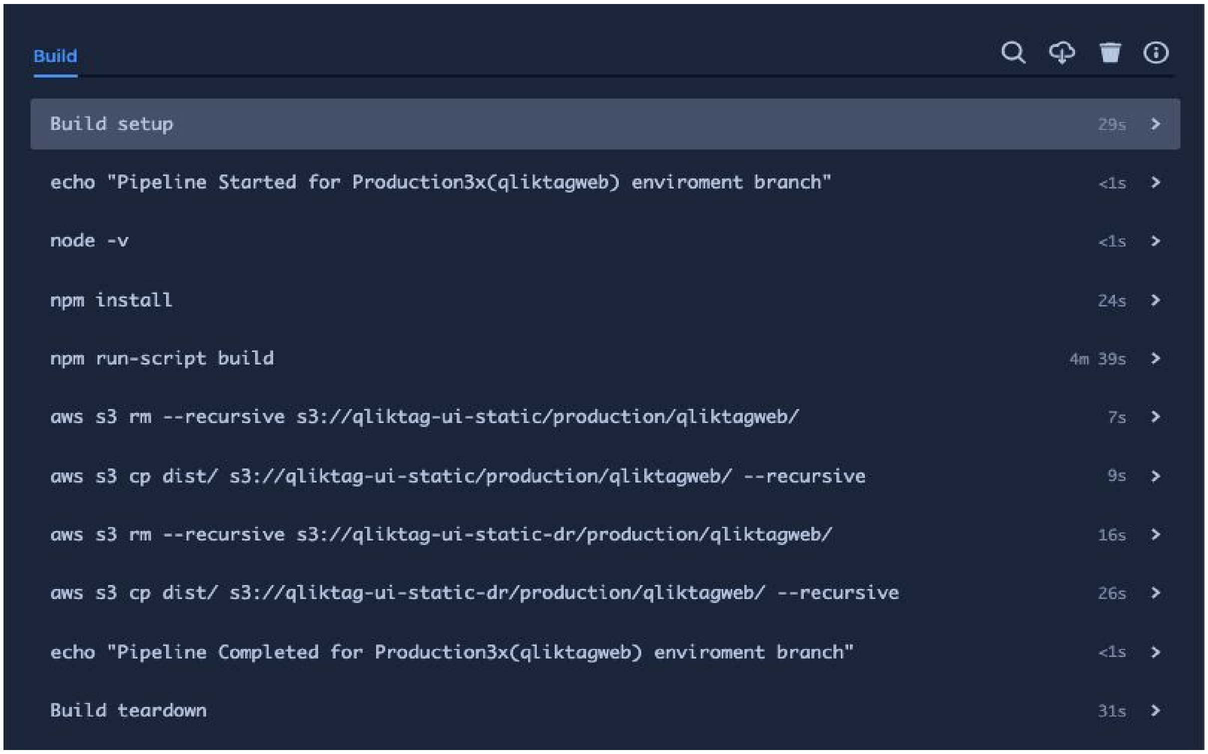
Deployment name
qliktag-production Edit

Deployment status
● Healthy

Deployment version
v7.2.1 Upgrade

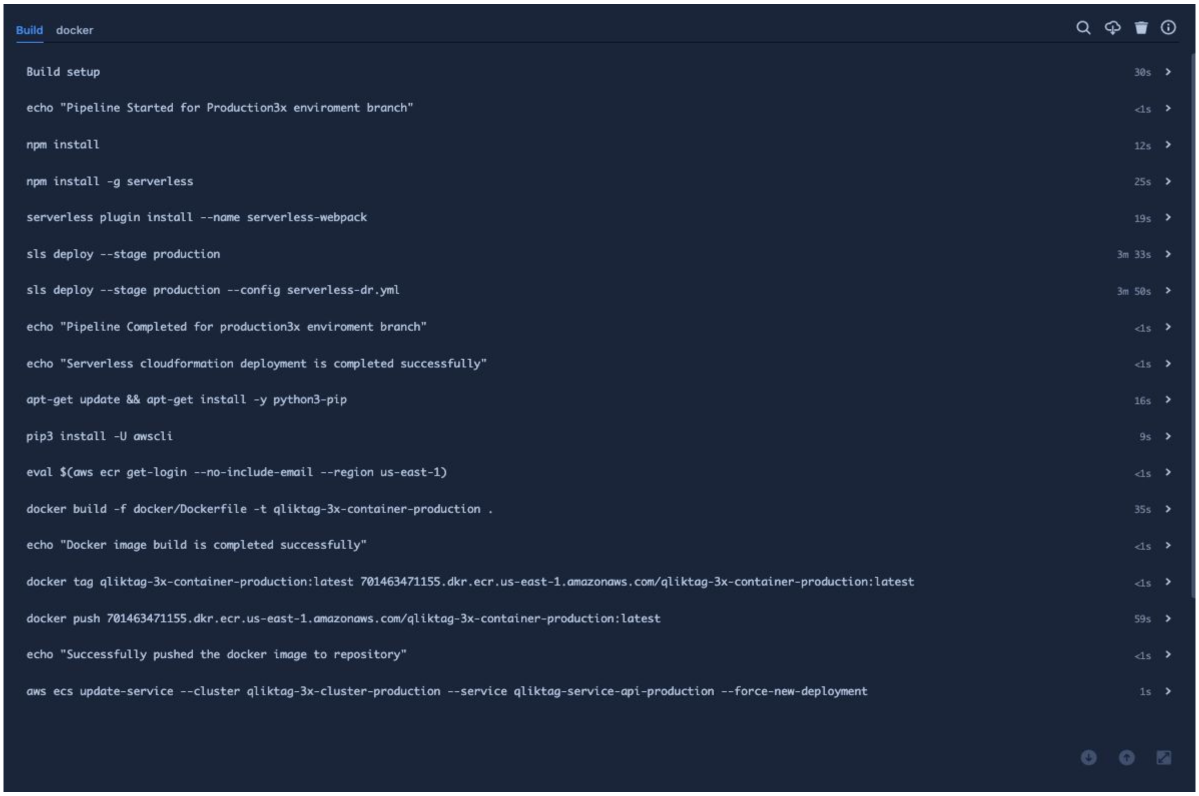
SNo #3

QliktagWeb application deployment



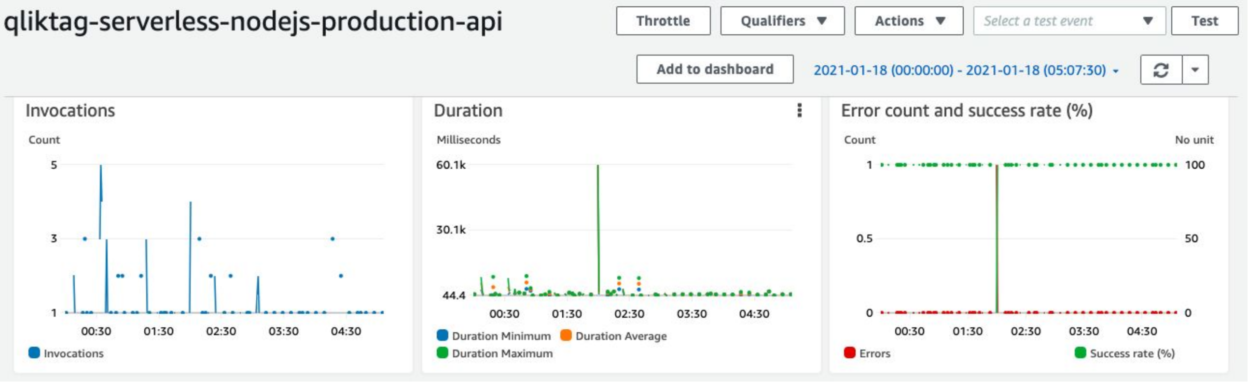
```
Build setup                                                                   29s >
echo "Pipeline Started for Production3x(qliktagweb) enviroment branch"        <1s >
node -v                                                                       <1s >
npm install                                                                   24s >
npm run-script build                                                       4m 39s >
aws s3 rm --recursive s3://qliktag-ui-static/production/qliktagweb/            7s >
aws s3 cp dist/ s3://qliktag-ui-static/production/qliktagweb/ --recursive      9s >
aws s3 rm --recursive s3://qliktag-ui-static-dr/production/qliktagweb/        16s >
aws s3 cp dist/ s3://qliktag-ui-static-dr/production/qliktagweb/ --recursive  26s >
echo "Pipeline Completed for Production3x(qliktagweb) enviroment branch"      <1s >
Build teardown                                                                31s >
```

QliktagAPI application deployment

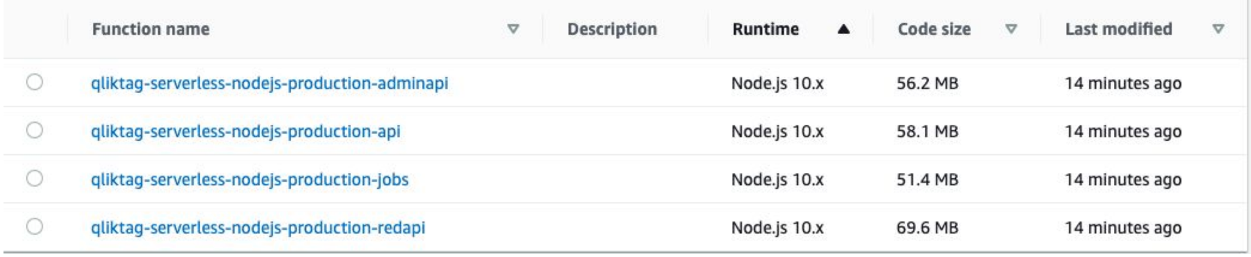


```
Build setup                                                                   30s >
echo "Pipeline Started for Production3x enviroment branch"                    <1s >
npm install                                                                   12s >
npm install -g serverless                                                     25s >
serverless plugin install --name serverless-webpack                           19s >
sls deploy --stage production                                              3m 33s >
sls deploy --stage production --config serverless-dr.yml                   3m 50s >
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                              16s >
pip3 install -U awscli                                                         9s >
eval $(aws ecr get-login --no-include-email --region us-east-1)               <1s >
docker build -f docker/Dockerfile -t qliktag-3x-container-production .        35s >
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-container-production:latest   <1s >
docker push 701463471155.dkr.ecr.us-east-1.amazonaws.com/qliktag-3x-container-production:latest   59s >
echo "Successfully pushed the docker image to repository"                     <1s >
aws ecs update-service --cluster qliktag-3x-cluster-production --service qliktag-service-api-production --force-new-deployment   1s >
```

SNo #4

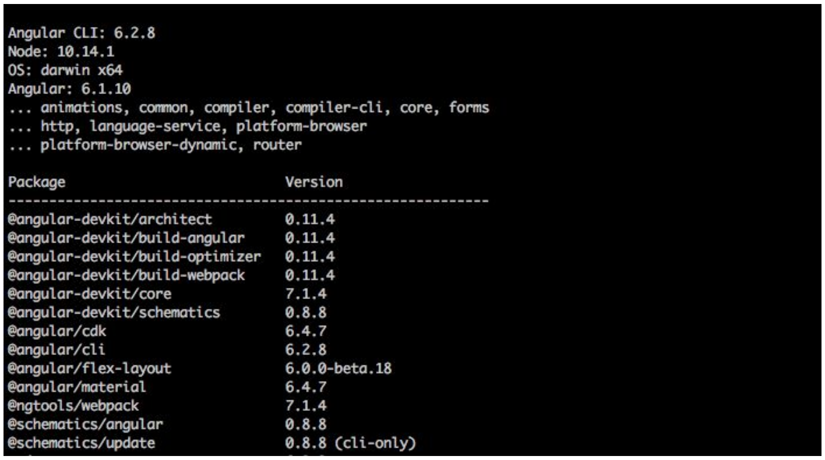


SNo #5



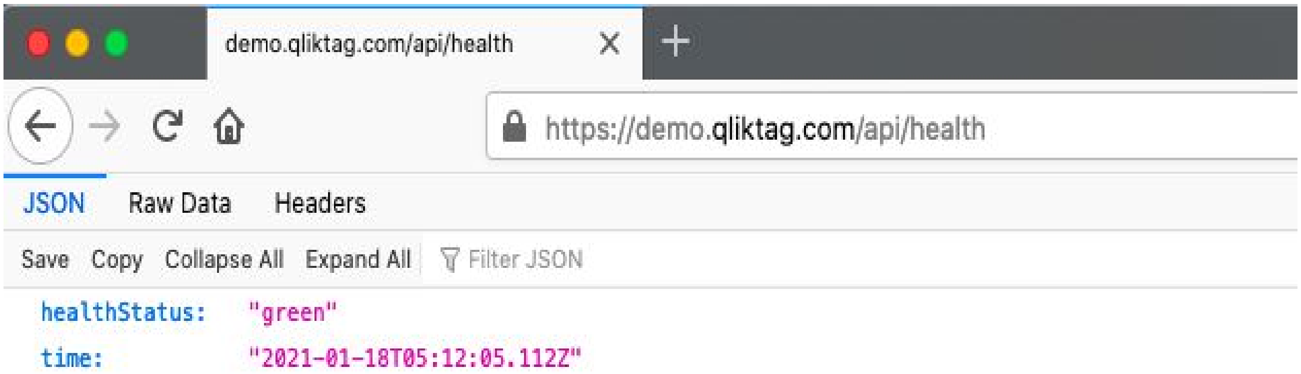
	Function name	Description	Runtime ▲	Code size	Last modified
○	qliktag-serverless-nodejs-production-adminapi		Node.js 10.x	56.2 MB	14 minutes ago
○	qliktag-serverless-nodejs-production-api		Node.js 10.x	58.1 MB	14 minutes ago
○	qliktag-serverless-nodejs-production-jobs		Node.js 10.x	51.4 MB	14 minutes ago
○	qliktag-serverless-nodejs-production-redapi		Node.js 10.x	69.6 MB	14 minutes ago

SNo #6



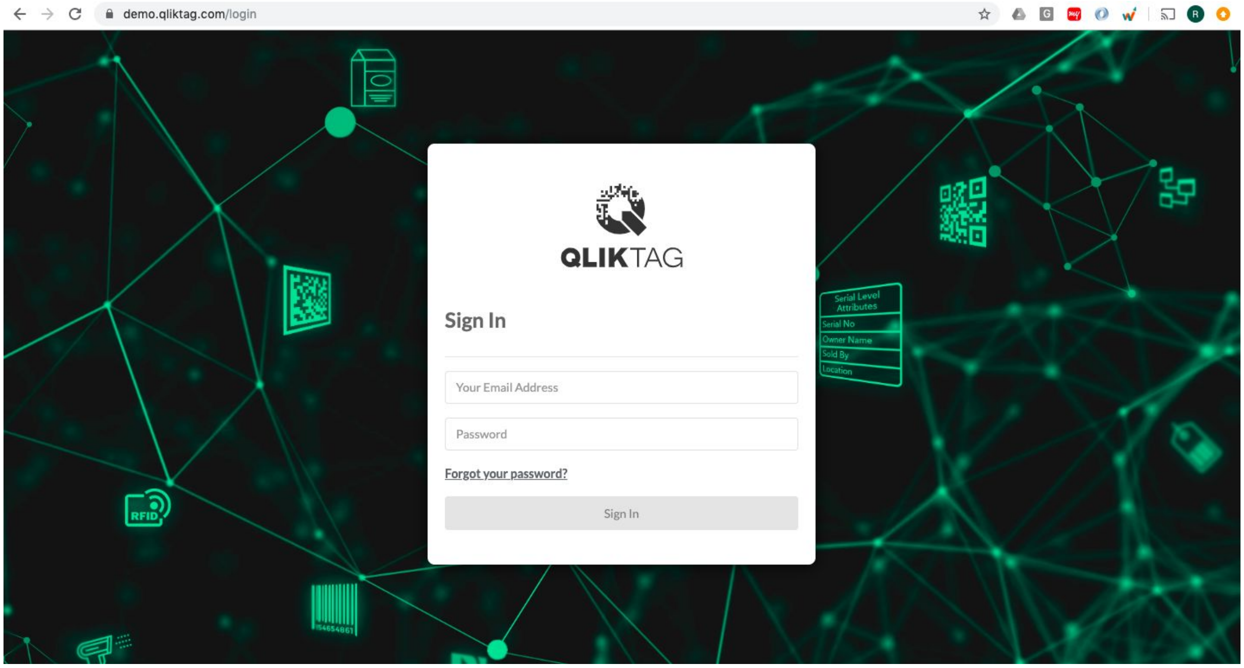
```
Angular CLI: 6.2.8
Node: 10.14.1
OS: darwin x64
Angular: 6.1.10
... animations, common, compiler, compiler-cli, core, forms
... http, language-service, platform-browser
... platform-browser-dynamic, router

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

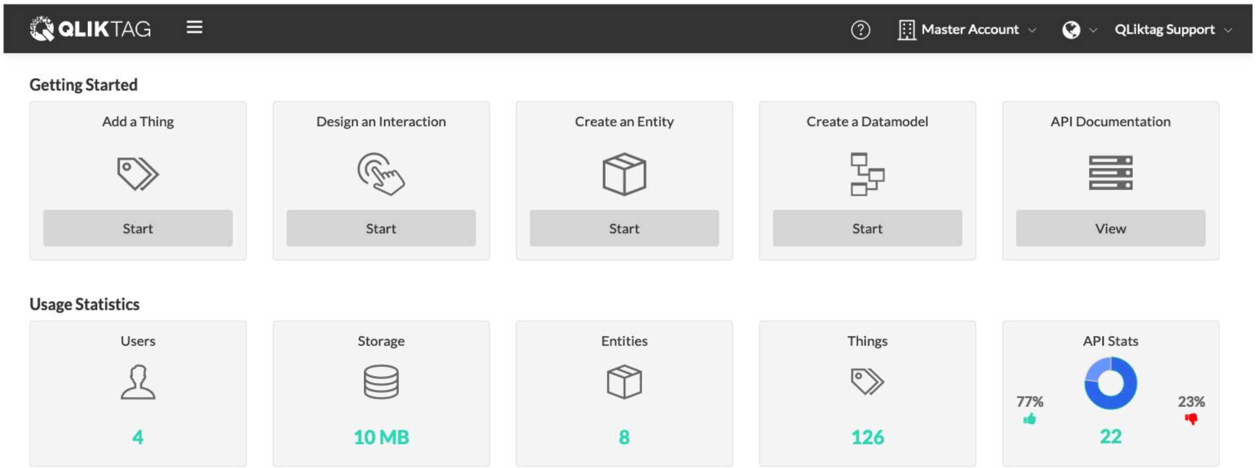

demo.qliktag.com/api/health
https://demo.qliktag.com/api/health
JSON
Raw Data
Headers
Save
Copy
Collapse All
Expand All
Filter JSON

```
healthStatus:   "green"
time:           "2021-01-18T05:12:05.112Z"
```

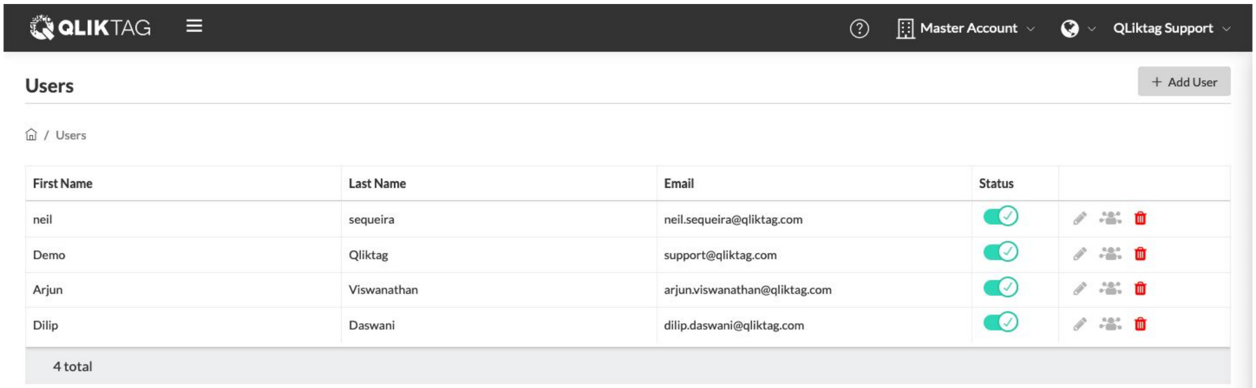
SNo #8



SNo #9



SNo #10



Users

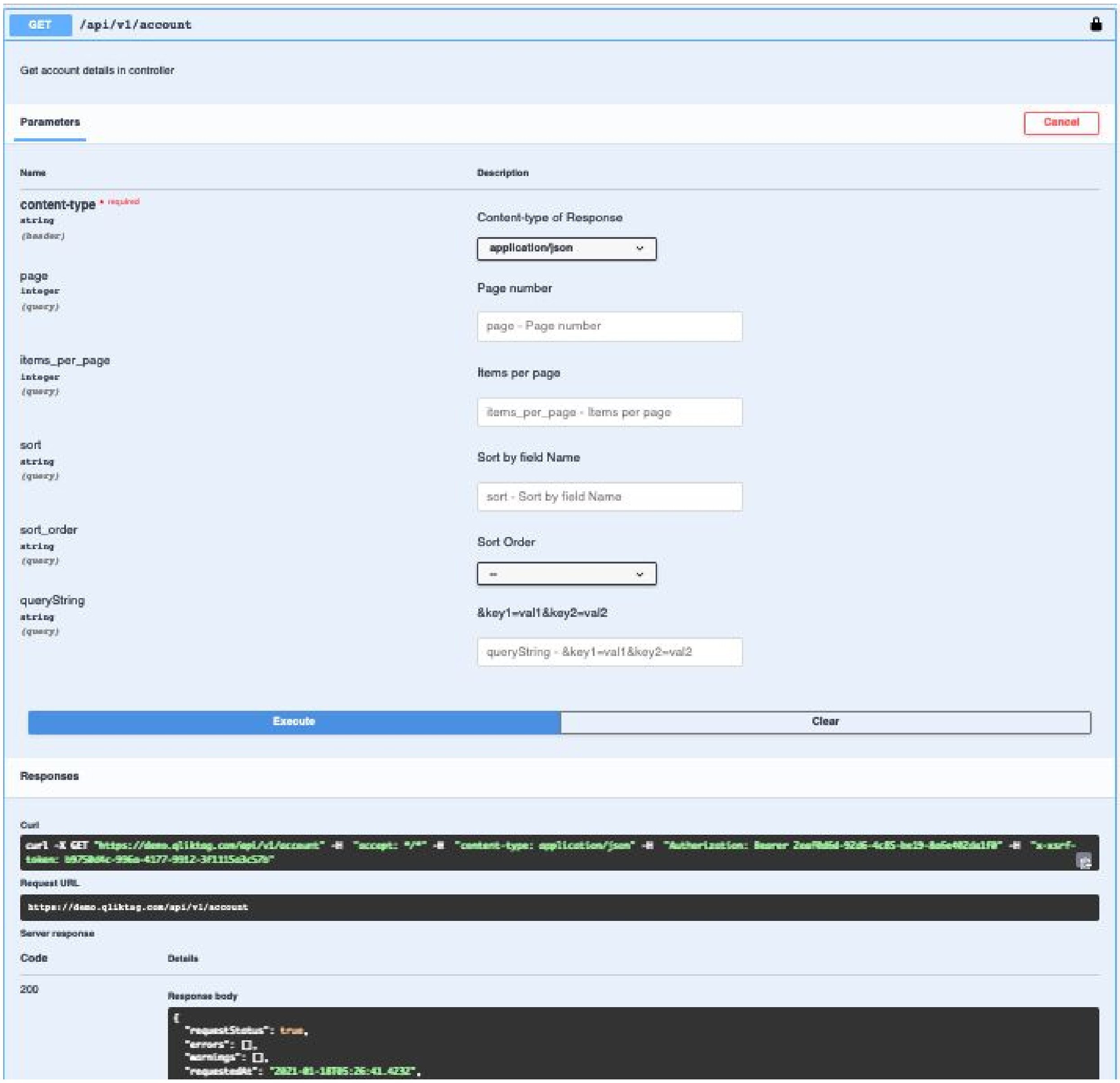
/ Users

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



```
/api/v1/account
```

Get account details in controller

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

Curl

```
curl -X GET "https://demo.qliktag.com/api/v1/account" -H  "accept: */*" -H  "content-type: application/json" -H  "Authorization: Bearer 2eaf0d6d-92d6-4c85-be19-8a6e402da1f0" -H  "x-xsrf-token: b9750d4c-996a-4177-9912-3f1115a3c57b"
```

Request URL

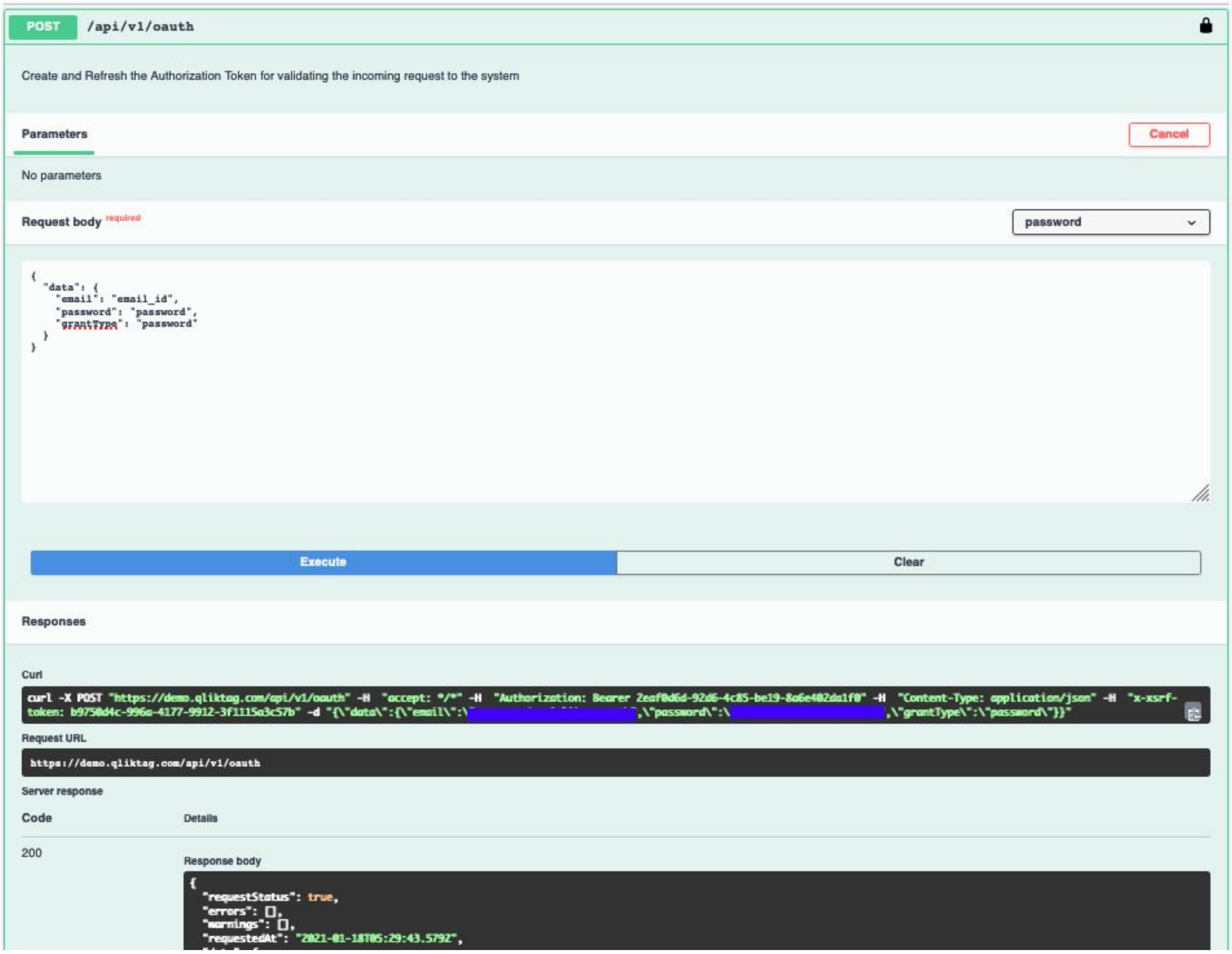
```
https://demo.qliktag.com/api/v1/account
```

Server response

Code	Details
200	Response body

```
{
  "requestStatus": true,
  "errors": [],
  "warnings": [],
  "requestedAt": "2021-01-18T05:26:41.423Z",
```

POST API



`/api/v1/oauth`

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

No parameters

Request body required

```
{
  "data": {
    "email": "email_id",
    "password": "password",
    "grantType": "password"
  }
}
```

Responses

Curl

```
curl -X POST "https://demo.qliktag.com/api/v1/oauth" -H  "accept: */*" -H  "Authorization: Bearer 2eaf0d6d-92d6-4c85-be19-8a6e402da1f0" -H  "Content-Type: application/json" -H  "x-xsrf-token: b9750d4c-996a-4177-9912-3f1115a3c57b" -d "{\"data\":{\"email\":\[redacted],\"password\":\[redacted],\"grantType\":\"password\"}}"
```

Request URL

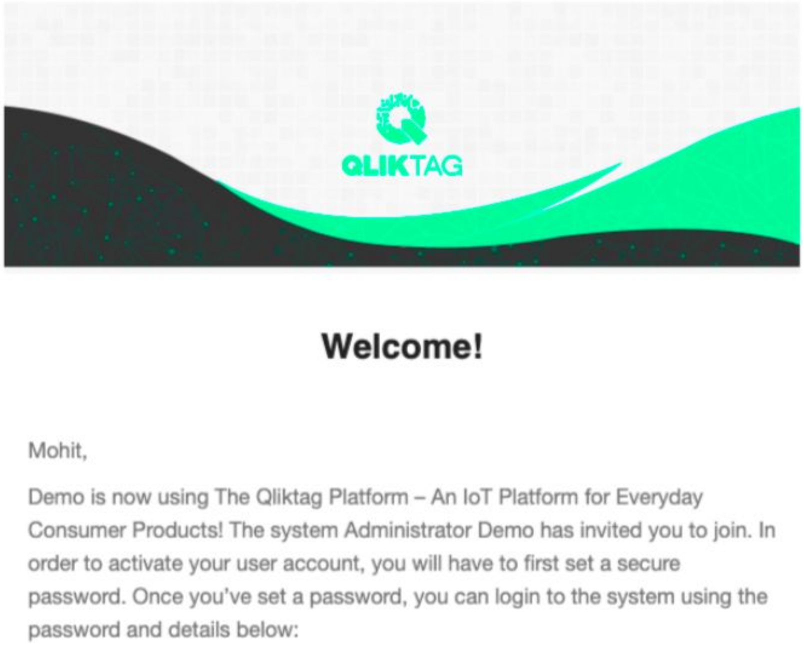
```
https://demo.qliktag.com/api/v1/oauth
```

Server response

Code	Details
200	Response body

```
{
  "requestStatus": true,
  "errors": [],
  "warnings": [],
  "requestedAt": "2021-01-18T05:29:43.579Z",
```

SNo #12

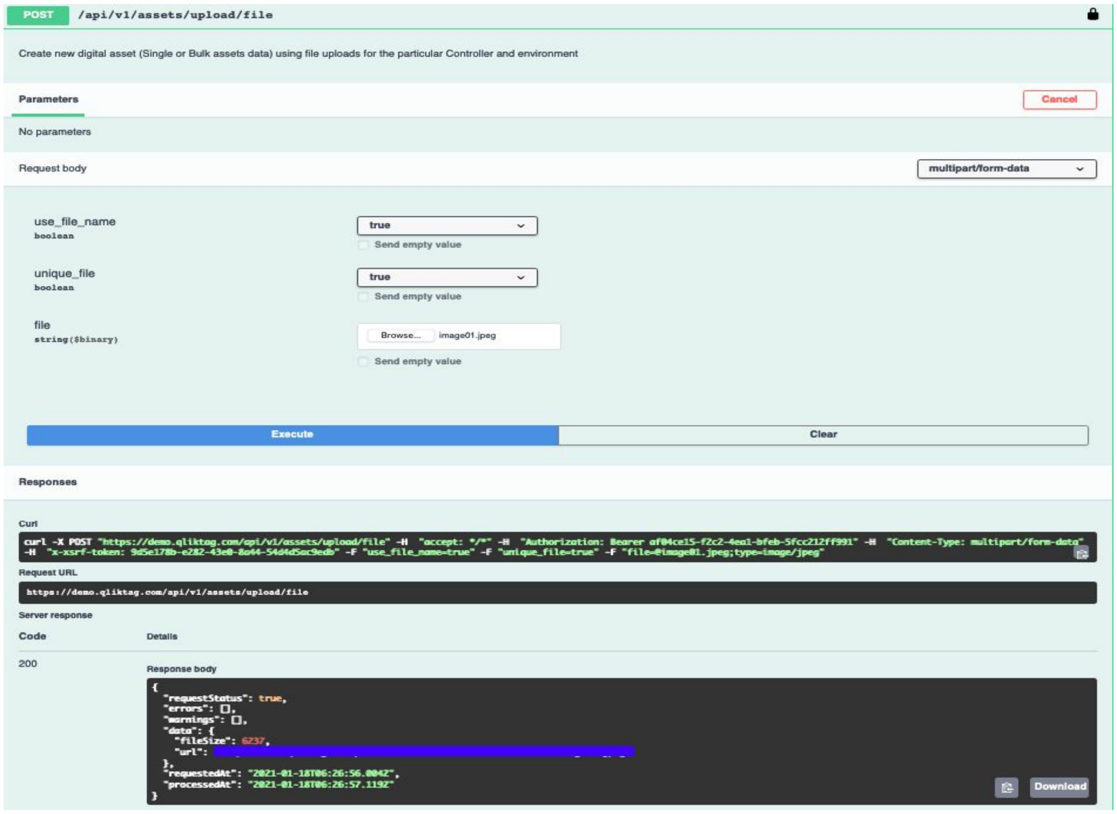


Welcome!

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



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

No parameters

Request body: multipart/form-data

use_file_name (boolean): true
□ Send empty value

unique_file (boolean): true
□ Send empty value

file (string($binary)): image01.jpeg
□ Send empty value

Responses

Curl

```
curl -X POST "https://demo.qliktag.com/api/v1/assets/upload/file" -H  "accept: */*" -H  "Authorization: Bearer af04ce15-f2c2-4ea1-bfeb-5fcc212ff991" -H  "Content-Type: multipart/form-data"
-H  "x-xsrf-token: 9d5e178b-e282-43e0-8a44-54d4d5ac9edb" -F "use_file_name=true" -F "unique_file=true" -F "file=@image01.jpeg;type=image/jpeg"
```

Request URL

```
https://demo.qliktag.com/api/v1/assets/upload/file
```

Server response

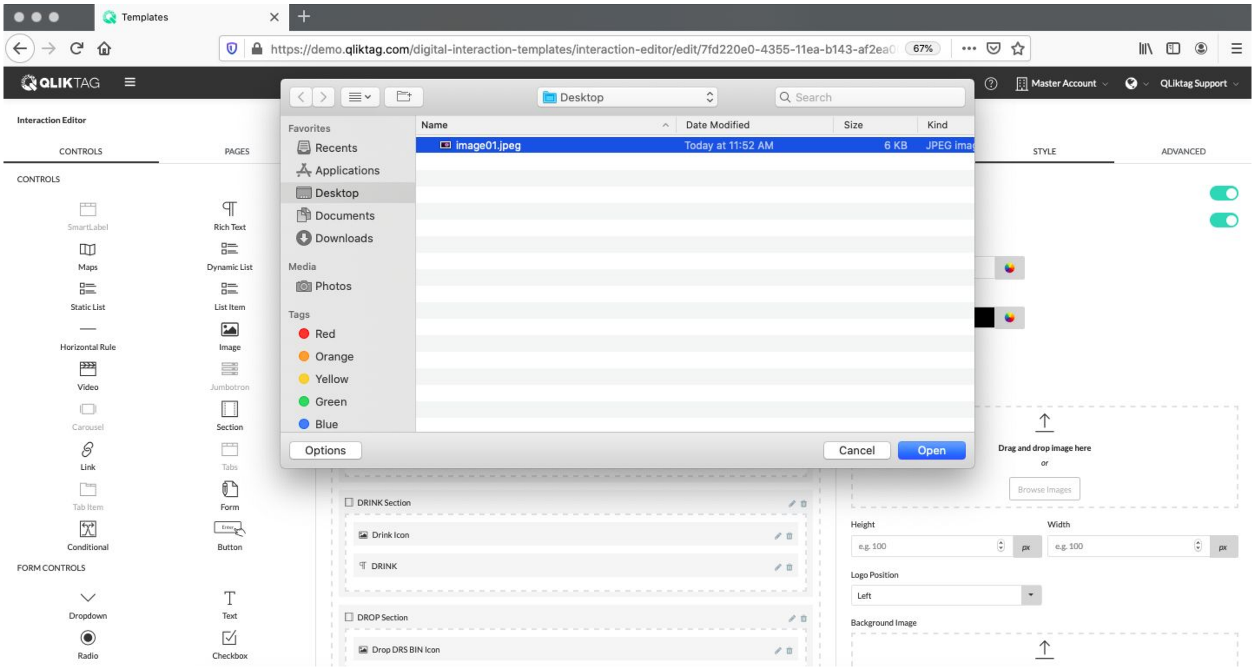
Code: 200

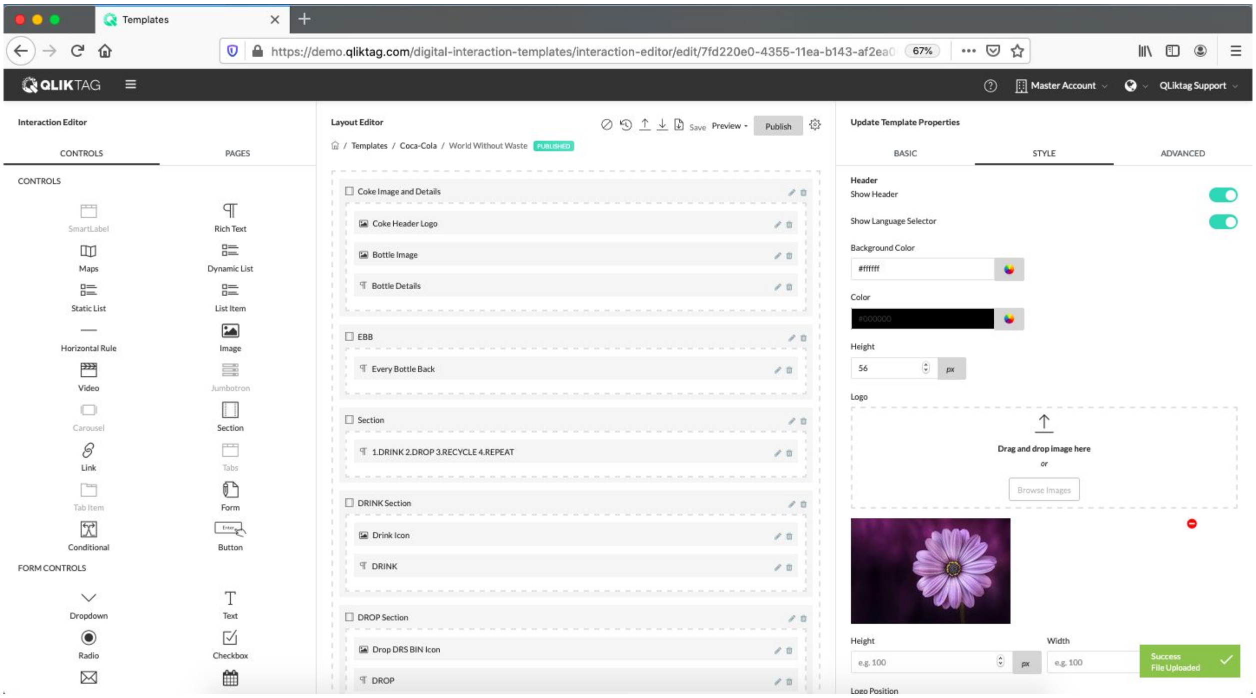
Details

Response body

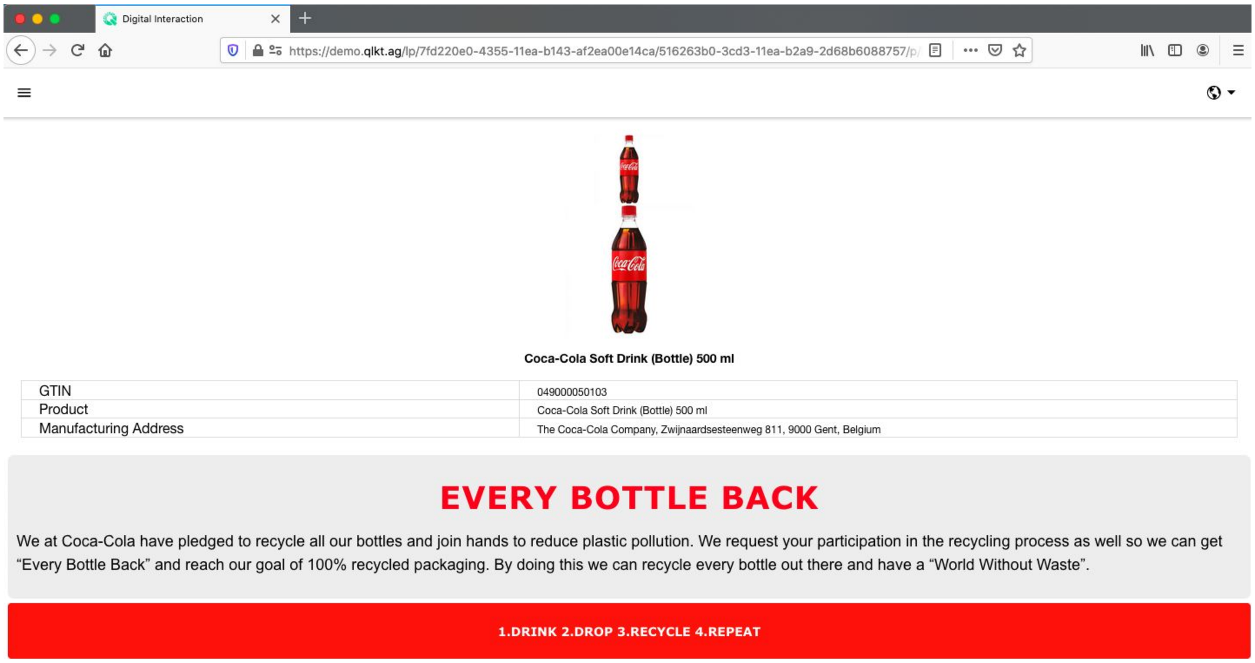
```
{
  "requestStatus": true,
  "errors": [],
  "warnings": [],
  "data": {
    "fileSize": 6237,
    "url": [redacted]
  },
  "requestedAt": "2021-01-18T06:26:56.004Z",
  "processedAt": "2021-01-18T06:26:57.119Z"
}
```

Through UI


Templates
https://demo.qliktag.com/digital-interaction-templates/interaction-editor/edit/7fd220e0-4355-11ea-b143-af2ea0
67%
QLIKTAG
Master Account
QLiktag Support
Interaction Editor
CONTROLS
PAGES
STYLE
ADVANCED
SmartLabel
Rich Text
Maps
Dynamic List
Static List
List Item
Horizontal Rule
Image
Video
Jumbotron
Carousel
Section
Link
Tabs
Tab Item
Form
Conditional
Button
FORM CONTROLS
Dropdown
Text
Radio
Checkbox
Desktop
Search
Favorites
Recents
Applications
Desktop
Documents
Downloads
Media
Photos
Tags
Red
Orange
Yellow
Green
Blue
Name
Date Modified
Size
Kind
image01.jpeg
Today at 11:52 AM
6 KB
JPEG ima
Options
Cancel
Open
DRINK Section
Drink Icon
DRINK
DROP Section
Drop DRS BIN Icon
Drag and drop image here
or
Browse Images
Height
Width
e.g. 100
px
Logo Position
Left
Background Image


Templates
https://demo.qliktag.com/digital-interaction-templates/interaction-editor/edit/7fd220e0-4355-11ea-b143-af2ea0
67%
QLIKTAG
Master Account
QLiktag Support
Interaction Editor
CONTROLS
PAGES
Layout Editor
Save
Preview
Publish
Templates / Coca-Cola / World Without Waste
PUBLISHED
Update Template Properties
BASIC
STYLE
ADVANCED
SmartLabel
Rich Text
Maps
Dynamic List
Static List
List Item
Horizontal Rule
Image
Video
Jumbotron
Carousel
Section
Link
Tabs
Tab Item
Form
Conditional
Button
FORM CONTROLS
Dropdown
Text
Radio
Checkbox
Coke Image and Details
Coke Header Logo
Bottle Image
Bottle Details
EBB
Every Bottle Back
Section
1.DRINK 2.DROP 3.RECYCLE 4.REPEAT
DRINK Section
Drink Icon
DRINK
DROP Section
Drop DRS BIN Icon
DROP
Header
Show Header
Show Language Selector
Background Color
#ffffff
Color
#000000
Height
56
px
Logo
Drag and drop image here
or
Browse Images
Height
Width
e.g. 100
px
Success
File Uploaded
Logo Position

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

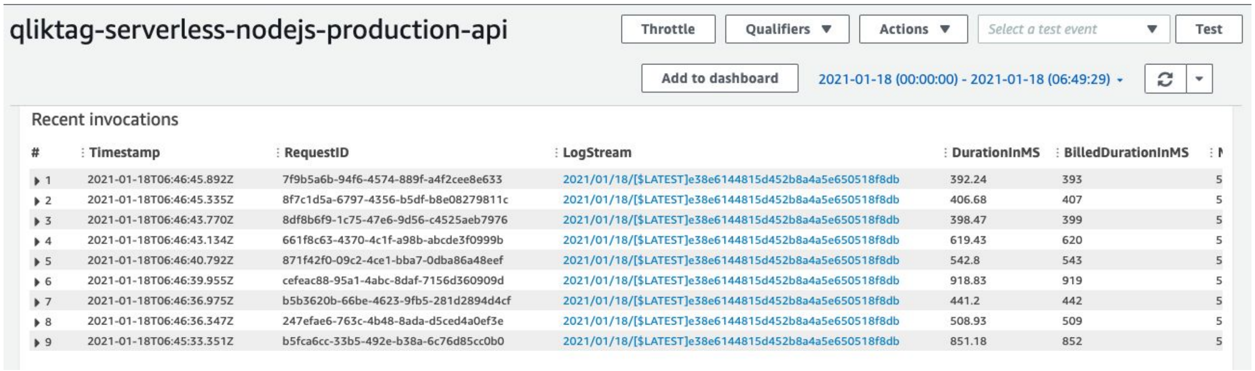
GTIN	049000050103
Product	Coca-Cola Soft Drink (Bottle) 500 ml
Manufacturing Address	The Coca-Cola Company, Zwijnaardsesteenweg 811, 9000 Gent, Belgium

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

2021-01-18 (00:00:00) - 2021-01-18 (06:49:29)

Recent invocations

#	Timestamp	RequestID	LogStream	DurationInMS	BilledDurationInMS	N
▸ 1	2021-01-18T06:46:45.892Z	7f9b5a6b-94f6-4574-889f-a4f2cee8e633	2021/01/18/[$LATEST]e38e6144815d452b8a4a5e650518f8db	392.24	393	5
▸ 2	2021-01-18T06:46:45.335Z	8f7c1d5a-6797-4356-b5df-b8e08279811c	2021/01/18/[$LATEST]e38e6144815d452b8a4a5e650518f8db	406.68	407	5
▸ 3	2021-01-18T06:46:43.770Z	8df8b6f9-1c75-47e6-9d56-c4525aeb7976	2021/01/18/[$LATEST]e38e6144815d452b8a4a5e650518f8db	398.47	399	5
▸ 4	2021-01-18T06:46:43.134Z	661f8c63-4370-4c1f-a98b-abcde3f0999b	2021/01/18/[$LATEST]e38e6144815d452b8a4a5e650518f8db	619.43	620	5
▸ 5	2021-01-18T06:46:40.792Z	871f42f0-09c2-4ce1-bba7-0dba86a48eef	2021/01/18/[$LATEST]e38e6144815d452b8a4a5e650518f8db	542.8	543	5
▸ 6	2021-01-18T06:46:39.955Z	cefeac88-95a1-4abc-8daf-7156d360909d	2021/01/18/[$LATEST]e38e6144815d452b8a4a5e650518f8db	918.83	919	5
▸ 7	2021-01-18T06:46:36.975Z	b5b3620b-66be-4623-9fb5-281d2894d4cf	2021/01/18/[$LATEST]e38e6144815d452b8a4a5e650518f8db	441.2	442	5
▸ 8	2021-01-18T06:46:36.347Z	247efae6-763c-4b48-8ada-d5ced4a0ef3e	2021/01/18/[$LATEST]e38e6144815d452b8a4a5e650518f8db	508.93	509	5
▸ 9	2021-01-18T06:45:33.351Z	b5fca6cc-33b5-492e-b38a-6c76d85cc0b0	2021/01/18/[$LATEST]e38e6144815d452b8a4a5e650518f8db	851.18	852	5

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 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