

Cache Service for Looker wrapper API

End Points:

GET `/_health`

GET `/v4/looks/flush/:lookid(\d+)`

GET `/v4/looks/flushAll`

GET `/v4/looks/:look_id(\d+)/run/:result_format`

GET `/v4/looks`

API Calls for flushing the looks will require admin privileges. Initiating the end points without admin privileges will throw the below error

<http://localhost:3000/v4/looks/flushAll>

```
localhost:3000/v4/looks/flushAll
{"id":"3ea74242-cd8a-485c-8887-7e79ce768864","result":{"success":false,"status":403,"content":{"message":"You do not have permissions to perform this action"}}}
```

```
[2020-01-07T08:17:31.778Z] INFO: tc-lookv3-service/26836 on Appirio-14012: (requestId=3ea74242-cd8a-485c-8887-7e79ce768864)
end request { method: 'GET',
  url: '/v4/looks/flushAll',
  statusCode: 403,
  statusMessage: 'Forbidden',
  duration: 21.607298999999998 }
```

<http://localhost:3000/v4/looks/flush/1695>

```
localhost:3000/v4/looks/flush/1695
{"id":"669cbf64-e7ee-45b2-b482-5e59eda70f7d","result":{"success":false,"status":403,"content":{"message":"You do not have permissions to perform this action"}}}
```

```
[2020-01-07T08:18:28.197Z] INFO: tc-lookv3-service/26836 on Appirio-14012: (requestId=669cbf64-e7ee-45b2-b482-5e59eda70f7d)
end request { method: 'GET',
  url: '/v4/looks/flush/1695',
  statusCode: 403,
  statusMessage: 'Forbidden',
  duration: 4.424599 }
```

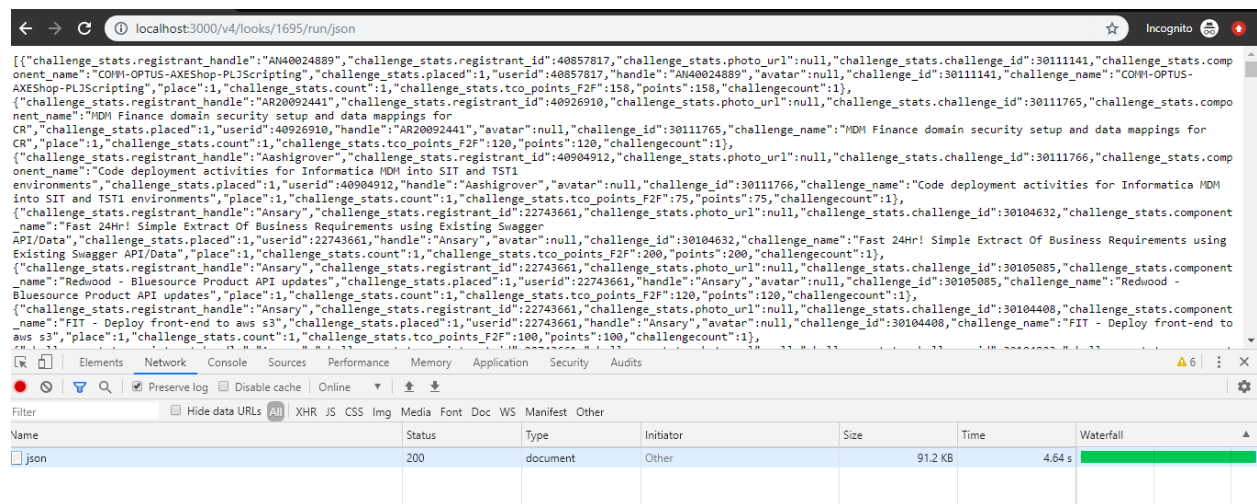
Hit 1:

URL: <http://localhost:3000/v4/looks/1695/run/json>

Result/Observation: The data loads in 4.46 seconds in the first attempt

Snippets:

Browser



Command Line

```
[2020-01-07T07:15:39.007Z] INFO: tc-lookv3-service/7304 on Appirio-14012: start request { method: 'GET', url: '/v4/looks/1695/run/json' } (requestId=85ff8a11-5f16-4ce2-aa2f-0840229161d5)
(node:7304) [DEP0005] DeprecationWarning: Buffer() is deprecated due to security and usability issues. Please use the Buffer.alloc(), Buffer.allocUnsafe(), or Buffer.from() methods instead.
[2020-01-07T07:15:43.634Z] INFO: tc-lookv3-service/7304 on Appirio-14012: (requestId=85ff8a11-5f16-4ce2-aa2f-0840229161d5)
  end request { method: 'GET',
    url: '/v4/looks/1695/run/json',
    statusCode: 200,
    statusMessage: 'OK',
    duration: 4627.101801 }
```

Hit 2:

URL : <http://localhost:3000/v4/looks/1695/run/json>

Result/Observation: The data loads significantly faster (from 4.46 seconds to 10 ms) as its being fetched from cache

Snippet:

Browser

The screenshot shows a web browser window with the URL `localhost:3000/v4/looks/1695/run/json`. The main content area displays a large JSON object. Below the browser window, a network waterfall chart is visible, showing two requests for `json`. The first request has a size of 91.2 KB and a time of 4.64 s. The second request has a size of 91.2 KB and a time of 10 ms. Blue arrows point to the time columns, highlighting the significant reduction in response time for the second request.

Name	Status	Type	Initiator	Size	Time	Waterfall
json	200	document	Other	91.2 KB	4.64 s	
json	200	document	Other	91.2 KB	10 ms	

Command Line

```
[2020-01-07T07:16:16.748Z] INFO: tc-lookv3-service/7304 on Appirio-14012: start request { method: 'GET', url: '/v4/looks/1695/run/json' } (requestId=0a5691ea-1f36-4202-8db4-57978ffd5582)
0 : ttl not expired
from cache
[2020-01-07T07:16:16.751Z] INFO: tc-lookv3-service/7304 on Appirio-14012: (requestId=0a5691ea-1f36-4202-8db4-57978ffd5582)
end request { method: 'GET',
url: '/v4/looks/1695/run/json',
statusCode: 200,
statusMessage: 'OK',
duration: 3.3830009999999997 }
```

Hit 3:

URL: <http://localhost:3000/v4/looks/1695/run/json>

Result/Observation: Since the hit is done post cache time to live expires, it updates the cache in backend with new ttl and returns the data on the console. On command line, we can see that once the ttl has expired, the array has been updated with the new ttl

Snippet:

Browser

The screenshot shows a web browser at the URL `localhost:3000/v4/looks/1695/run/json`. The page displays a large JSON array of challenge statistics. Below the JSON, the browser's developer tools are open to the Network tab, showing a log of requests. The log table has columns for Name, Status, Type, Initiator, Size, Time, and Waterfall. Three requests are listed, all with a status of 200 and a type of document.

Name	Status	Type	Initiator	Size	Time	Waterfall
json	200	document	Other	91.2 KB	4.64 s	
json	200	document	Other	91.2 KB	10 ms	
json	200	document	Other	91.2 KB	2.82 s	

Command line

```
[2020-01-07T07:23:07.359Z] INFO: tc-lookv3-service/23448 on Appirio-14012: start request { method: 'GET', url: '/v4/looks/1695/run/json' } (requestId=170c3a95-ea54-4f91-a859-c837931e1dba)
ttl expired
Updated array
[2020-01-07T07:23:09.989Z] INFO: tc-lookv3-service/23448 on Appirio-14012: (requestId=170c3a95-ea54-4f91-a859-c837931e1dba)
  end request { method: 'GET',
    url: '/v4/looks/1695/run/json',
    statusCode: 200,
    statusMessage: 'OK',
    duration: 2630.3736989999998 }
```

Hit 4:

URL: <http://localhost:3000/v4/looks/1695/run/json>

Result/Observation: Since the array has been updated and ttl is now updated, we will be fetching the data from the cache only until the new ttl expires.

Snippet:

Browser

The screenshot shows a web browser window with the address bar displaying `localhost:3000/v4/looks/1695/run/json`. The main content area displays a large JSON object. Below the JSON, the browser's developer tools are open to the Network tab, showing a list of network requests. The first request is selected, and its details are visible in the right pane.

Name	Status	Type	Initiator	Size	Time	Waterfall
json	200	document	Other	91.2 KB	2.75 s	
json	200	document	Other	91.2 KB	5 ms	
json	200	document	Other	91.2 KB	3.37 s	
json	200	document	Other	91.2 KB	5 ms	

Command line

```
[2020-01-07T07:27:17.992Z] INFO: tc-lookv3-service/27180 on Appirio-14012: start request { method: 'GET', url: '/v4/looks/1695/run/json' } (requestId=d5a2a3e4-29e6-4ce9-af12-3d5b8d980681)
0 : ttl not expired
from cache
[2020-01-07T07:27:17.995Z] INFO: tc-lookv3-service/27180 on Appirio-14012: (requestId=d5a2a3e4-29e6-4ce9-af12-3d5b8d980681)
end request { method: 'GET',
  url: '/v4/looks/1695/run/json',
  statusCode: 200,
  statusMessage: 'OK',
  duration: 2.070901 }
```

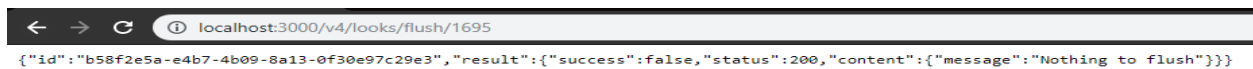
Hit 5: Flushing Specific Look

URL: <http://localhost:3000/v4/looks/flush/1695>

Result/Observation: The cache for the look has been flushed successfully i.e. the ttl for the entry is set to null so that the next call will fetch the data from the server only. If we hit the URL again, since its been flushed, it will show that there is nothing to flush in the array.

Snippet:

Browser



Command Line

```
[2020-01-07T07:29:27.392Z] INFO: tc-lookv3-service/27180 on Appirio-14012: start request { method: 'GET', url: '/v4/looks/flush/1695' } (requestId=7a9c17b5-9975-4331-b6ed-e1732d36e3f8)
[2020-01-07T07:29:27.394Z] INFO: tc-lookv3-service/27180 on Appirio-14012: (requestId=7a9c17b5-9975-4331-b6ed-e1732d36e3f8)
  end request { method: 'GET',
    url: '/v4/looks/flush/1695',
    statusCode: 200,
    statusMessage: 'OK',
    duration: 1.6753 }
```

```
[2020-01-07T07:32:55.432Z] INFO: tc-lookv3-service/27180 on Appirio-14012: start request { method: 'GET', url: '/v4/looks/flush/1695' } (requestId=b58f2e5a-e4b7-4b09-8a13-0f30e97c29e3)
[2020-01-07T07:32:55.433Z] ERROR: tc-lookv3-service/27180 on Appirio-14012: (requestId=b58f2e5a-e4b7-4b09-8a13-0f30e97c29e3, message="Nothing to flush", status=200)
[2020-01-07T07:32:55.439Z] INFO: tc-lookv3-service/27180 on Appirio-14012: (requestId=b58f2e5a-e4b7-4b09-8a13-0f30e97c29e3)
  end request { method: 'GET',
    url: '/v4/looks/flush/1695',
    statusCode: 200,
    statusMessage: 'OK',
    duration: 6.7314 }
```

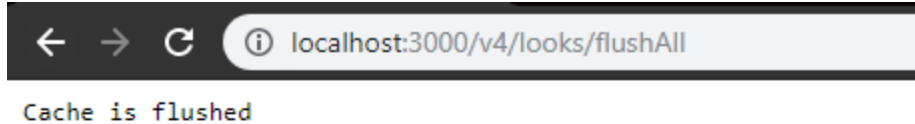
Hit 6

URL: <http://localhost:3000/v4/looks/flushAll>

Result: The end points results in flushing the array which stores the cache and hence any call post flushAll will result in new data being fetched straight from the server

Snippet:

Browser



Command Line

```
[2020-01-07T08:11:08.950Z] INFO: tc-lookv3-service/27180 on Appirio-14012: start request { method: 'GET', url: '/v4/looks/flushAll' } (requestId=42e11bdc-7f55-4496-b5a5-b92853d01a89)
[2020-01-07T08:11:08.951Z] INFO: tc-lookv3-service/27180 on Appirio-14012: (requestId=42e11bdc-7f55-4496-b5a5-b92853d01a89)
  end request { method: 'GET',
    url: '/v4/looks/flushAll',
    statusCode: 200,
    statusMessage: 'OK',
    duration: 0.9498 }
```