**Deliverable 1**

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**Deliverable 2**

\* About to connect() to localhost port 5000 (#0)

\* Trying 127.0.0.1...

\* Connected to localhost (127.0.0.1) port 5000 (#0)

> GET /data HTTP/1.1

> User-Agent: curl/7.29.0

> Host: localhost:5000

> Accept: \*/\*

>

\* HTTP 1.0, assume close after body

< HTTP/1.0 200 OK

HTTP/1.0 200 OK

< Content-Type: application/json

Content-Type: application/json

< Content-Length: 1019

Content-Length: 1019

< X-Total-Count: 3

X-Total-Count: 3

< Last-Modified: Thu, 03 Nov 2016 22:38:51 GMT

Last-Modified: Thu, 03 Nov 2016 22:38:51 GMT

< Server: Eve/0.6.4 Werkzeug/0.11.3 Python/2.7.5

Server: Eve/0.6.4 Werkzeug/0.11.3 Python/2.7.5

< Date: Thu, 03 Nov 2016 22:41:39 GMT

Date: Thu, 03 Nov 2016 22:41:39 GMT

<

\* Closing connection 0

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**Deliverable 3**

GET /data HTTP/1.1

Host: localhost:5000

HTTP/1.0 200 OK

Content-Type: application/json

Content-Length: 7835

X-Total-Count: 37

Last-Modified: Mon, 31 Oct 2016 15:14:38 GMT

Server: Eve/0.6.4 Werkzeug/0.11.3 Python/2.7.5

Date: Thu, 03 Nov 2016 21:35:17 GMT

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page"}}, "\_meta": {"max\_results": 25, "total": 37, "page": 1}}Connection closed by foreign host.

**Deliverable 4**

The output is the same. They're querying the same server.

**Deliverable 5**

curl -d '[{"lat": 42.52, "long": 71.233, "temp": 30.4}]' -H 'content-type: application/json' http://localhost:5000/data

**Deliverable 6**

curl -i <http://localhost:5000/data/581bbaf0eb1d4d0909abbf2e>

**Deliverable 7**

curl -H "IF-MATCH: 5979c3ea010a1bf368ea638b49d77adc33e220f3" -i http://localhost:5000/data/581bbaf0eb1d4d0909abbf2e -d 'temp=8.8' --request PATCH

**Deliverable 8**

var http = require('http');

var options = {

host: 'localhost:5000',

path: '/data'

};

callback = function(response) {

var str = '';

response.on('data', function (chunk) {

str += chunk;

});

response.on('end', function () {

console.log(str);

});

}

// http request is quite ugly tbh.

http.request(options, callback).end();

**Deliverable 9**

{"\_items": [{"\_updated": "Thu, 03 Nov 2016 22:26:24 GMT", "temp": 50.1, "\_links": {"self": {"href": "data/581bb990eb1d4d0909abbf2d", "title": "datum"}}, "\_created": "Thu, 03 Nov 2016 22:26:24 GMT", "\_id": "581bb990eb1d4d0909abbf2d", "\_etag": "30501082ee8c120435af4b0a00a767a87fc3380c"}, {"\_updated": "Thu, 03 Nov 2016 22:56:28 GMT", "temp": 8.8, "long": 71.233, "\_links": {"self": {"href": "data/581bbaf0eb1d4d0909abbf2e", "title": "datum"}}, "lat": 42.52, "\_created": "Thu, 03 Nov 2016 22:32:16 GMT", "\_id": "581bbaf0eb1d4d0909abbf2e", "\_etag": "8bc0d312b58cd84493a870c1eee995681f38f69c"}, {"\_updated": "Thu, 03 Nov 2016 22:38:51 GMT", "long": 71.233, "\_links": {"self": {"href": "data/581bbc7beb1d4d0909abbf2f", "title": "datum"}}, "\_created": "Thu, 03 Nov 2016 22:38:51 GMT", "\_id": "581bbc7beb1d4d0909abbf2f", "\_etag": "e8821bb678805558de2e44eb7a9332bdbbe58c5f"}, {"\_updated": "Fri, 04 Nov 2016 02:03:39 GMT", "temp": 30.4, "long": 71.233, "\_links": {"self": {"href": "data/581bec7beb1d4d0909abbf30", "title": "datum"}}, "lat": 42.52, "\_created": "Fri, 04 Nov 2016 02:03:39 GMT", "\_id": "581bec7beb1d4d0909abbf30", "\_etag": "b9708de6f7a5c3e1128122963b21f53fbfa2b639"}, {"\_updated": "Fri, 04 Nov 2016 02:03:46 GMT", "temp": 30.4, "long": 71.233, "\_links": {"self": {"href": "data/581bec82eb1d4d0909abbf31", "title": "datum"}}, "lat": 42.52, "\_created": "Fri, 04 Nov 2016 02:03:46 GMT", "\_id": "581bec82eb1d4d0909abbf31", "\_etag": "a6ac96ab297010c98edbdd598eacef04c99108ce"}, {"\_updated": "Fri, 04 Nov 2016 02:16:24 GMT", "temp": 13.37, "long": 8.16, "\_links": {"self": {"href": "data/581bef78eb1d4d0909abbf32", "title": "datum"}}, "lat": 10.23, "\_created": "Fri, 04 Nov 2016 02:16:24 GMT", "\_id": "581bef78eb1d4d0909abbf32", "\_etag": "b5ffc4bd55b47b1853c059222d0bff7a6ee9d012"}, {"\_updated": "Fri, 04 Nov 2016 02:53:32 GMT", "temp": 13.37, "long": 8.16, "\_links": {"self": {"href": "data/581bf82deb1d4d0909abbf33", "title": "datum"}}, "lat": 10.23, "\_created": "Fri, 04 Nov 2016 02:53:32 GMT", "\_id": "581bf82deb1d4d0909abbf33", "\_etag": "92226d7213d3bc960dea723d7e1a39e56e9cdec5"}, {"\_updated": "Fri, 04 Nov 2016 03:44:33 GMT", "temp": 30.4, "long": 71.233, "\_links": {"self": {"href": "data/581c0421eb1d4d0909abbf34", "title": "datum"}}, "lat": 42.52, "\_created": "Fri, 04 Nov 2016 03:44:33 GMT", "\_id": "581c0421eb1d4d0909abbf34", "\_etag": "6d0edc6be398814d62eccfdd7c69c43a4f630f9b"}, {"\_updated": "Fri, 04 Nov 2016 05:19:30 GMT", "temp": 0.0, "\_links": {"self": {"href": "data/581c047feb1d4d0909abbf35", "title": "datum"}}, "\_created": "Fri, 04 Nov 2016 03:46:07 GMT", "\_id": "581c047feb1d4d0909abbf35", "\_etag": "c86173883d32f1a35a0631c25baba56a6b653eee"}, {"\_updated": "Fri, 04 Nov 2016 05:23:35 GMT", "\_links": {"self": {"href": "data/581c0489eb1d4d0909abbf36", "title": "datum"}}, "lat": 99.99, "\_created": "Fri, 04 Nov 2016 03:46:17 GMT", "\_id": "581c0489eb1d4d0909abbf36", "\_etag": "b006395d10b68a243c307dad6ac5a2e7b086a6bc"}, {"\_updated": "Fri, 04 Nov 2016 04:14:36 GMT", "long": 0.0, "\_links": {"self": {"href": "data/581c0b2ceb1d4d0909abbf37", "title": "datum"}}, "\_created": "Fri, 04 Nov 2016 04:14:36 GMT", "\_id": "581c0b2ceb1d4d0909abbf37", "\_etag": "66639cf029c16893b88589b55b43000c3094a7d6"}, {"\_updated": "Fri, 04 Nov 2016 04:14:46 GMT", "long": 0.0, "\_links": {"self": {"href": "data/581c0b36eb1d4d0909abbf38", "title": "datum"}}, "\_created": "Fri, 04 Nov 2016 04:14:46 GMT", "\_id": "581c0b36eb1d4d0909abbf38", "\_etag": "238c043aa59ec5b03a4e6f6928ce1854a1f69169"}, {"\_updated": "Fri, 04 Nov 2016 04:14:53 GMT", "long": 0.0, "\_links": {"self": {"href": "data/581c0b3deb1d4d0909abbf39", "title": "datum"}}, "\_created": "Fri, 04 Nov 2016 04:14:53 GMT", "\_id": "581c0b3deb1d4d0909abbf39", "\_etag": "3c342a82c06b65ec158b89c63a26bded48f16931"}, {"\_updated": "Fri, 04 Nov 2016 04:16:16 GMT", "long": 0.0, "\_links": {"self": {"href": 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"581ca351eb1d4d0909abbf3d", "\_etag": "37bd767da79a1057f0207d9ed6d5a3faa0dd6cc7"}, {"\_updated": "Fri, 04 Nov 2016 15:31:34 GMT", "temp": 421.0, "\_links": {"self": {"href": "data/581ca7c2eb1d4d0909abbf3e", "title": "datum"}}, "\_created": "Fri, 04 Nov 2016 15:22:42 GMT", "\_id": "581ca7c2eb1d4d0909abbf3e", "\_etag": "733a9d26383234cb98c74603b2a5cecedb807957"}, {"\_updated": "Fri, 04 Nov 2016 15:48:17 GMT", "temp": 11.0, "long": 12.0, "\_links": {"self": {"href": "data/581caa33eb1d4d0909abbf3f", "title": "datum"}}, "lat": 12.0, "\_created": "Fri, 04 Nov 2016 15:33:07 GMT", "\_id": "581caa33eb1d4d0909abbf3f", "\_etag": "671cf1ca4c15d03e9bc80664fe731182d8a9cddb"}, {"\_updated": "Fri, 04 Nov 2016 16:58:19 GMT", "temp": 30.4, "long": 30.112, "\_links": {"self": {"href": "data/581cbe2beb1d4d0909abbf40", "title": "datum"}}, "lat": 81.52, "\_created": "Fri, 04 Nov 2016 16:58:19 GMT", "\_id": "581cbe2beb1d4d0909abbf40", "\_etag": "baaa4f55df62e6967c2aa362445d41c94dd78f77"}, {"\_updated": "Fri, 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**Deliverable 10**

jkoh01, your ports are 9300-9319

PLEASE BE SURE TO WORK ONLY ON iot-dev. THANKS!

**Deliverable 11**

var request = require('request');

var express = require('express');

var app = express();

// at my port

app.listen(9300);

app.get('/', function (req, res) {

res.send('hello')

})

**Deliverable 12**

var express = require('express');

var Promise = require('bluebird');

var app = express();

var request = Promise.promisify(require('request'));

var AsciiTable = require('ascii-table')

var table\_ify = function(json) {

var rows = []

items = json.\_items;

var entry = items.map(function (entry) {

var link\_entry = entry.\_links.self.href + ' (' + entry.\_links.self.title + ')'

return [entry.\_updated, entry.temp, entry.long, link\_entry, entry.lat, entry.\_created, entry.\_id, entry.\_etag]

});

var table = new AsciiTable().fromJSON({

title: 'Get Response'

, heading: [ 'updated', 'temp', 'long', 'links', 'lat', 'created', 'id', 'etag' ]

, rows: entry

})

return(table.toString())

}

var eve\_server = {

url: 'http://localhost:5000/data',

method: 'GET',

}

// at my port

app.listen(9300);

app.get('/', function (req, res, next) {

request(eve\_server)

.then(function(json) {

return(JSON.parse(json.body))

})

.then(table\_ify)

.then(function(data) {

res.send(data);

})

.catch(next) //good old habits

})

// error handling just in case

app.use(function (err, req, res, next) {

console.log("Ooops something went wrong");

console.log(err);

})

**Deliverable 13**

var express = require('express');

var Promise = require('bluebird');

var app = express();

var request = Promise.promisify(require('request'));

var AsciiTable = require('ascii-table')

var html\_table\_ify = function(json) {

items = json.\_items;

var entries = items.map(function (entry) {

var row = '<tr><td>' + (entry.lat || '-') + '</td><td>' + (entry.long || '-') + '</td><td>' + (entry.temp || '-') + '</td></tr>';

return row;

});

var body = '<html><body><table border=1><tr><th>latitude</th><th>longitude</th><th>temperature</th></tr>'

// quick hack, bad code

for (var i = entries.length - 1; i >= 0; i--) {

body += entries[i];

}

body += '</table></body></html>'

return(body)

}

var eve\_server = {

url: 'http://localhost:5000/data',

method: 'GET',

}

// at my port

app.listen(9300);

app.get('/', function (req, res, next) {

request(eve\_server)

.then(function(json) {

return(JSON.parse(json.body))

})

.then(html\_table\_ify)

.then(function(data) {

res.send(data);

})

.catch(next) //good old habits

})

// error handling just in case

app.use(function (err, req, res, next) {

console.log("Ooops something went wrong");

console.log(err);

})

**Deliverable 14**

<html><body><table border=1><tr><th>latitude</th><th>longitude</th><th>temperature</th></tr><tr><td>56.9496</td><td>-24.1052</td><td>29</td></tr><tr><td>81.52</td><td>30.112</td><td>30.4</td></tr><tr><td>1</td><td>1</td><td>1</td></tr><tr><td>20</td><td>30</td><td>75</td></tr><tr><td>12</td><td>12</td><td>11</td></tr><tr><td>81.52</td><td>30.112</td><td>30.4</td></tr><tr><td>12</td><td>12</td><td>11</td></tr><tr><td>-</td><td>-</td><td>421</td></tr><tr><td>-</td><td>-</td><td>42.3</td></tr><tr><td>22.396</td><td>114.109</td><td>69</td></tr><tr><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td></tr><tr><td>99.99</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td></tr><tr><td>42.52</td><td>71.233</td><td>30.4</td></tr><tr><td>10.23</td><td>8.16</td><td>13.37</td></tr><tr><td>10.23</td><td>8.16</td><td>13.37</td></tr><tr><td>42.52</td><td>71.233</td><td>30.4</td></tr><tr><td>42.52</td><td>71.233</td><td>30.4</td></tr><tr><td>-</td><td>71.233</td><td>-</td></tr><tr><td>42.52</td><td>71.233</td><td>8.8</td></tr><tr><td>-</td><td>-</td><td>50.1</td></tr></table></body></html>