

Hackathon Udine



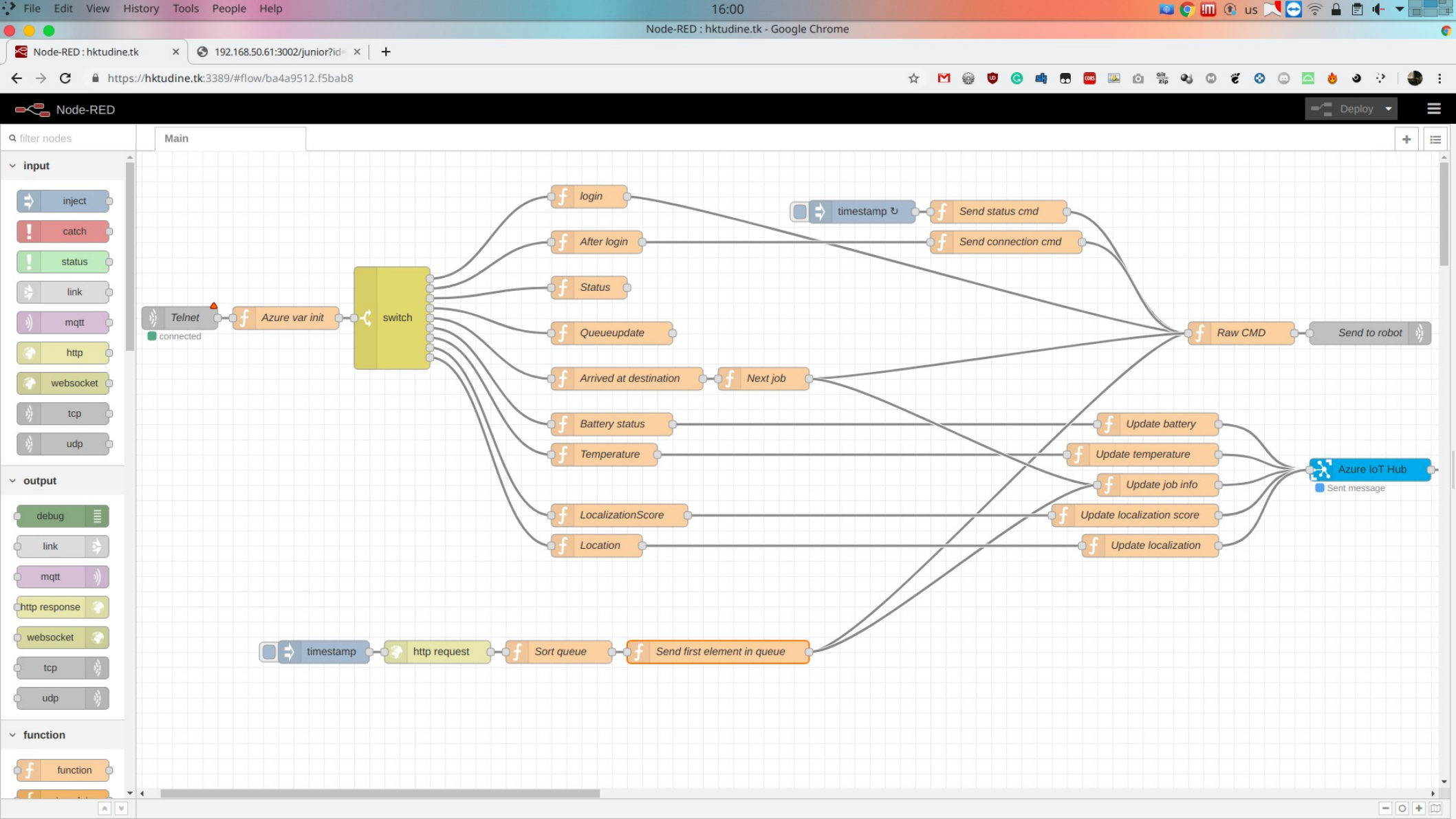
```
{
  "timestamp": "2019-05-30T06:59:42.054Z",
  "participantType": "junior",
  "jobs": [
    {
      "productCode": "02",
      "goalId": "A",
      "jobID": "80_pickup_02_A",
      "jobType": "pickup",
      "priority": 80
    },
    {
      "productCode": "01",
      "goalId": "A",
      "jobID": "40_dropoff_01_A",
      "jobType": "dropoff",
      "priority": 40
    },
    {
      "productCode": "04",
      "goalId": "Z",
      "jobID": "10_dropoff_04_Z",
      "jobType": "dropoff",
      "priority": 10
    },
    {
      "productCode": "01",
      "goalId": "C",
      "jobID": "100_pickup_01_C",
      "jobType": "pickup",
      "priority": 100
    },
    {
      "productCode": "03",
      "goalId": "C",
      "jobID": "50_dropoff_03_C",
      "jobType": "dropoff",
      "priority": 50
    },
    {
      "productCode": "01",
      "goalId": "Z",
      "jobID": "60_pickup_01_Z",
      "jobType": "pickup",
      "priority": 60
    },
    {
      "productCode": "03",
      "goalId": "B",
      "jobID": "70_pickup_03_B",
      "jobType": "pickup",
      "priority": 70
    },
    {
      "productCode": "01",
      "goalId": "Z",
      "jobID": "90_dropoff_01_Z",
      "jobType": "dropoff",
      "priority": 90
    },
    {
      "productCode": "02",
      "goalId": "C",
      "jobID": "20_dropoff_02_C",
      "jobType": "dropoff",
      "priority": 20
    },
    {
      "productCode": "04",
      "goalId": "B",
      "jobID": "30_pickup_04_B",
      "jobType": "pickup",
      "priority": 30
    }
  ]
}
```



String parse Press F11 to exit full screen JS eval

```
[
  {
    "timestamp": "2019-05-30T06:59:42.054Z",
    "participantType": "junior",
    "jobs": [
      {
        "productCode": "02",
        "goalId": "A",
        "jobID": "80_pickup_02_A",
        "jobType": "pickup",
        "priority": 80
      },
      {
        "productCode": "01",
        "goalId": "A",
        "jobID": "40_dropoff_01_A",
        "jobType": "dropoff",
        "priority": 40
      },
      {
        "productCode": "04",
        "goalId": "Z",
        "jobID": "10_dropoff_04_Z",
        "jobType": "dropoff",
        "priority": 10
      },
      {
        "productCode": "01",
        "goalId": "C",
        "jobID": "100_pickup_01_C",
        "jobType": "pickup",
        "priority": 100
      },
      {
        "productCode": "03",
        "goalId": "C",
        "jobID": "50_dropoff_03_C",
        "jobType": "dropoff",
        "priority": 50
      },
      {
        "productCode": "01",
        "goalId": "Z",
        "jobID": "60_pickup_01_Z",
        "jobType": "pickup",
        "priority": 60
      },
      {
        "productCode": "03",
        "goalId": "B",
        "jobID": "70_pickup_03_B",
        "jobType": "pickup",
        "priority": 70
      },
      {
        "productCode": "01",
        "goalId": "Z",
        "jobID": "90_dropoff_01_Z",
        "jobType": "dropoff",
        "priority": 90
      },
      {
        "productCode": "02",
        "goalId": "C",
        "jobID": "20_dropoff_02_C",
        "jobType": "dropoff",
        "priority": 20
      },
      {
        "productCode": "04",
        "goalId": "B",
        "jobID": "30_pickup_04_B",
        "jobType": "pickup",
        "priority": 30
      }
    ]
  }
]
```

```
[
  {
    "timestamp": "2019-05-30T06:59:42.054Z",
    "participantType": "junior",
    "jobs": [
      {
        "productCode": "02",
        "goalId": "A",
        "jobID": "80_pickup_02_A",
        "jobType": "pickup",
        "priority": 80
      },
      {
        "productCode": "01",
        "goalId": "A",
        "jobID": "40_dropoff_01_A",
        "jobType": "dropoff",
        "priority": 40
      },
      {
        "productCode": "04",
        "goalId": "Z",
        "jobID": "10_dropoff_04_Z",
        "jobType": "dropoff",
        "priority": 10
      },
      {
        "productCode": "01",
        "goalId": "C",
        "jobID": "100_pickup_01_C",
        "jobType": "pickup",
        "priority": 100
      },
      {
        "productCode": "03",
        "goalId": "C",
        "jobID": "50_dropoff_03_C",
        "jobType": "dropoff",
        "priority": 50
      },
      {
        "productCode": "01",
        "goalId": "Z",
        "jobID": "60_pickup_01_Z",
        "jobType": "pickup",
        "priority": 60
      },
      {
        "productCode": "03",
        "goalId": "B",
        "jobID": "70_pickup_03_B",
        "jobType": "pickup",
        "priority": 70
      },
      {
        "productCode": "01",
        "goalId": "Z",
        "jobID": "90_dropoff_01_Z",
        "jobType": "dropoff",
        "priority": 90
      },
      {
        "productCode": "02",
        "goalId": "C",
        "jobID": "20_dropoff_02_C",
        "jobType": "dropoff",
        "priority": 20
      },
      {
        "productCode": "04",
        "goalId": "B",
        "jobID": "30_pickup_04_B",
        "jobType": "pickup",
        "priority": 30
      }
    ]
  }
]
```



filter nodes

Main

input

inject

catch

status

link

mqtt

http

websocket

tcp

udp

output

debug

link

mqtt

http response

websocket

tcp

udp

function

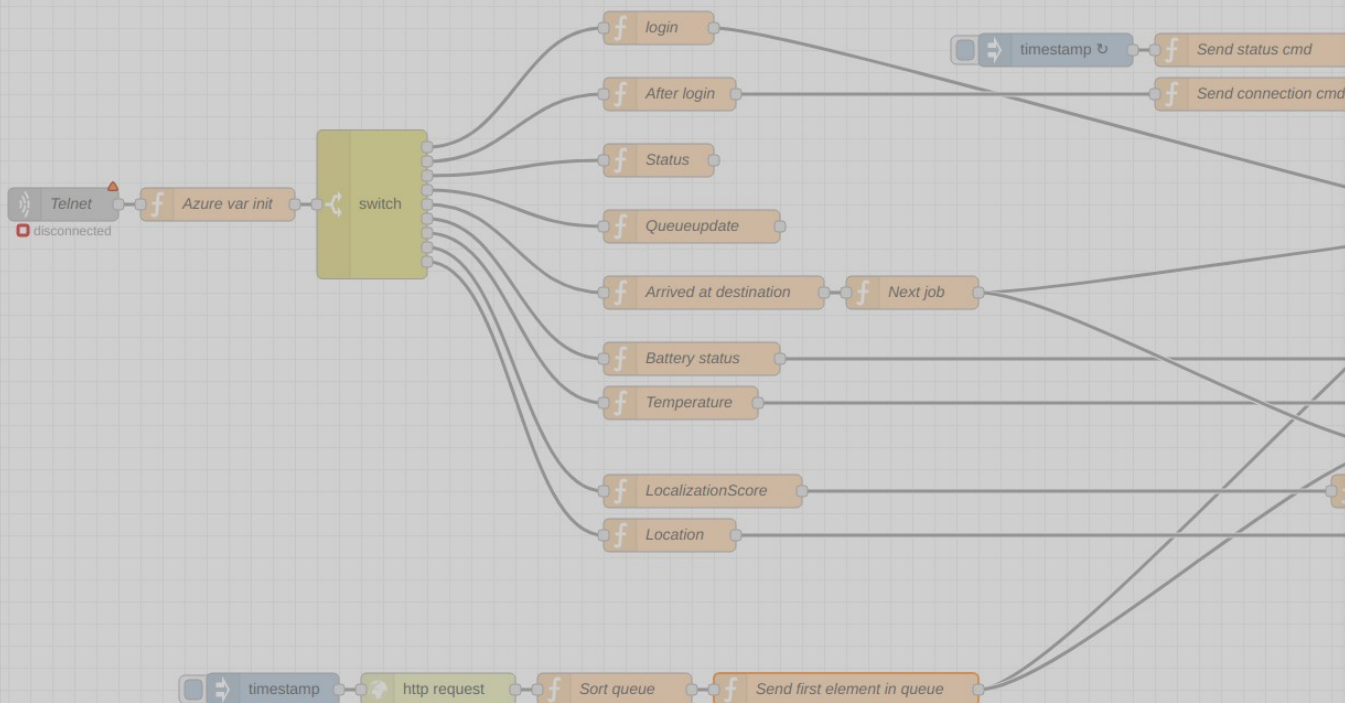
function

template

delay

trigger

comment



Edit function node

Delete

Cancel

Done

Properties

Name

Send first element in queue

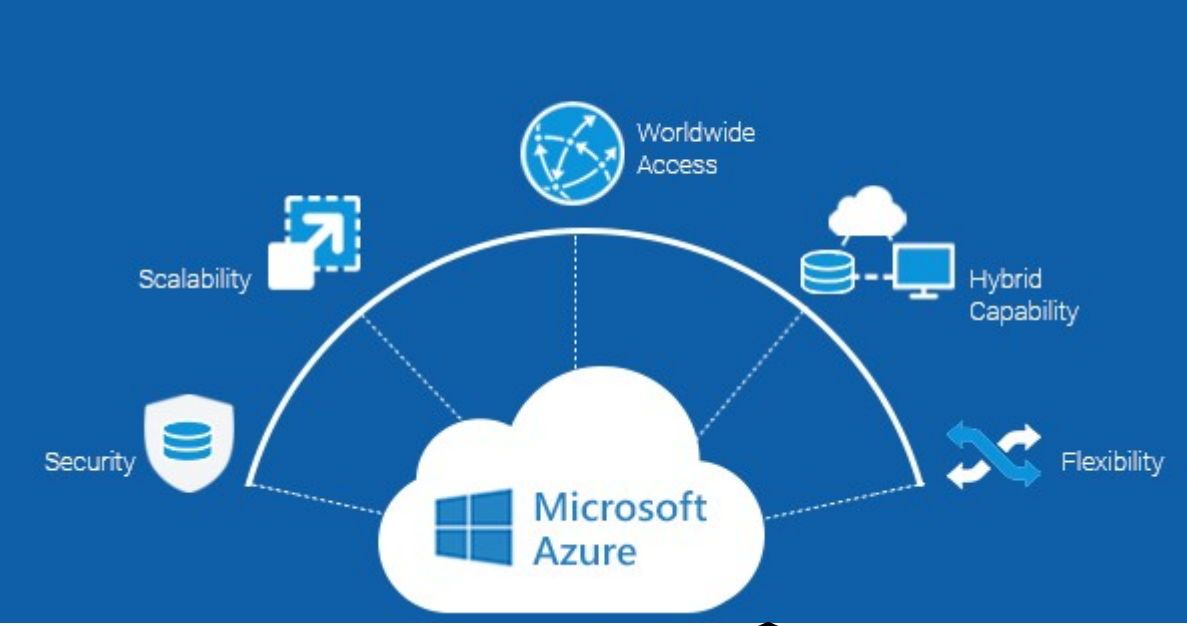
Function

```
1 let jobs = global.get('jobs');
2 let job = jobs[0];
3
4
5 node.warn(jobs);
6
7 let CMD = '';
8 let other = '';
9
10 if(global.get('loggedin') === true){
11   CMD += 'queue'+job.jobType+' ';
12   CMD += job.goalId+' ';
13   CMD += job.priority.toString()+ ' ';
14   CMD += job.jobID;
15   CMD += '\n';
16 } else {
17   node.warn('NOT LOGGED IN!')
18 }
19
20 if(job.jobType == 'dropoff'){
21   CMD = 'say vado a scaricare '+job.goalId+'\n'
22   other = 'Scarico '+job.goalId;
23 } else {
24   CMD = 'say vado a prendere '+job.goalId+'\n'
25   other = 'Carico '+job.goalId;
26 }
27
28 node.warn(CMD);
29
30 global.set('expectedDestination', job.goalId);
31
32 jobs.shift();
33 global.set('jobs', jobs);
34
35 return {RAW_CMD: CMD, other: other};
```

Outputs

1

 <https://hktudine.tk>



HTTPS &
SSH



TCP



arduino-1.8.9

```
(nodered) 40.89.158.96 — Konsole
QueueUpdate: DROPOFF128 ykxinudropoff_01_A 20 InProgress Allocated Goal "A" "FIDO" 05/30/2019 15:27:23 None None 0
QueueUpdate: DROPOFF128 ykxinudropoff_01_A 20 InProgress Driving Goal "A" "FIDO" 05/30/2019 15:27:23 None None 0
QueueUpdate: PICKUP129 pickup_01_A 6 Pending None Goal "A" "None" 05/30/2019 15:27:31 None None 0
Arrived at A
QueueUpdate: DROPOFF128 ykxinudropoff_01_A 20 Completed None Goal "A" "FIDO" 05/30/2019 15:27:23 05/30/2019 15:27:57 0
QueueUpdate: PICKUP129 pickup_01_A 6 InProgress UnAllocated Goal "A" "FIDO" 05/30/2019 15:27:31 None None 0
QueueUpdate: PICKUP129 pickup_01_A 6 InProgress Allocated Goal "A" "FIDO" 05/30/2019 15:27:31 None None 0
Going to A
QueueUpdate: PICKUP129 pickup_01_A 6 InProgress Driving Goal "A" "FIDO" 05/30/2019 15:27:31 None None 0
Arrived at A
QueueUpdate: PICKUP129 pickup_01_A 6 Completed None Goal "A" "FIDO" 05/30/2019 15:27:31 05/30/2019 15:27:58 0
QueueUpdate: PICKUP130 ykxinupickup_03_C 10 Pending None Goal "C" "None" 05/30/2019 15:27:59 None None 0
QueueUpdate: PICKUP130 ykxinupickup_03_C 10 InProgress UnAllocated Goal "C" "FIDO" 05/30/2019 15:27:59 None None 0
Going to C
QueueUpdate: PICKUP130 ykxinupickup_03_C 10 InProgress Allocated Goal "C" "FIDO" 05/30/2019 15:27:59 None None 0
QueueUpdate: PICKUP130 ykxinupickup_03_C 10 InProgress Driving Goal "C" "FIDO" 05/30/2019 15:27:59 None None 0
Arrived at C
QueueUpdate: PICKUP130 ykxinupickup_03_C 10 Completed None Goal "C" "FIDO" 05/30/2019 15:27:59 05/30/2019 15:28:35 0
QueueUpdate: PICKUP131 ykxinupickup_02_B 10 Pending None Goal "B" "None" 05/30/2019 15:28:38 None None 0
QueueUpdate: PICKUP131 ykxinupickup_02_B 10 InProgress UnAllocated Goal "B" "FIDO" 05/30/2019 15:28:38 None None 0
Going to B
QueueUpdate: PICKUP131 ykxinupickup_02_B 10 InProgress Allocated Goal "B" "FIDO" 05/30/2019 15:28:38 None None 0
QueueUpdate: PICKUP131 ykxinupickup_02_B 10 InProgress Driving Goal "B" "FIDO" 05/30/2019 15:28:38 None None 0
QueueUpdate: PICKUP132 pickup_01_A 11 Pending None Goal "A" "None" 05/30/2019 15:28:51 None None 0
Arrived at B
QueueUpdate: PICKUP131 ykxinupickup_02_B 10 Completed None Goal "B" "FIDO" 05/30/2019 15:28:38 05/30/2019 15:28:56 0
QueueUpdate: PICKUP132 pickup_01_A 11 InProgress UnAllocated Goal "A" "FIDO" 05/30/2019 15:28:51 None None 0
Going to A
QueueUpdate: PICKUP132 pickup_01_A 11 InProgress Allocated Goal "A" "FIDO" 05/30/2019 15:28:51 None None 0
QueueUpdate: DROPOFF133 diap@ddropoff_02_B 20 Pending None Goal "B" "FIDO" 05/30/2019 15:28:56 None None 0
QueueUpdate: PICKUP132 pickup_01_A 11 InProgress Driving Goal "A" "FIDO" 05/30/2019 15:28:51 None None 0
Arrived at A
QueueUpdate: PICKUP132 pickup_01_A 11 Completed None Goal "A" "FIDO" 05/30/2019 15:28:51 05/30/2019 15:29:22 0
QueueUpdate: DROPOFF133 diap@ddropoff_02_B 20 InProgress UnAllocated Goal "B" "FIDO" 05/30/2019 15:28:56 None None 0
Going to B
QueueUpdate: DROPOFF133 diap@ddropoff_02_B 20 InProgress Allocated Goal "B" "FIDO" 05/30/2019 15:28:56 None None 0
QueueUpdate: DROPOFF133 diap@ddropoff_02_B 20 InProgress Driving Goal "B" "FIDO" 05/30/2019 15:28:56 None None 0
QueueUpdate: DROPOFF134 9ev@o8dropoff_03_C 20 Pending None Goal "C" "FIDO" 05/30/2019 15:29:42 None None 0
Arrived at B
QueueUpdate: DROPOFF133 diap@ddropoff_02_B 20 Completed None Goal "B" "FIDO" 05/30/2019 15:28:56 05/30/2019 15:29:49 0
QueueUpdate: DROPOFF134 9ev@o8dropoff_03_C 20 InProgress UnAllocated Goal "C" "FIDO" 05/30/2019 15:29:42 None None 0
Going to C
QueueUpdate: DROPOFF134 9ev@o8dropoff_03_C 20 InProgress Allocated Goal "C" "FIDO" 05/30/2019 15:29:42 None None 0
QueueUpdate: DROPOFF134 9ev@o8dropoff_03_C 20 InProgress Driving Goal "C" "FIDO" 05/30/2019 15:29:42 None None 0
Shutting down
Shutting down server
u 18.04 1-5410 0:- 1:-#- 2:-# 3:-# 4:-# 5:- 15h47m 0.01 2x2.36GHz 7.8G13% 29G6% 2019-05-30 14:34:41
```



- Dashboard
- Device Explorer
- Device Sets
- Analytics
- Jobs
- Device Templates
- Continuous Data Export
- Administration

Omron

+ New ✎ Edit 🗑 Delete



Completed jobs

10

5/30/2019, 3:59:11 PM

Remaining jobs

0

5/30/2019, 3:59:11 PM

History

Value	Time
Scarico Z	5/30/2019, 3:59:11 PM
Scarico C	5/30/2019, 3:59:10 PM
Carico B	5/30/2019, 3:58:38 PM
Scarico A	5/30/2019, 3:58:12 PM
Scarico C	5/30/2019, 3:57:52 PM
Carico Z	5/30/2019, 3:57:26 PM
Carico B	5/30/2019, 3:57:09 PM
Carico A	5/30/2019, 3:56:50 PM
Scarico Z	5/30/2019, 3:56:15 PM
Carico C	5/30/2019, 3:55:58 PM

Localization Score (%)

0

5/30/2019, 4:02:11 PM

Location X

65

5/30/2019, 4:02:11 PM

Location Y

1.4...

5/30/2019, 4:02:11 PM

Location Z

-72

5/30/2019, 4:02:11 PM

Temperature (°C)

42.00

Temperature

120.00

● temperatur

- Dashboard
- Device Explorer
- Device Sets
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- Jobs
- Device Templates
- Continuous Data Export
- Administration

Omron

+ New ✎ Edit 🗑 Delete

5/30/2019, 4:02:11 PM

5/30/2019, 4:02:11 PM

5/30/2019, 4:02:11 PM

5/30/2019, 4:02:11 PM

Scarico Z

5/30/2019, 3:56:15 PM

Carico C

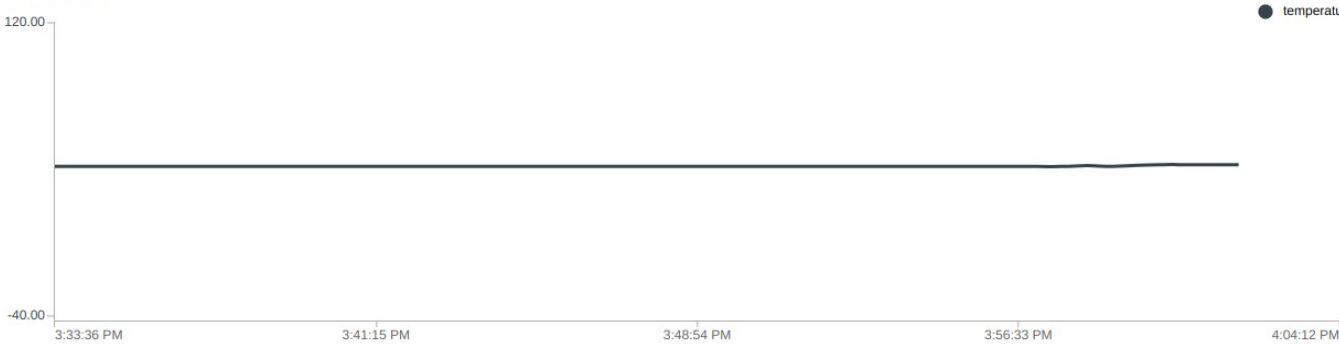
5/30/2019, 3:55:58 PM

Temperature (°C)

42.00

5/30/2019, 4:02:11 PM

Temperature



Battery (%)

49.0

5/30/2019, 4:02:11 PM

Battery

