

Atlas

Project 0 Data Services Charts

Overview Real Time Metrics Collections Atlas Search Performance Advisor Online Archive Cmd Line Tools

DATABASES: 6 COLLECTIONS: 11

+ Create Database

Search Namespaces

newSensorDB sample_mflix sensornew

smartroomdb.thermaldp

STORAGE SIZE: 156KB LOGICAL DATA SIZE: 262.69KB TOTAL DOCUMENTS: 1167 INDEXES TOTAL SIZE: 80KB

Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Generate queries from natural language in Compass ↗

INSERT DOCUMENT

Filter ↗ Type a query: { field: 'value' }

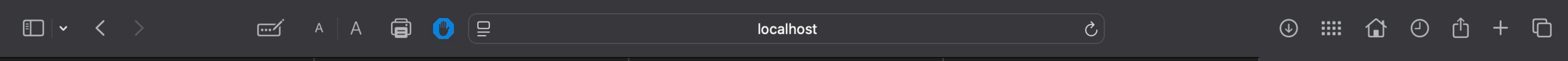
Reset Apply Options ▾

`_id: ObjectId('670b531c6222016ddd509cd8')
topic : "/smartroom/heater100"
payload : Object
qos : 0
retain : false
msgid : "59e8989b056a9447"`

`_id: ObjectId('670b53216222016ddd509cd9')
topic : "/smartroom/heater100"
payload : Object
qos : 0
retain : false
msgid : "77796a751ba4bacb"`

PREVIOUS 1-20 of many results NEXT

Om's Org - 2... Access Manager Billing All Clusters Get Help Om



Node-RED

filter nodes

Flow 1

trigger

exec

filter

network

mqtt in

mqtt out

http in

http response

http request

websocket in

websocket out

tcp in

tcp out

tcp request

udp in

udp out

sequence

split

join

sort

batch

parser

localhost

OnTrack

Cluster0 Data | Cloud: MongoDB Cloud

Query Your Data - MongoDB Compass

Node-RED : Flow 1

Deploy

debug

all nodes

all

Flow 1

```
graph LR; /smartroom/heater100[/smartroom/heater100] --> json[json]; json --> function1["function 1"]; function1 --> smartroomdb[smartroomdb@cluster0.kpk7u.mongodb.net thermaldp]; smartroomdb --> /smartroom/heater/control[/smartroom/heater/control]
```

The screenshot shows a Node-RED flow titled "Flow 1" running on "localhost". The flow consists of the following nodes connected sequentially:

- /smartroom/heater100 (HTTP In)
- json (Parser node)
- function 1 (Function node)
- smartroomdb@cluster0.kpk7u.mongodb.net thermaldp (MongoDB node)
- /smartroom/heater/control (HTTP Out)

All connections between nodes are marked as "connected".

```
...@ubuntu@ip-172-31-45-187: ~ — ssh -i room.pem ubuntu@ec2-54-204-71-146.compute-1.amazonaws.com
```

```
Unpacking apache2-utils (2.4.58-1ubuntu8.4) ...
Selecting previously unselected package apache2.
Preparing to unpack .../8-apache2_2.4.58-1ubuntu8.4_amd64.deb ...
Unpacking apache2 (2.4.58-1ubuntu8.4) ...
Selecting previously unselected package ssl-cert.
Preparing to unpack .../9-ssl-cert_1.1.2ubuntu1_all.deb ...
Unpacking ssl-cert (1.1.2ubuntu1) ...
Setting up ssl-cert (1.1.2ubuntu1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ssl-cert.service → /usr/lib/systemd/system/ssl-cert.service.
Setting up libapr1t64:amd64 (1.7.2-3.1ubuntu0.1) ...
Setting up liblua5.4-0:amd64 (5.4.6-3build2) ...
Setting up apache2-data (2.4.58-1ubuntu8.4) ...
Setting up libaprutil1t64:amd64 (1.6.3-1.1ubuntu7) ...
Setting up libaprutil1-ldap:amd64 (1.6.3-1.1ubuntu7) ...
Setting up libaprutil1-dbd-sqlite3:amd64 (1.6.3-1.1ubuntu7) ...
Setting up apache2-utils (2.4.58-1ubuntu8.4) ...
Setting up apache2-bin (2.4.58-1ubuntu8.4) ...
Setting up apache2 (2.4.58-1ubuntu8.4) ...
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /usr/lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /usr/lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
```

```
...ubuntu@ip-172-31-45-207: ~ — ssh -i room.pem ubuntu@ec2-3-81-113-118.compute-1.amazonaws.com
```

```
...@ubuntu@ip-172-31-45-187: ~ — ssh -i room.pem ubuntu@ec2-54-204-71-146.compute-1.amazonaws.com
```

```
...ubuntu@ip-172-31-45-207: ~ — ssh -i room.pem ubuntu@ec2-3-81-113-118.compute-1.amazonaws.com
```

```
Preparing to unpack .../8-apache2_2.4.58-1ubuntu8.4_amd64.deb ...
Unpacking apache2 (2.4.58-1ubuntu8.4) ...
Selecting previously unselected package ssl-cert.
Preparing to unpack .../9-ssl-cert_1.1.2ubuntu1_all.deb ...
Unpacking ssl-cert (1.1.2ubuntu1) ...
Setting up ssl-cert (1.1.2ubuntu1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ssl-cert.service → /usr/lib/systemd/system/ssl-cert.service.
Setting up libapr1t64:amd64 (1.7.2-3.1ubuntu0.1) ...
Setting up liblua5.4-0:amd64 (5.4.6-3build2) ...
Setting up apache2-data (2.4.58-1ubuntu8.4) ...
Setting up libaprutil1t64:amd64 (1.6.3-1.1ubuntu7) ...
Setting up libaprutil1-ldap:amd64 (1.6.3-1.1ubuntu7) ...
Setting up libaprutil1-dbd-sqlite3:amd64 (1.6.3-1.1ubuntu7) ...
Setting up apache2-utils (2.4.58-1ubuntu8.4) ...
Setting up apache2-bin (2.4.58-1ubuntu8.4) ...
Setting up apache2 (2.4.58-1ubuntu8.4) ...
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /usr/lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /usr/lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
Scanning processes...
Scanning linux images...

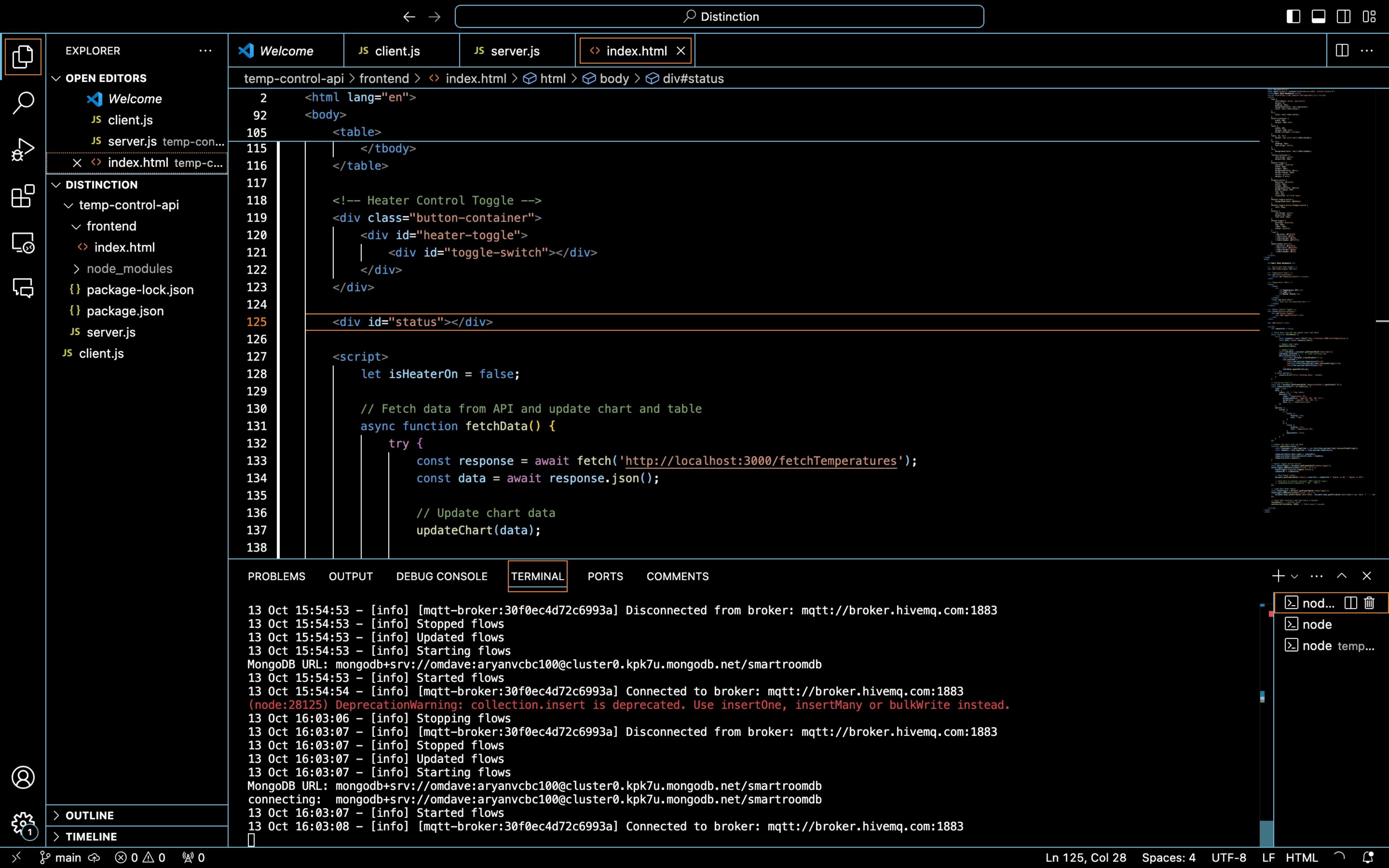
Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
[ubuntu@ip-172-31-45-207:~$ ls
project
ubuntu@ip-172-31-45-207:~$ ]
```



EXPLORER ...

OPEN EDITORS

- Welcome
- client.js
- server.js
- index.html**

DISTINCTION

- temp-control-api
- frontend
- index.html**
- node_modules
- package-lock.json
- package.json
- server.js
- client.js

Welcome client.js server.js index.html

temp-control-api > frontend > index.html > html > body > div#status

```
2      <html lang="en">
92     <body>
105    <table>
115    |   </tbody>
116    |   </table>
117
118    <!-- Heater Control Toggle -->
119    <div class="button-container">
120        <div id="heater-toggle">
121            <div id="toggle-switch"></div>
122        </div>
123    </div>
124
125    <div id="status"></div>
126
127    <script>
128        let isHeaterOn = false;
129
130        // Fetch data from API and update chart and table
131        async function fetchData() {
132            try {
133                const response = await fetch('http://localhost:3000/fetchTemperatures');
134                const data = await response.json();
135
136                // Update chart data
137                updateChart(data);
138            }
139        }
140    </script>
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

Temperature sent: {"temperature":15,"time":"2024-10-13T06:32:21.296Z"}
Temperature sent: {"temperature":14,"time":"2024-10-13T06:32:26.298Z"}
Temperature sent: {"temperature":11,"time":"2024-10-13T06:32:31.299Z"}
Temperature sent: {"temperature":25,"time":"2024-10-13T06:32:36.300Z"}
Temperature sent: {"temperature":12,"time":"2024-10-13T06:32:41.301Z"}
Temperature sent: {"temperature":24,"time":"2024-10-13T06:32:46.302Z"}
Temperature sent: {"temperature":14,"time":"2024-10-13T06:32:51.303Z"}
Temperature sent: {"temperature":10,"time":"2024-10-13T06:32:56.306Z"}
Temperature sent: {"temperature":18,"time":"2024-10-13T06:33:01.311Z"}
Temperature sent: {"temperature":10,"time":"2024-10-13T06:33:06.317Z"}
Temperature sent: {"temperature":17,"time":"2024-10-13T06:33:29.841Z"}
Temperature sent: {"temperature":16,"time":"2024-10-13T06:33:34.845Z"}
Temperature sent: {"temperature":13,"time":"2024-10-13T06:33:39.848Z"}
Temperature sent: {"temperature":25,"time":"2024-10-13T06:33:44.851Z"}
Temperature sent: {"temperature":10,"time":"2024-10-13T06:33:49.853Z"}
Temperature sent: {"temperature":18,"time":"2024-10-13T06:33:54.855Z"}
Temperature sent: {"temperature":16,"time":"2024-10-13T06:33:59.857Z"}

+ ⌂ ⌄ ⌈ ⌉ ×

node .node...
node ⌂ ⌄
node temp...



Not Secure

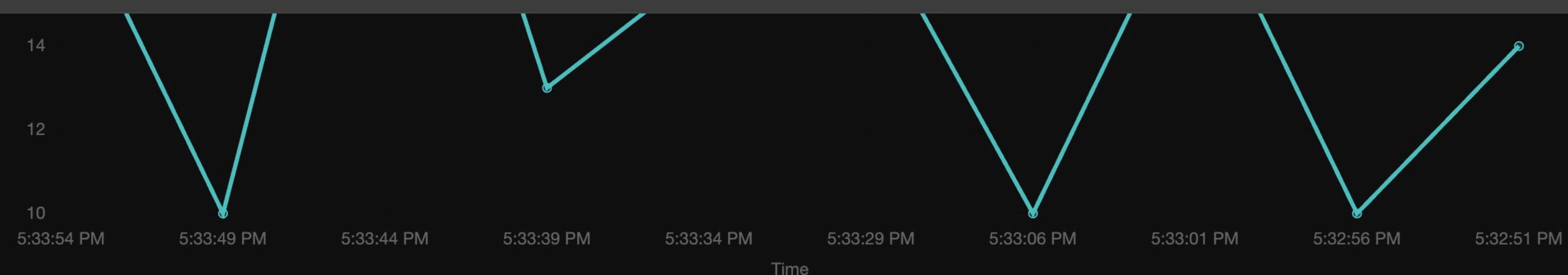
amiroom-1053316662.us-east-1.elb.amazonaws.com:3000



Gmail

YouTube

Maps



Temperature (°C)	Time	Heater Status
18°C	10/13/2024, 5:33:54 PM	OFF
10°C	10/13/2024, 5:33:49 PM	ON
25°C	10/13/2024, 5:33:44 PM	OFF
13°C	10/13/2024, 5:33:39 PM	ON
16°C	10/13/2024, 5:33:34 PM	ON
17°C	10/13/2024, 5:33:29 PM	ON
10°C	10/13/2024, 5:33:06 PM	ON
18°C	10/13/2024, 5:33:01 PM	OFF
10°C	10/13/2024, 5:32:56 PM	ON
14°C	10/13/2024, 5:32:51 PM	ON



Heater is OFF



Not Secure

amiroom-1053316662.us-east-1.elb.amazonaws.com:3000

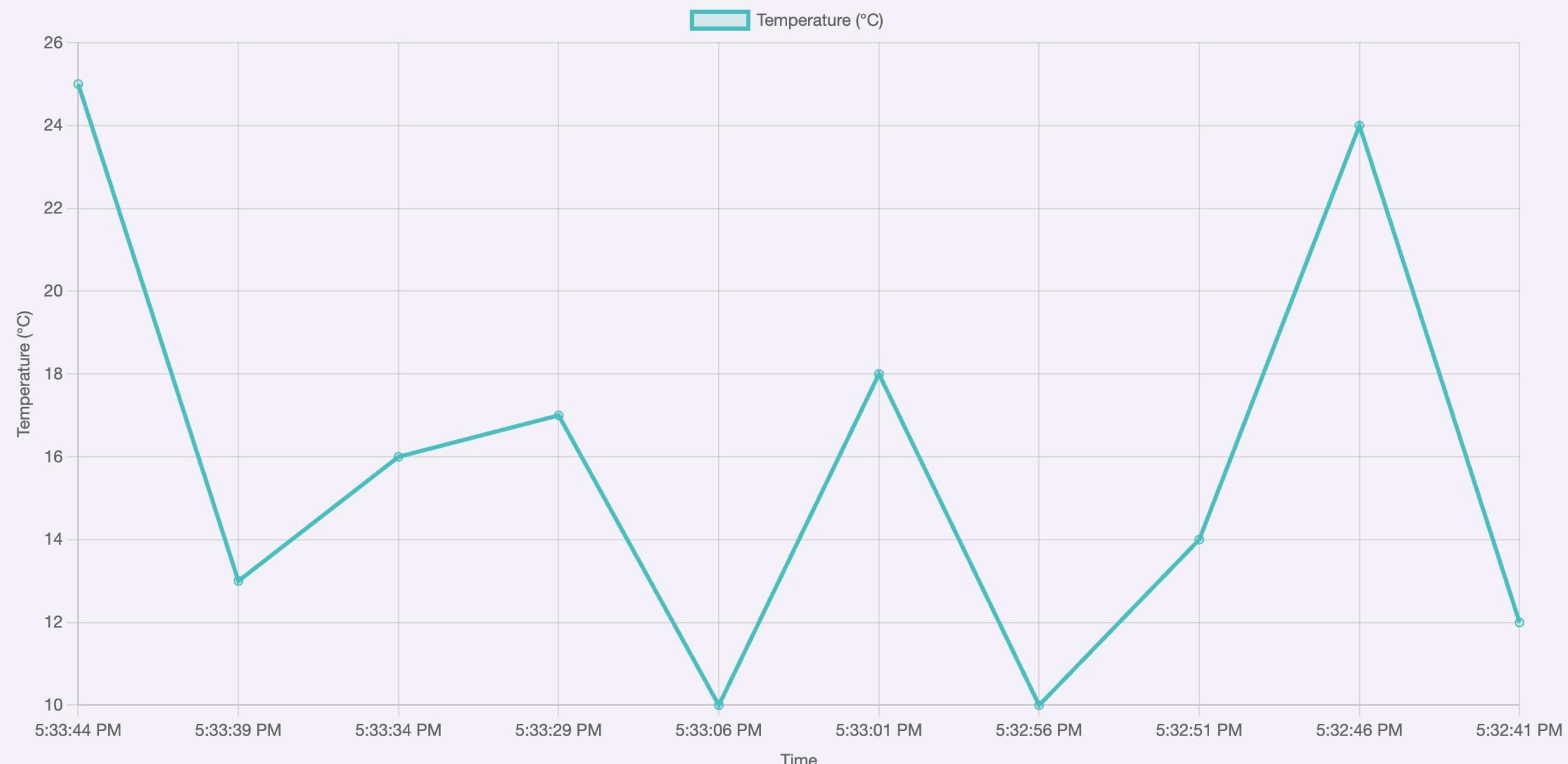


Smart Room Dashboard



Temperature (°C)	Time	Heater Status
10°C	10/13/2024, 5:33:49 PM	ON

Smart Room Dashboard



Temperature (°C)	Time	Heater Status
25°C	10/13/2024, 5:33:44 PM	OFF

1-65535

▶ Advanced health check settings

Instances (2)RemoveAdd instances

You can add instances to register as targets of the load balancer. Alternatively, after your load balancer is created, you can add it to an Amazon EC2 Auto Scaling group to ensure you maintain the correct number of instances to handle the load for your application. For maximum fault tolerance, we recommend maintaining approximately equivalent numbers of instances in each Availability Zone.

Instances (2)				
Filter instances < 1 > ⚙️				
<input type="checkbox"/>	Instance ID	Name	State	Security groups
<input type="checkbox"/>	i-01c33c80b279bd79b	smartroom_2	Running	launch-wizard-7
<input type="checkbox"/>	i-01ceb46c22ea6a99a	smartroom_1	Running	launch-wizard-7

Attributes

Creating your load balancer using the console gives you the opportunity to specify additional features at launch. You can also find and adjust these settings in the load balancer's "Attributes" section after your load balancer is created.

 Enable cross-zone load balancing

With cross-zone load balancing, each load balancer node for your Classic Load Balancer distributes requests evenly across the registered instances in all enabled Availability Zones. If cross-zone load balancing is disabled, each load balancer node distributes requests evenly across the registered instances in its Availability Zone only. Classic Load Balancers created with the API or CLI have cross-zone load balancing disabled by default. After you create a Classic Load Balancer, you can enable or disable cross-zone load balancing at any time.

 Enable connection draining

Applicable to instances that are deregistering, this feature allows existing connections to complete (during a specified draining interval) before reporting the instance as deregistered.
[Learn more](#)

Timeout (draining interval)

The maximum time for the load balancer to allow existing connections to complete. When the maximum time limit is reached, the load balancer forcibly closes any remaining connections and reports the instance as deregistered.

300

seconds