

## Logz.io Plugin

In this tutorial, we take the example application, used in [Writing an Application](#), and add a remote logging service container using [Fluentd with Logz](#).

**WARNING:** You will need an account at [Logz.io](#) :fa-external-link-square: to continue."

### Install the example application and configure Fluentd

With the Oak API, we can install the example application and the fluentd component, with Logz.

Be sure to specify the Logz type and token, in the API call, with your organization information.

```
{
  "services": [{
    "image": "index.docker.io/oaklabs/app-example:release-1.0.1",
    "environment": {
      "TZ": "America/Phoenix"
    }
  },
  {
    "image": "index.docker.io/oaklabs/component-fluentd:logzio",
    "environment": {
      "LOGZ_TYPE": "{{logzType}}",
      "LOGZ_TOKEN": "{{logzToken}}"
    }
  }
]
```

Remember to authenticate, against the API, before installing.

Depending on your network connection, it may take some time to complete installing the Docker containers on your OakOS device.

**INFO** You may view the idle application before swapping idle, with the Oak Platform API.

### Viewing the logs

The example application sends two logging statements, one with all environment variables and another, with the `REMOTE_URL` variable: <https://github.com/OakLabsInc/app-example/blob/master/src/index.js>

```
const oak = require('oak')
console.log(process.env)
console.log("REMOTE_URL", process.env.REMOTE_URL)
oak.on('ready', () => {
  oak.load({
    url: process.env.REMOTE_URL || 'https://www.zivelo.com'
  })
})
```

The first `console.log()` call will send the hash of environment variables as separate items in Logz.io - Kibana.

The second statement specifically logs `REMOTE_URL`, which is shown in the Kibana Discover search form.



**Figure 1.1** - Search results for `REMOTE_URL`, in Kibana, at Logz.io.

Once the example application is deployed to the Oak Device, the console logging sends information to Logz.io, see Figure 1.1.

All the logging entries are expandable and contain `{{logzType}}` set in type, along with the hostname and other data.

▼

August 5th 2019, 18:06:05.548 TZ: 'America/Phoenix',

Table	JSON
@timestamp	August 5th 2019, 18:06:05.548
fluentd_tags	application.app-example-0_1
hostname	54b2
message	TZ: 'America/Phoenix',
pid	26697
service	app-example-0_1
tags	_logz_http_bulk_json_8070
type	zi

**Figure 1.2** - Expanded log entry for the `TZ` environment variable on Kibana - Logz.io.

When we installed the example application, we also set an environment variable for the timezone `TZ`, that got passed into the application, see Figure 1.2.