

Build to Manage - Node.js Observability labs

During this lab we will instrument a simple Node.js application for logging in order to use with log analytics tools like [Elastic stack](#) and [Humio](#) as well as with metrics for monitoring with [Prometheus](#) and [Grafana](#).

Instrumentation of the application code with metrics, logging and tracing is part of the general concept we call **Build to Manage**. It specifies the practice of activities developers can do in order to provide manageability aspects as part of an application release.

Objectives

- Lab 1: Node.js logging with Winston and ELK stack
- Lab 2: Node.js logging with Winston and Humio
- Lab 3: Node.js metrics instrumentation and monitoring with Prometheus and Grafana
- Lab 4: Configure application monitoring with Prometheus on Openshift
- Distributed tracing labs

Prerequisites

Install the following software on your workstation. You may use your laptop for all the labs, but probably a better idea is to use a clean Linux VM.

- [Docker for Desktop](#)
- [Docker Compose](#)
- Openshift [oc](#) CLI (optional)
- [curl](#)

Clone the following repository from GitHub.

```
git clone https://github.com/garage-milan/b2m-nodejs-v2
```

Most of the commands should be executed from the `b2m-nodejs-v2/lab-x` directory:

The solution to the lab is located in the directory `b2m-nodejs-v2/lab-x/solution`

[Login to Docker Hub](#) using `docker login` in order to avoid the problems with [recently introduced limits](#).