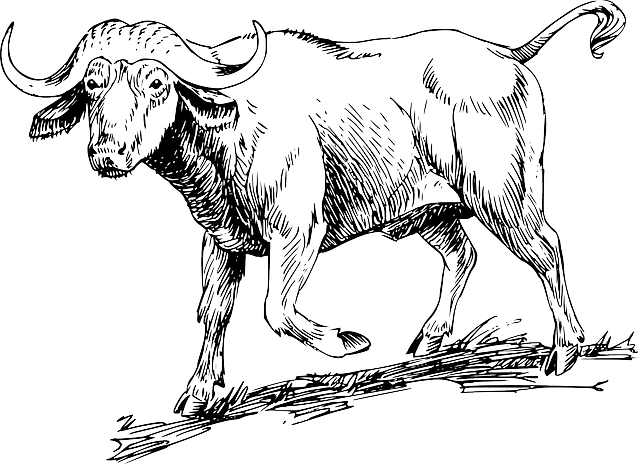
Moja Reporting Tool

BUILD GUIDE

02 December 2020



# 

# Introduction

This document is a second installment in a series of guides detailing how to set up and operate the Reporting Tool. Its role is to lay out a step by step guide on how to build the Reporting Tool source code into an executable format. It assumes that you have already set up the needed environment as detailed in the first guide: [Setting Up The Reporting Tool Environment](https://docs.google.com/document/u/0/d/1W3pb893CwDfrJxxLCxULwlmP5dBau-CpAamwiPFfluo/edit).

# Prerequisites

We need to meet two preconditions in order to successfully build the Reporting Tool:

|  | Prerequirement | |
| --- | --- | --- |
| 1 | Ascertaining that the Reporting Tool Source Code has been successfully cloned to the build server | |
| 2. | Ascertaining that the Reporting Tool System Environment has been successfully set up | |

## 

# Outline

There are four key steps that we need to take to successfully build the Reporting Tool Source Code:

|  | Step | |
| --- | --- | --- |
| 1. | Cloning the Reporting Tool Source Code from Github | |
| 2. | Setting up the Reporting Tool System Environment | |
| 3. | Compiling the Reporting Tool Source Code and Building Docker Images out of it | |
| 4. | Adding the built Docker Images to our private Docker Registry (and which Kubernetes has access to) | |

We will explore each of these steps in detail in the sections that follow with the exception of Step 1 and 2 which we covered extensively in the [Reporting Tool Environment Setup Guide](https://docs.google.com/document/u/0/d/1W3pb893CwDfrJxxLCxULwlmP5dBau-CpAamwiPFfluo/edit).

## 

# Building The Reporting Tool

## 1. Building Reporting Tool Docker Images

In order to compile the Reporting Tool Source Code and create Docker Images out of it, we need to:

| 1.1. Change the working directory to the Reporting Tool’s System Services Setup Scripts Directory: | |
| --- | --- |
| cd ~/reporting-tool/scripts/system/services | |
| This assumes that you cloned the Reporting Tool source code in the root of your home directory. | |

| 1.2. Invoke the Reporting Tool Services build script: | |
| --- | --- |
| ./build.sh | |

| 1.3. Change the working directory to the Reporting Tool’s System Client Setup Scripts Directory: | |
| --- | --- |
| cd ~/reporting-tool/scripts/system/client | |
| This assumes that you cloned the Reporting Tool source code in the root of your home directory. | |

| 1.4. Invoke the Reporting Tool Client build script: | |
| --- | --- |
| ./build.sh | |

## 2. Registering Reporting Tool Docker Images

In order to add the built images to our private Docker registry, we need to:

| 2.1. Change the working directory to the Reporting Tool’s System Services Setup Scripts Directory: | |
| --- | --- |
| cd ~/reporting-tool/scripts/system/service | |
| This assumes that you cloned the Reporting Tool source code in the root of your home directory. | |

| 2.2. Invoke the register script: | |
| --- | --- |
| ./register.sh | |

| 2.3. Change the working directory to the Reporting Tool’s System Client Setup Scripts Directory: | |
| --- | --- |
| cd ~/reporting-tool/scripts/system/client | |
| This assumes that you cloned the Reporting Tool source code in the root of your home directory. | |

| ./register.sh | |
| --- | --- |