Moja Reporting Tool

INSTALLATION GUIDE

02 December 2020



# 

# Introduction

This document is a third 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 install the Reporting Tool. It assumes that you have already set up the needed environment as detailed in the first guide: [Reporting Tool Environment Setup Guide](https://docs.google.com/document/u/0/d/1W3pb893CwDfrJxxLCxULwlmP5dBau-CpAamwiPFfluo/edit)  and built the Reporting Tool Docker Images as detailed in the second guide: [Reporting Tool Build Guide](https://docs.google.com/document/u/0/d/1CU2ugodtOdO_JrVfVTx8OSE-sfUyg_f1SEAeDW-22nQ/edit).

# Prerequisites

We need to meet three preconditions in order to successfully install 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 | |
| 3. | Ascertaining that the Reporting Tool Docker Images have been successfully built and registered | |

## 

# Outline

There are seven key steps that we need to take to successfully install the Reporting Tool:

|  | 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) | |
| 5. | Installing Default Data Configurations | |
| 6. | Installing the Microservices | |
| 7. | Installing the User Interface (Client) | |

We will explore Step 5 to 7 in the section that follows; having already explored Step 1 and 2 extensively in the [Reporting Tool Environment Setup Guide](https://docs.google.com/document/u/0/d/1W3pb893CwDfrJxxLCxULwlmP5dBau-CpAamwiPFfluo/edit) and Step 3, 4 and 5 in the [Reporting Tool Build Guide](https://docs.google.com/document/u/0/d/1CU2ugodtOdO_JrVfVTx8OSE-sfUyg_f1SEAeDW-22nQ/edit).

## 

# Installing The Reporting Tool

## 1. Installing Default Configuration Data

In order to install the Reporting Tool’s default configuration data, we need to:

| 1.1. Open a Linux Terminal: | |
| --- | --- |

| 1.2. Start a bash session on one of the Cassandra instances running inside Kubernetes: | |
| --- | --- |
| kubectl exec -it cassandra-0 /bin/bash | |

| 1.3. Invoke the database initialization script | |
| --- | --- |
| Bash /tmp/data/init.sh | |

| 1.4. Exit from the Cassandra Instance when done: | |
| --- | --- |
| exit | |

## 2. Installing Services

In order to add the Reporting Tool services into our Kubernetes Cluster, 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 services installation script: | |
| --- | --- |
| ./install.sh | |

## 3. Installing The User Interface

In order to add the Reporting Tool services into our Kubernetes Cluster, we need to:

| 3.1. 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. | |

| 3.2. Invoke the client installation script: | |
| --- | --- |
| ./install.sh | |