



Pushing Performance

People | Power | Partnership

User Guide

TIGK Container 2.5.0

1st Edition 2020

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1 Introduction

1.1 About the TIGK Container

The TIGK Stack is a collection of associated technologies which combine to deliver a platform for storing, capturing, monitoring and visualizing data that is in time series. The TIGK stack consists of the following technologies:

- Telegraf – a collection of tie sequential data from a range of sources including IoT devices.
- InfluxDB – a high performance and efficient database store for handling high volumes of time-series data.
- Grafana – a real-time visualization of InfluxDB data.
- Kapacitor – offers monitoring and alerting based on views of InfluxDB data and anomalies contained within those views.

TIGK Container is a lightweight port of the TIGK stack to the MICA with a simple user interface.

It is especially useful for monitoring the behavior of machines and sensors and for creating notifications if values change or certain conditions occur.

2 General Overview

2.1 Operation Requirements and Conditions

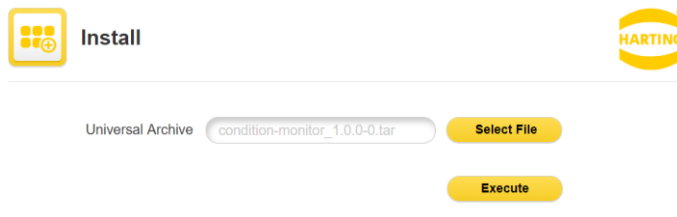
TIGK Container requires a MICA with firmware version 7 or higher.

3 Installation, Initial Setup and Configuration

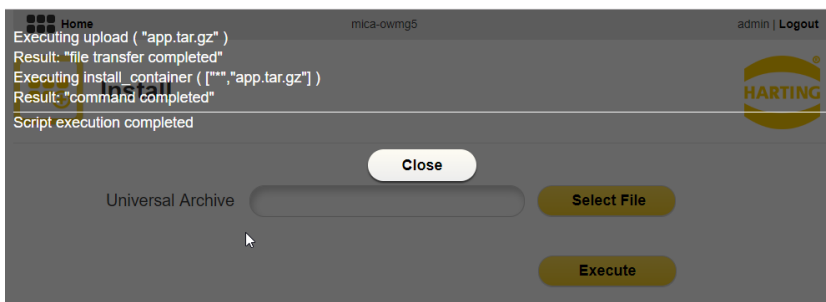
3.1 Installation of TIGK Container

3.1.1 Default Installation

With this software package, you can install the TIGK Container on a MICA.



1. Log in to the MICA with admin rights.
2. Click *Install*.
3. Click *Select File* and select the installation archive.
4. Click *Execute* to start the installation.
5. The installer will display the readme file with information about the installation archive.

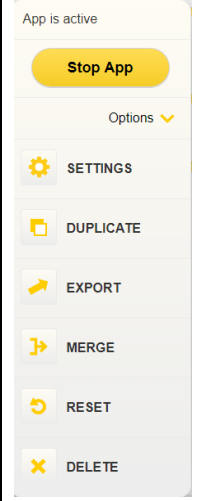


6. Wait until the installation is finished and click *Close*.

The installed container is initially turned off. Right click on the container and press *Start App* button to start the container.

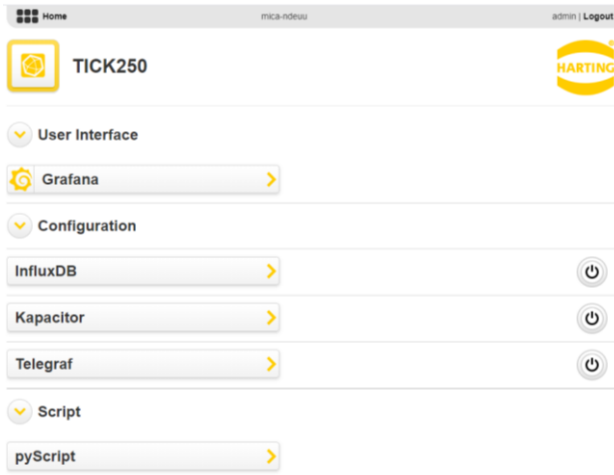
4 Basic Container Operations

Right clicking the TIGK Container tile opens the context menu. Press *Options* to access the following functions:

	<ul style="list-style-type: none">• <i>Start App / Stop App</i>: Starts or stops the container.• <i>Options</i>: Expands or hides the basic container functions.• <i>Settings</i>: Shows the container information and lets you configure the IPv4 / IPv6 settings, an Additional Network Interface and the Single Sign On Mode.• <i>Duplicate</i>: Duplicates the container on your MICA.• <i>Export</i>: Exports the container to your PC or a network drive. All configurations you set will be kept.• <i>Merge</i>: Overwrites the reset point of the Container with its current configuration.• <i>Reset</i>: Resets the configuration of the TIGK Container to the last reset point (factory default if no merge was executed before).• <i>Delete</i>: Deletes the Container including all its configuration and user data.
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5 Using the TIGK Container

The TIGK Container offers a lightweight interface to the TIGK stack. Configuration of InfluxDB, Kapacitor, and Telegraf uses the standard TIGK configuration files.

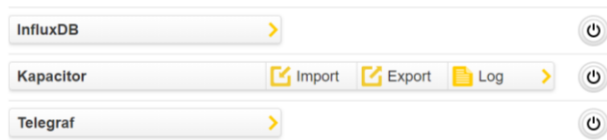


To open the Grafana dashboard, expand the User Interface section and click the Grafana button. The default user name and password is admin/admin. We strongly recommend that you change the password after the first log in.

To start InfluxDB, Kapacitor, and Telegraf, click the On/Off buttons.

You can view, import and export configuration files by hovering over the respective buttons in the Configuration section.

The logs of the TIGK components are available by hovering over the respective button and choosing Log from the expanded menu.



Additional Python scripts for Kapacitor can be imported and exported by hovering over the pyScript button.

For documentation on the individual components, please see the websites of the respective projects:

- <https://grafana.com/docs/grafana/>
- <https://docs.influxdata.com/>