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HARTING HAIIC MICA Busybox Container v1.1.0_r

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This application note explains how to use the Busybox Container v1.1.0_r.

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1 Busybox Container Basics

1.1 Overview

The Busybox Container is based on Busybox v1.22.1.

It is the smallest and most basic development container.

Web Icons App.png and Header.png can be found under /META/web_icons. In case new Web Container Icons are desired one can simply replace these files.

The Busybox Container is suited for productive purposes.
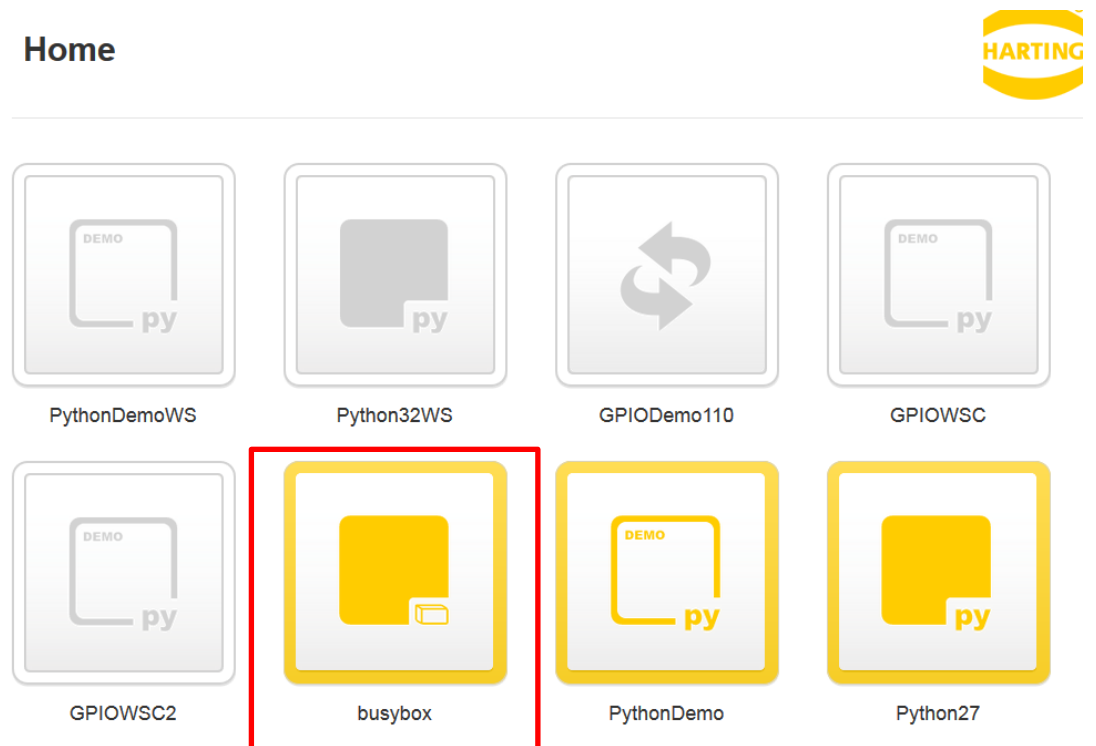
1.2 Installation

Figure 1: MICA Homescreen Including a highlighted Busybox Container

The installation and configuration routine of the Busybox Container follows the standard routine as provided by the IIC MICA and can be found in the "MICA Programming Guide".

Connect your MICA to a webbrowser of your choice

Using Windows, you can access your MICA via https://devicename

If your host is running an mdns application, you can access your MICA also via https://devicename.local.

You have to accept a Security Certificate. After Container installation, you have to configure network settings via Firmware -> Settings -> Network in order to access the Container via SSH.

2 Use of the Busybox Container

The Busybox container can be accessed over ssh using e.g. Putty. The user name and password is root\root. You can then use Busybox and pip.

When you start the container WebGUI, you see the following:

Waiting for web server...
If no web server is configured for this container, please refer to the documentation on how to configure a web server.

A httpd webserver can be configured on the Busybox container and the WebGUI can be accessed over https.

Access the busybox container via ssh. Under etc/init.d you find a start script for httpd. Create a softlink under rc.d by executing

cd /etc/rc.d
ln -s ../init.d/<script> <link_name>

The link_name should start with a number describing the place in line of start scripts where it is executed.
Add an index.html file to the directory /var/www and modify it to create a container WebGUI.
Restart the busybox container.
The WebGUI can be accessed from a client via https.

3 Version History

Version 1.1.0_r

- ldconfig added

Version 1.0.0