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**Installation Manual**

**Authors**Robert Kettler  
Daniel Weidle

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# Version History

|  |  |  |
| --- | --- | --- |
| **Version** | **Date** | **Description** |
| 0.1 | 13.06.2016 | Initial |
| 0.2 | 17.06.2016 | Added reindex Process |
| 1.0 | 17.06.2016 | Fixed typos after review |

# Introduction

This document includes software installation and maintenance instruction for Metis to enable system administrators installing and maintaining the software.

Software Installation and Maintenance depends on the destinations operating system. This is caused by the usage of Docker. While Linux includes native Docker support, Windows and Mac need tools like Docker Toolbox or Boot2Docker (Deprecated).

Administrators who are responsible for Software Installation and Maintenance should be familiar with the Docker ecosystem.

# System requirements

To install and run Metis software your system must meet the following minimum requirements.

## Recommended hardware requirements

Table 1: Recommended system requirements

|  |  |
| --- | --- |
|  | **Recommended requirements** |
| **Operating system** | Windows 7, Linux or MacOS |
| **CPU** | Core 2 Duo at 2,6 GHz with VT-X |
| **Memory** | 2 GB RAM |
| **Hard drive** | At least 5 GB free hard disk space |
| **Network** | 1 Gbit/s |
| **Internet** | Metis requires internet access to download the Docker images. After the build is done, internet connection isn’t required anymore. |

## Software requirements

Metis requires at least the following software. Make sure that virtualization is enabled in the system’s BIOS. For Windows 8/8.1/10 open Task Manager, go to Performance tab - under CPU you should see virtualization enabled.

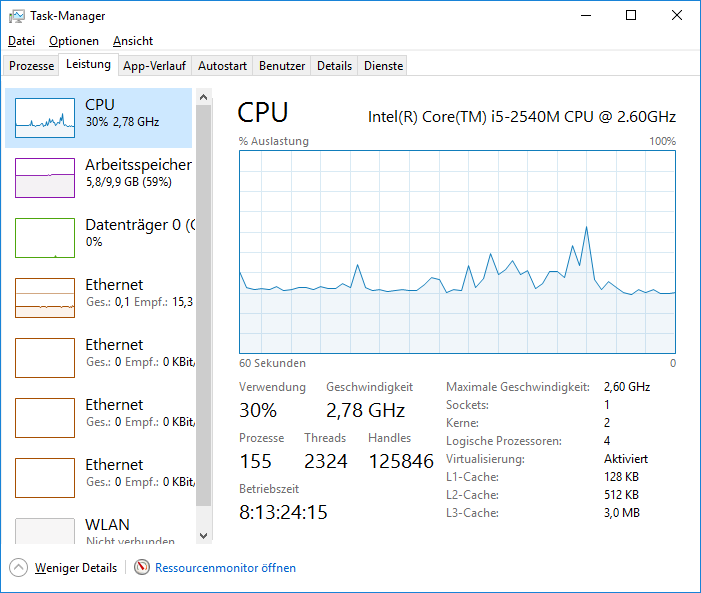


Figure 1: Check virtualization support

### Windows / Mac prerequisites

If you run Metis in a Windows or Mac environment, the Docker Toolbox version 1.11.1 or later must be installed.

### VirtualBox port forwarding

In some cases there can be a problem with the Docker port forwarding script. In this case you need to set them manually. To do so follow these instructions.

Open VirtualBox and select the virtual machine used for docker (called “default” in most cases) by clicking with you left mouse button on it. Afterwards click on “Ändern”. This process is shown in Figure 2: VirtualBox main dialogue.

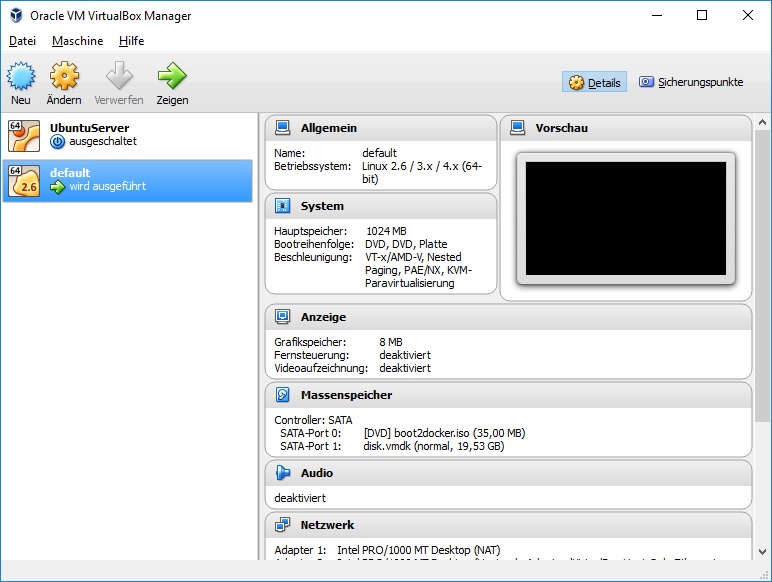


Figure 2: VirtualBox main dialogue

If done so select “Netzwerk” and click on “Port-Weiterleitung” to open the port forwarding settings.

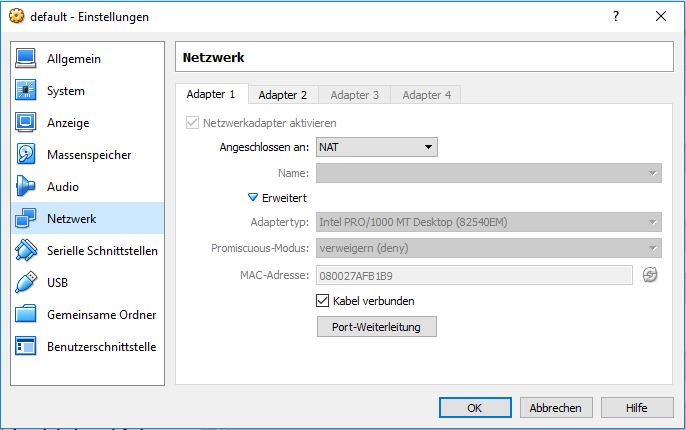


Figure 3: Settings dialogue

In Figure 4: Port forwarding settings dialogue you need to add a new forwarding rule. This is done by clicking on the “add rule” button. A new row appears. In this row you need to enter the “Name” (Metis in our case), the “Host-Ip” and “Host-Port” as well as the “Gast-Port”. The application runs on port “8080”, this is the “Gast-Port” needed. The “Host-Port” can be any port you want.

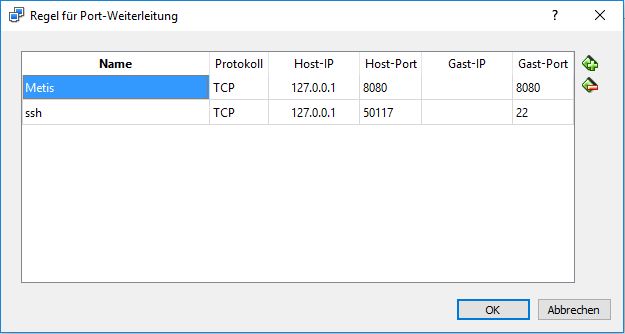


Figure 4: Port forwarding settings dialogue

# Download and install

Following general instructions have to be executed:

* Ensure there is at least 5 GB of free disk space for downloaded installation files.
* Specify the installation directory, use only alphanumeric characters and do not type any special characters or symbols. Including special characters may leads to an installation failure.
* Download the latest stable release from the Kanbananas GitHub repository (https://github.com/kanbanana/knowledgebase/releases)
* Unpack the downloaded release into the earlier specified installation directory.

**Windows / MacOS**

* Start Docker Toolkit and navigate to installation directory.
* Run “sh install.sh”. This script will download the needed images, provision them and start the application. By default, Metis listens on port 8080. This port can be changed by changing the port in the install.sh file.

**Linux**

* Open a Terminal session and navigate to the earlier specified installation directory.
* Run “sh install.sh”. This script will download the needed images, provision them and start the application. By default, Metis listens on port 8080. This port can be changed by changing the port in the install.sh file.

# Reindexation Process

In order to reindex files uploaded to the system, the web interface provided by Open-SearchServer is used. The web interface can be accessed over <URL>:8080/admin/oss on the start page, chose the index you want to reindex:

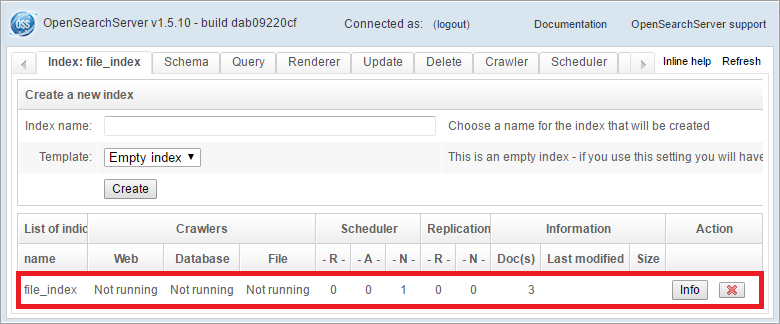


Figure 5: Webinterface with created index

As first step of the reindexation process all files are deleted from the file crawler. In order to do that, go to Crawler -> Files -> File Browser. Here query the documents you would like to delete from the file crawler (probably all, so leave the query empty). Then chose the “Delete Selection” command and click “Go”:

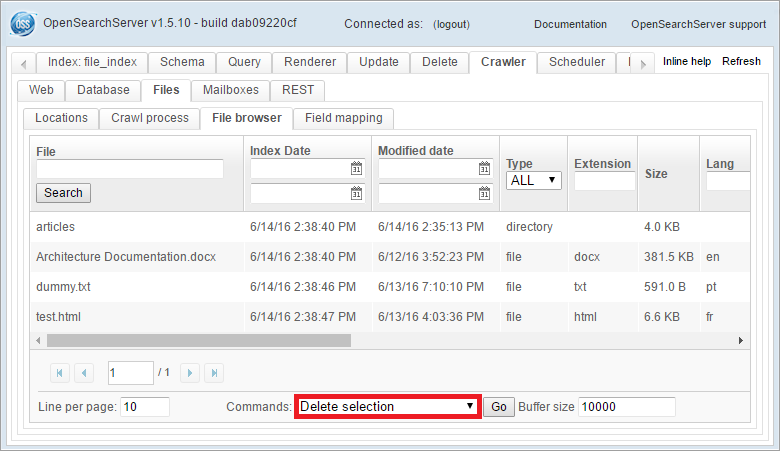


Figure 6: Files included in selected index

After respective files are deleted from the file crawler, the index itself can be truncated. In order to do that, go to Runtime -> Commands and click the Truncate option “Delete All”. Afterwards click “Reload” to make sure the index has successfully been truncated (status changes to “0 documents”).

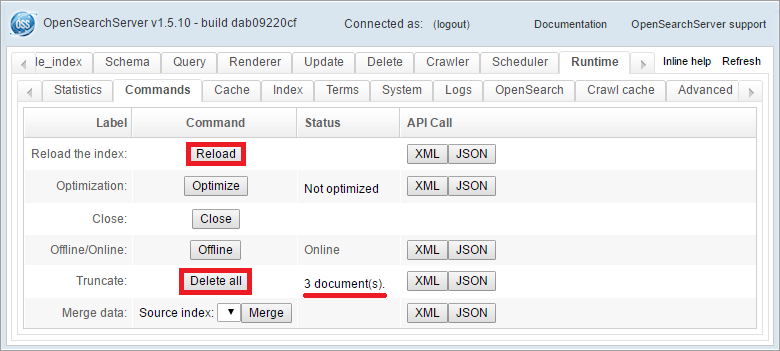


Figure 7: Available commands on index

The file crawler and index are now cleaned and can be filled again. For this purpose, the file crawler needs to be executed. Go to Crawler -> Files -> Crawl Process and run the file crawler once (make sure to not run it consecutively).

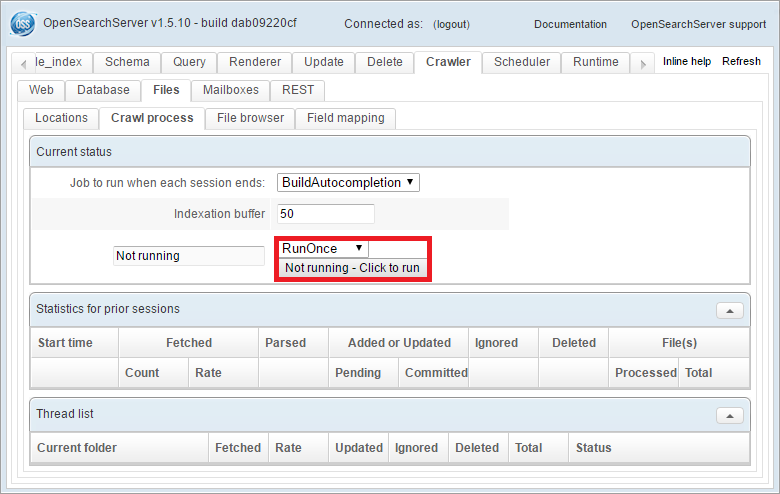


Figure 8: Webinterface to start the file crawler

Reindexation process has been completed, as soon as the file crawler terminates. All files in target directory have been added to the index at this point.