# Getting started ...



#### Welcome to MyOpenTrader ...

MyOpenTrader is an open-source complex event based trading engine. In the simplest way, users download & configure MOT, create their own strategy and start the engine. Trading happens automatically and "hopefully" the strategies do the rest.

### **System requirements:**

In order to use MyOpenTrader (MOT), you have to fulfil the following requirements:

- A database for storing the meta/data (currently only mysql is supported!)
- Java 1.7++

#### Optional:

- An Interactive Brokers Account, with its API accessible from where you intend to run MOT. (Development and Testing can be done with the embedded tick Generator)
- An ActiveMQ broker for message processing. (Use the embedded Apollo broker instead for all development & testing)

#### Installation

Make sure you properly install MyOpenTrader on your host (as outlined in the system requirements). More details on how to install each of the components can be found here:

- Configuring Interactive Brokers Traders Workstation
- Setting up ActiveMQ Broker
- Setting up the database

#### Starting MyOpenTrader

First of all, lets start the Embedded Message bus:

#### What is the Embedded Message Broker?

For your backtesting, it is important that you have the ability to replay all of your previous days ticks. MyOpenTrader has a built in functionality, that makes sure you can replay your previous days.

#### Starting / Stopping the Embedded Message Broker:

In your <MyOpenTraderBin/bin> folder, you will see the two scripts: runEmbeddedMessageBus.bat or .sh

Simply run this script to start the replayer.

```
To C\Windows\system32\cmd.exe -runEmbeddedMessageBus.bat

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```

#### **Configuring the Embedded Message Broker:**

The command line utility has no command line properties

Once the message bus is up & running, we can start publishing the first random ticks:

#### What is the Tick Generator?

MyOpenTrader includes a random tick generator, which can be used for development purposes or in case, there is no real live feed of market data available.

#### **Starting / Stopping the Tick Generator:**

In your <MyOpenTraderBin/bin> folder, you will see the two scripts: runTickGenerator.bat or .sh

Simply run this script to start the generator. The tickGenerator will spit out performance statistics with each 10k ticks being published.

```
C.Windows/system32kmd.exe - runTickGenerator.bat -r true -p 0

D:\Data\Github\myopentrader\MyOpenTraderBin\bin>runTickGenerator.bat -r true -p 0

***Starting new TickGenerator**

***Starting new TickGenerator**

***Starting new TickGenerator**

***Setting sum TickGenerator**

***Publishing performance such TickGenerator**

***Publishing performance such TickGenerator**

***Setting sum TickGenerator**

***Setting sum TickGenerator**

***Publishing performance such TickGenerator**

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```

#### **Configuring the Tick Generator:**

The command line utility has a couple of parameters, that you can pass into:

Flag	Used for:			
-c	(Optional) Specify a configuration directory (use the/conf directory as default)			
-s	(Optional) Specify a list of symbols to generate ticks for (default is: STOCK#1, STOCK#2, STOCK#3")			
-p	(Optional) Pause factor. Forces the generator to pause for x msecs after each tick (default is 500)			
-m	(Optional) Set the max volatility of the tick prices (defaults to 18)			
-t	(Optional) Define a max count of ticks you want to publish (default: unlimited or until stopped)			

-r	(Optional) Set the "replay" flag. Replayed ticks are NOT written to the database - useful when backtesting your strategies (Default: false)
-h	(Optional) Display the command line help functionality

And last, but surely not least, we need to process all of the incoming ticks. Lets start the MyOpenTrader Core Engine:

## What is the MyOpenTrader Core Engine?

As you may have learnt, myOpenTrader consists out of 3 parts, the feeder, the core engine and the web application. Each part can be started individually for testing / debugging purposes.

#### **Starting / Stopping the MyOpenTrader Core Engine:**

In your <MyOpenTraderBin/bin> folder, you will see the two scripts: runMyOpenTraderCore.bat or .sh

Simply run this script to start the engine

```
cs C:\Windows\system32\cmd.exe -runMyOpenTraderCore.bat -c ./conf-e ALL

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```

#### **Configuring the MyOpenTrader Core Engine:**

The command line utility has a couple of parameters, that you can pass into:

Flag	Used for:
-c	(Optional) Specify a configuration directory (use the/conf directory as default)
-е	(Required) Specify which executor to run (see Executor for more details) - default is ALL
-h	(Optional) Display the command line help functionality

Et voila - the engine is up & running, processing all of your ticks. You are ready to have a go at developing your first strategies.

Additional Documentation can be found here:

- What is MyOpenTrader?
- Getting started ...
- System requirements
- Installation Guide
- Usage Guide
- Development Guide
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