

## Choosing the Register

To begin, JBoss must be moved or copied to the register in which it is to be run. By default, TIM Solutions has chosen for Windows (top) and Unix (bottom)

```
C:\tim\
```

```
/usr/local/tim/
```

as the installation and operation location; however, the path can be chosen freely. The following instructions assume that a Windows server is being used, and the paths must be adapted accordingly in the case of use within the Unix system.

## Installing the Necessary Module

Important

In order to activate all of the modules necessary for TIM, the modules folder in JBoss must be expanded. The necessary modules can be seen [here](#). While doing this, the structure and content must be adopted by the JBoss directory. The path for this is

```
C:\tim\jboss<version>\standalone\modules\
```

Lastly, the **standalone.xml** must be adopted, which can be taken from [this directory](#). This XML-file must be copied into the

```
C:\tim\jboss<version>\standalone\configuration\
```

directory, whereby the existing standalone.xml is overwritten. Please save the original **standalone.xml** in order to allow the initial settings to be restored.

Please ensure that the correct standalone.xml for the specific JBoss is loaded!

## JBoss Test Run (Optional)

By double-clicking on the “standalone.bat” in the “bin” directory, JBoss can be started in test

mode in order to assure booting procedures are correct. In the last line of the input prompt, the

```
10:07:03,894 INFO [org.hornetq.core.server] (ServerService Thread Pool -- 56) HQ221003: trying to deploy queue jms.queue.ExpiryQueue
10:07:03,899 INFO [org.jboss.as.messaging] (ServerService Thread Pool -- 56) JBA5011601: Bound messaging object to jndi name java:/jms/queue/ExpiryQueue
10:07:03,911 INFO [org.jboss.as.messaging] (ServerService Thread Pool -- 60) JBA5011601: Bound messaging object to jndi name java:/ConnectionFactory
10:07:03,913 INFO [org.jboss.as.messaging] (ServerService Thread Pool -- 59) JBA5011601: Bound messaging object to jndi name java:/jboss/exported/jms/RemoteConnectionFactory
10:07:03,914 INFO [org.hornetq.core.server] (ServerService Thread Pool -- 61) HQ221003: trying to deploy queue jms.topic.TestTopic
10:07:03,918 INFO [org.jboss.as.messaging] (ServerService Thread Pool -- 61) JBA5011601: Bound messaging object to jndi name java:/jms/topic/TestTopic
10:07:03,919 INFO [org.jboss.as.messaging] (ServerService Thread Pool -- 61) JBA5011601: Bound messaging object to jndi name java:/jboss/exported/jms/topic/TestTopic
10:07:03,919 INFO [org.hornetq.core.server] (ServerService Thread Pool -- 57) HQ221003: trying to deploy queue jms.queue.ProcessInstanceQueue
10:07:03,920 INFO [org.jboss.as.messaging] (ServerService Thread Pool -- 57) JBA5011601: Bound messaging object to jndi name java:/jboss/exported/jms/queue/ProcessInstanceQueue
10:07:03,920 INFO [org.hornetq.core.server] (ServerService Thread Pool -- 58) HQ221003: trying to deploy queue jms.queue.DLG
10:07:03,921 INFO [org.jboss.as.messaging] (ServerService Thread Pool -- 58) JBA5011601: Bound messaging object to jndi name java:/jms/queue/DLG
10:07:03,946 INFO [org.jboss.as.connector.deployment] (MSC service thread 1-10) JBA5010406: Registered connection factory java:/jmsXA
10:07:03,970 INFO [org.hornetq.ra] (MSC service thread 1-10) HornetQ resource adaptor started
10:07:03,971 INFO [org.jboss.as.connector.services.resourceadapters.ResourceAdapterActivatorService$ResourceAdapterActivator] (MSC service thread 1-10) JAB20002: Deployed: file://
10:07:03,972 INFO [org.jboss.as.connector.deployment] (MSC service thread 1-2) JBA5010401: Bound JCA ConnectionFactory [java:/jmsXA]
10:07:03,972 INFO [org.jboss.as.messaging] (MSC service thread 1-1) JBA5011601: Bound messaging object to jndi name java:/jboss/DefaultJMSConnectionFactory
10:07:04,185 INFO [org.jboss.as] (Controller Boot Thread) JBA5015961: Http management interface listening on http://127.0.0.1:9990/management
10:07:04,185 INFO [org.jboss.as] (Controller Boot Thread) JBA5015951: Admin console listening on http://127.0.0.1:9990
10:07:04,186 INFO [org.jboss.as] (Controller Boot Thread) JBA5015874: WildFly 8.1.0.Final "Kerby" started in 3015ms - Started 229 of 277 services (94 services are lazy, passive or on-demand)
```

booting procedure is receipted with the line:

Started in <Time>

## Customizing the Standalone.xml

In the Standalone.xml, the following parameters can be customized:

- Databank connection
- Log-in settings
- Port settings
- IP connection settings

## Customizing the Databank Connection

In order to enter the correct databank, the value **doorisPortalDB** is searched for within the standalone.xml. The databank, port, user, and password must be stored in this area. This exemplary case deals with a databank named **tim\_v41**, which runs on the same host as TIM (**localhost**) and uses port **3306**.

If MSSQL or Oracle are being used, the **jni-name** and the **pool-name** within **doorisPortalDB** must be changed appropriately in the respective connection. Because the values must be unique and TIM always uses the connection named **doorisPortalDB**, the connections that are no longer being used must be renamed.



## Customizing the Logging Settings

TIM and the associated JBoss are always delivered with a standard logging system. In order to change these settings, specific know-how is necessary. Some basic settings can be taken from [this page](#). In the case of further questions, TIM support can be contacted via support@tim-solutions.de.

## Port Settings

The port is always determined by the port value (zB  $\${jboss.http.port:8080}$  + Offset). In the standard delivery package, the value used is 8080 + 0

```
<socket-binding-group name="standard-sockets" default-interface="public" port-offset="${jboss.socket.binding.port-offset:0}">
  <socket-binding name="management-http" interface="management" port="${jboss.management.http.port:9990}" />
  <socket-binding name="management-https" interface="management" port="${jboss.management.https.port:9993}" />
  <socket-binding name="ajp" port="${jboss.ajp.port:8009}" />
  <socket-binding name="http" port="${jboss.http.port:8080}" />
  <socket-binding name="https" port="${jboss.https.port:8443}" />
  <socket-binding name="jaccorb" interface="unsecure" port="3529" />
  <socket-binding name="jaccorb-ssl" interface="unsecure" port="3529" />
  <socket-binding name="messaging-group" port="0" multicast-address="${jboss.messaging.group.address:231.7.7.7}" multicast-port="4712" />
  <socket-binding name="txn-recovery-environment" port="4712" />
  <socket-binding name="txn-status-manager" port="4713" />
  <outbound-socket-binding name="mail-smtp">
    <remote-destination host="localhost" port="25" />
  </outbound-socket-binding>
</socket-binding-group>
```

Offset, whereby the JBoss runs from port 8080. In order to customize the ports, one of the two values must be changed. These changes should only be made by users with the required know-how!

Additionally, the following configurations must be changed if **CBA** is being used:

- [tim-cba.properties](#)
- [cba.properties](#)
- [dashboard.properties](#)

## IP Connection Customization

The IP address use to direct JBoss can also be customized in the Standalone.xml. For security reasons, this is bound to 127.0.0.1 by default and should only be changed by users equipped with the appropriate instructions or know-how!

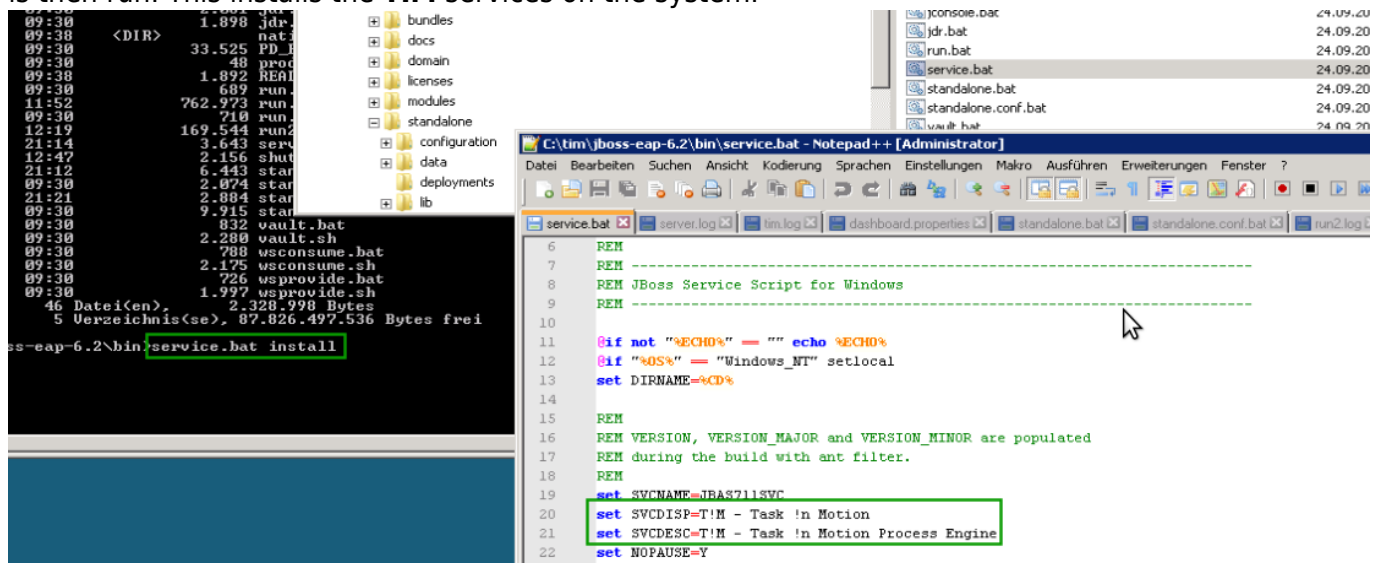
```
<interface name="management">
  <socket-address name="management">
    <socket-address value="JBoss bind address management: 127.0.0.1"/>
  </socket-address>
</interface>
<interface name="public">
  <socket-address name="public">
    <socket-address value="JBoss bind address 127.0.0.1"/>
  </socket-address>
</interface>
<interface name="unsecure">
  <socket-address name="unsecure">
    <socket-address value="JBoss bind address unsecure: 127.0.0.1"/>
  </socket-address>
</interface>
</socket-binding-group>
<socket-binding-group name="standard-sockets" default-interface="public" port-offset="JBoss socket binding port offset: 0"/>
<socket-binding name="management-http" interface="management" port="JBoss management http port: 8080"/>
```

## Configuration and Installation as a Windows Service

In order to install a Windows service, the [Native JBoss Packet](#) must first be downloaded. This must then be unpacked and be copied into the JBoss directory. In the input requests, the command

```
service.bat install
```

is then run. This installs the **TIM** services on the system.



**WARNING!** For Windows 7, Windows Server 2008 and above, the input prompt must be carried out as the Administrator (Right-click - Execute as Administrator).

If problems or error messages occur, TIM support can be contacted under [support@tim-solutions.de](mailto:support@tim-solutions.de).

## Test the Connection to JBoss

If the service is started or run.bat is executed, the JBoss should be accessible under the following address:

**<http://Computername:8080/>**

After calling on this page, the TIM [log-in mask](#) should appear. If this is not the case, please contact TIM support at **[support@tim-solutions.de](mailto:support@tim-solutions.de)** and send the corresponding [log files](#)

### ! Caution Firewall

By default, Windows firewall is activated on the server and must either be unlocked, or completely deactivated.

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