

COS30018 – Intelligent Systems

JADE Administration control

When starting a new JADE runtime, you will see an output similar to that below.

```
Command Prompt - java -cp jade\lib\jade.jar jade.Boot -gui
C:\Users\W0 GO BE\Downloads\JADE-all-4.5.0\JADE-bin-4.5.0>java -cp jade\lib\jade.jar jade.Boot -gui
Aug 15, 2022 1:34:53 AM jade.core.Runtime beginContainer
INFO: -----
This is JADE 4.5.0 - revision 6825 of 23-05-2017 10:06:04
downloaded in Open Source, under LGPL restrictions,
at http://jade.tilab.com/
-----
Aug 15, 2022 1:34:53 AM jade.imtp.leap.LEAPIMTPManager initialize
INFO: Listening for intra-platform commands on address:
- jicp://192.168.20.98:1099

Aug 15, 2022 1:34:53 AM jade.core.BaseService init
INFO: Service jade.core.management.AgentManagement initialized
Aug 15, 2022 1:34:53 AM jade.core.BaseService init
INFO: Service jade.core.messaging.Messaging initialized
Aug 15, 2022 1:34:53 AM jade.core.BaseService init
INFO: Service jade.core.resource.ResourceManagement initialized
Aug 15, 2022 1:34:53 AM jade.core.BaseService init
INFO: Service jade.core.mobility.AgentMobility initialized
Aug 15, 2022 1:34:53 AM jade.core.BaseService init
INFO: Service jade.core.event.Notification initialized
Aug 15, 2022 1:34:53 AM jade.mtp.http.HTTPServer <init>
INFO: HTTP-MTP Using XML parser com.sun.org.apache.xerces.internal.jaxp.SAXParserImpl$JAXPSAXParser
Aug 15, 2022 1:34:53 AM jade.core.messaging.MessagingService boot
INFO: MTP addresses:
http://192.168.56.1:7778/acc
Aug 15, 2022 1:34:53 AM jade.core.AgentContainerImpl joinPlatform
INFO: -----
Agent container Main-Container@192.168.20.98 is ready.
-----
```

That is the host (typically the local host) and the port (1099 by default) where the Main Container is listening to accept other containers joining the platform.

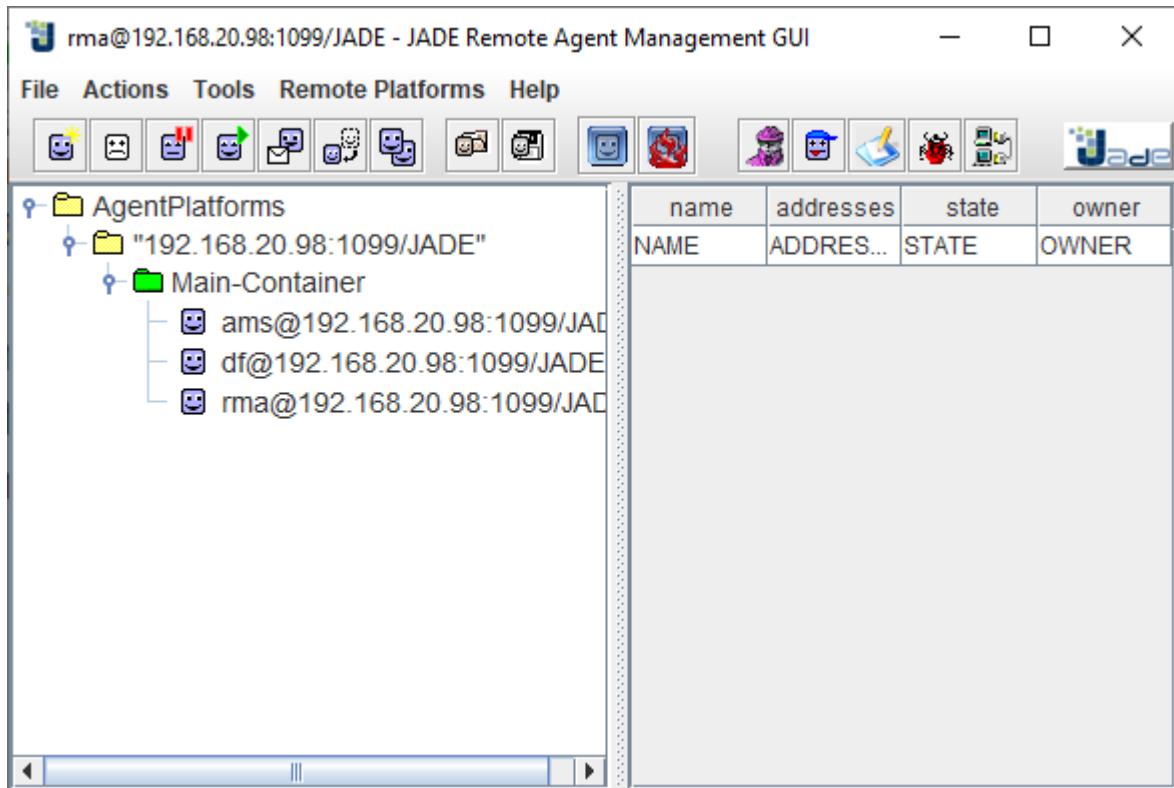
It is possible to make JADE use a different port by using the `-local-port <a-port>` option (which we used in week 2 tutorial to create another Platform on the same computer). For instance to make the Main Container accept incoming connections from other containers on port 1111 it would be sufficient to type the command line below.

```
java -cp lib\jade.jar jade.Boot -gui -local-port 1111
```

Similarly it is possible to make JADE use a different host name/address with respect to that read from the underlying network stack by using the `-local-host <host-name-or-address>` option.

```
java -cp lib\jade.jar jade.Boot -gui -local-host Computer
```

Since we specified the `-gui` option, the JADE Management Console depicted in the figure below should also appear.



In the left part of the Management Console you can see a tree showing that there is a **Platform** called <Main-Container-host>:<Main-Container-port>/JADE (note that, by the fact we launched a Main Container, we actually created a Platform) that is composed of a single Container called **Main Container**, that, on its turn, contains three agents:

- The **ams** activated by default since we launched a Main Container
- The **df** activated by default since we launched a Main Container
- The **rma** (Remote Management Agent) i.e. the agent implementing the JADE Management Console itself

Looking at agent names we see that they have the form:

```
<local-name>@<platform-name>
```

It is possible to set a different platform name by using the `-platform-id <a-platform-name>` configuration option as in the command line below.

```
java -cp lib\jade.jar jade.Boot -gui -platform-id MyPlatform
```

If we did that, agents would have been called `ams@MyPlatform`, `df@MyPlatform` and `rma@MyPlatform` respectively.