

How to configure a JobScheduler Master and Agent to work together

- [Scope](#)
- [JobScheduler and Agent](#)
- [JobScheduler Agent configuration](#)
- [Process Class configuration](#)
- [Job configuration](#)

Scope

- This article explains configuration of the Classic JobScheduler Agent
FEATURE AVAILABILITY ENDING WITH RELEASE 1.10
- For configuration of the [JobScheduler Universal Agent](#) see [JobScheduler Universal Agent - Installation & Operation](#)
FEATURE AVAILABILITY STARTING FROM RELEASE 1.10

JobScheduler and Agent

- The architecture for JobScheduler and Agents forces some prerequisites.
- Make sure that the JobScheduler can communicate with the *Agent JobScheduler* and vice versa.

JobScheduler Agent configuration

For this, edit the `./config/scheduler.xml` of the *Main JobScheduler*:

```
...
<security ignore_unknown_hosts="yes">
  ...
  <allowed_host host="[host or IP of the Agent JobScheduler]" level="all"/>
</security>
...
```

and edit the `./config/scheduler.xml` of the JobScheduler Agent :

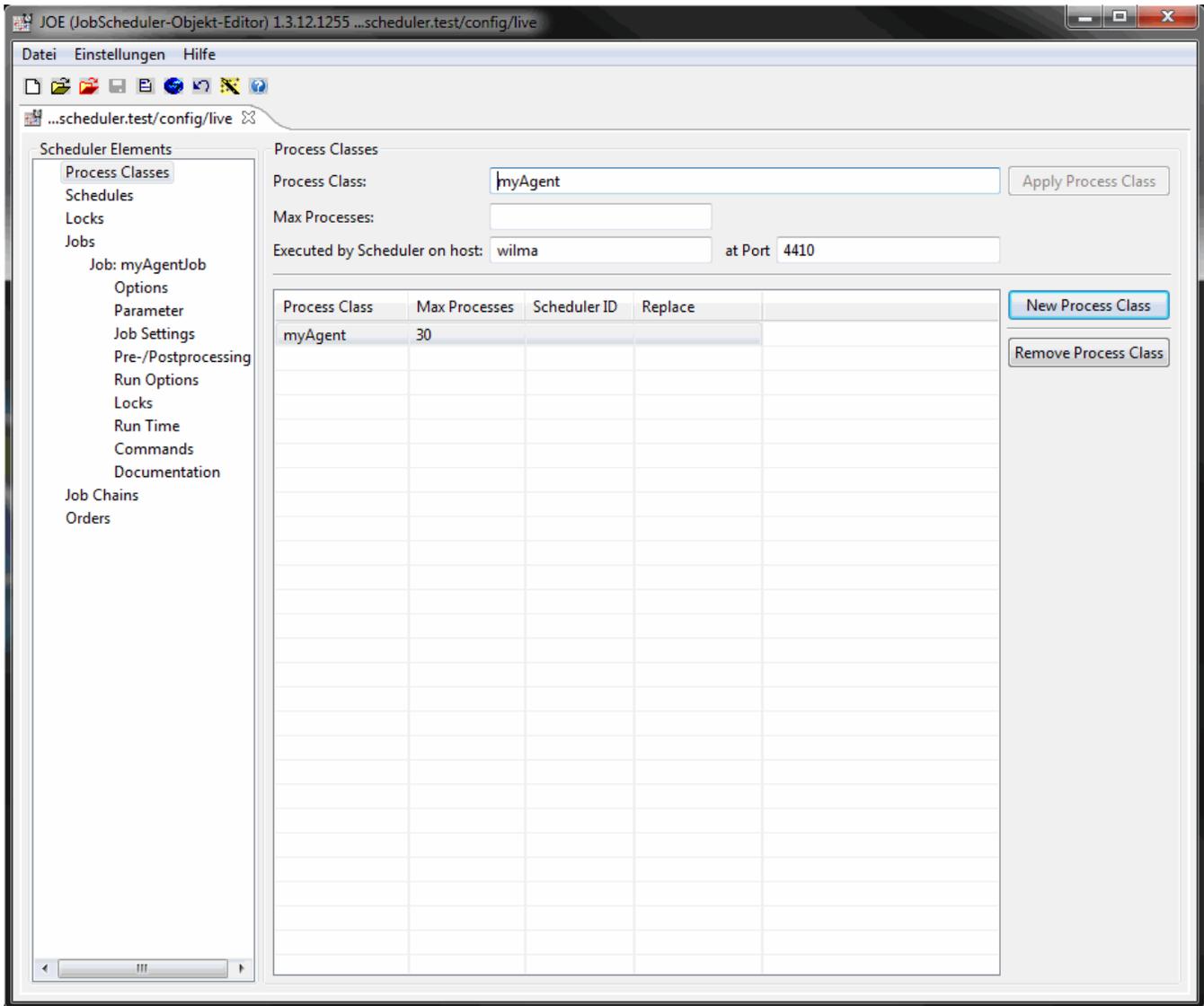
```
...
<security ignore_unknown_hosts="yes">
  ...
  <allowed_host host="[host or IP of the Main JobScheduler]" level="all"/>
</security>
...
```

- Make sure that no firewall restricts the communication.
- See also http://www.sos-berlin.com/doc/en/scheduler.doc/remote_execution.xml

Process Class configuration

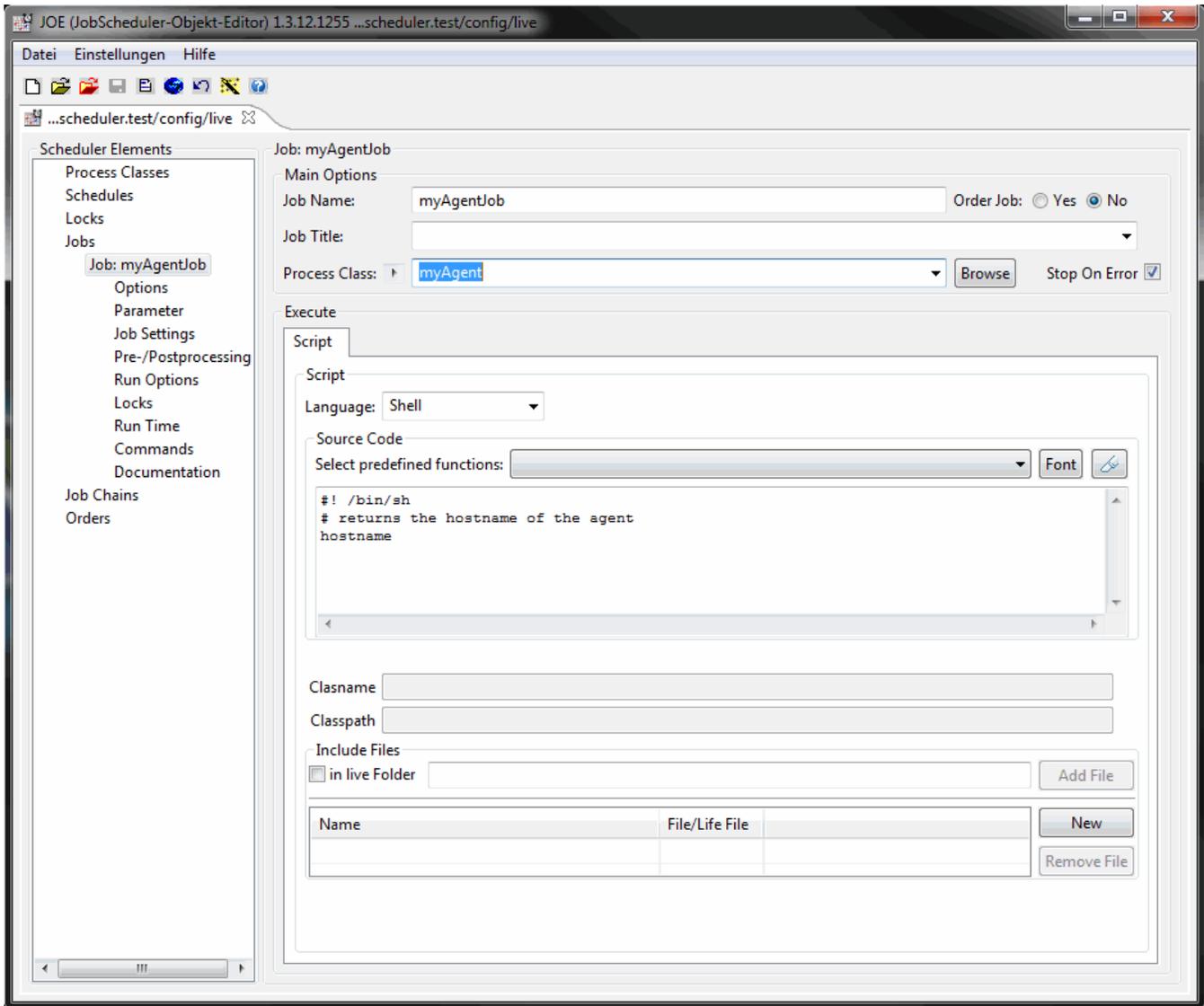
Now you need a *Process Class* and a Job in the Hot Folder (`./config/live`) of the JobScheduler to test the JobScheduler Agent.

In our example, let the JobScheduler Agent's hostname be `wilma` and its port `4410`:



- open *JOE - JobScheduler Object Editor* (JobScheduler Object Editor)
Use the shortcut *Ctrl-D* to open the *Hot Folder* in *JOE*. You open this dialog from the menu *File->Open Hot Folder* or with the red folder icon. The Hot Folder should be already selected, otherwise please navigate to `./config/live`.
- Create the process class.
Click on *Process Class* in the left tree of the JobScheduler elements.
With *New Process Class* on the right hand side you create a process class which is stored with *Apply Process Class* after having entered the name `myAgent`, the JobScheduler Agent's host and port will be `wilma:4410`.
A file `./config/live/myAgent.process_class.xml` is created with the following content:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<process_class max_processes="30" remote_scheduler="wilma:4410"/>
```



Job configuration

- Create the job that uses the above process class.
- Click on *Jobs* in the left tree of the JobScheduler elements.
- With *New Standalone Jobs* on the right hand side you create a new job in the list of the jobs and in the left tree. Select it to open an empty job configuration element.

Enter in the field *Job Name* e.g. myAgentJob and in the *Source Code* text area the lines:

```
#!/bin/sh
# returns the hostname of the agent
hostname
```

- In order to have this job executed on the JobScheduler Agent, the job should be assigned the above process class.
- Assign the field *Process Class* the above myAgent process class.
- You store this configuration with the shortcut *Ctrl-S* or with the *File->Save* function.

A file `./config/live/myAgentJob.job.xml` is created with the content:

```
<?xml version="1.0" encoding="ISO-8859-1"?>

<job process_class="myAgent">
  <script language="shell">
    <![CDATA[
#! /bin/sh
# returns the hostname of the agent
hostname
    ]]>
  </script>
  <run_time/>
</job>
```

- The value in the *process_class* attribute of the *job* element should be assigned a relative path or absolute path to an existing process class.
 - An absolute path starts at the `./config/live` folder.
- In the above example
 - a relative path is used and the job finds the *process_class* in the same folder.
 - you could use the absolute path `<job process_class1. "/myAgent">` as well.
- For example, if the job is stored in `./config/live/myProject/myAgentJob.job.xml` then you can use `<job process_class"/myAgent">` or `<job process_class="./myAgent">`.
- Start the job `myAgentJob` in the [How to configure JOC - an overview](#) and check the task's log. You should see a line like this:

```
2011-10-10 15:26:47.237 [info] wilma
```