

Configuring Build Agent Startup Properties

In TeamCity a `build agent` contains two processes:

- Agent Launcher — a Java process that launches the agent process
- Agent — the main process for a Build Agent; runs as a child process for the agent launcher

Whether you run a build agent via the `agent.bat | sh` script or as a Windows service, at first the agent launcher starts and then it starts the agent.



You do not need to specify any of the options unless you are advised to do by the TeamCity support team or you know what you are doing.

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Agent Properties

For both processes above you can customize the final agent behavior by specifying system properties and variables for the agent to run with.

Build Agent Is Run Via Script

Before you run the `<Agent Home>\bin\agent.bat | sh` script, set the following environment variables:

- `TEAMCITY_AGENT_MEM_OPTS` — Set agent memory options (JVM options)
- `TEAMCITY_AGENT_OPTS` — additional agent JVM options

Build Agent Is Run As Service

In the `<Agent Home>\launcher\conf\wrapper.conf` file, add the following lines (one per option):

```
wrapper.app.parameter.<N>
```



- You should add additional lines before the following line in the `wrapper.conf` file:

```
wrapper.app.parameter.N=jetbrains.buildServer.agent.AgentMain
```

- Please ensure to re-number all the lines after the inserted ones.

Agent Launcher Properties

It's rare that you would ever need these. Most probably you would need affecting main agent process properties described above.

Build Agent Is Run Via Script

Before you run the `<Agent Home>\bin\agent.bat | sh` script, set the `TEAMCITY_LAUNCHER_OPTS` environment variable.

Build Agent Is Run As Service

In the <Agent Home>\launcher\conf\wrapper.conf file, add the following lines (one per option, the N number should increase):

```
wrapper.java.additional.<N>
```



Make sure you re-number all the lines after the inserted ones.

See also:

[Concepts: Agent Home Directory](#)

[Administrator's Guide: Configuring TeamCity Server Startup Properties](#)