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# Chapter 1. Execute JOnAS as a Windows Service

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This document describes the procedures necessary to run JOnAS as a system service on Microsoft Windows platforms.

## 1.1. Instructions

The procedure uses the Tanuki Java Service Wrapper open source project which must be downloaded and installed separately.

### 1.1.1. Download and Install Apache ANT

1. Download Apache ANT [<http://ant.apache.org/>] version 1.7.1 or later.
2. Unzip the package to a directory in the local filesystem.
3. Set `ANT_HOME` environment variable to the root directory for Apache ANT.

For example, if the package for ANT version 1.7.1 is unzipped into `C:\Program Files`, then set `ANT_HOME = C:\Program Files\apache-ant-1.7.1`

4. Add `%ANT_HOME%\bin` to your `PATH` environment variable.

### 1.1.2. Download and Install Java Service Wrapper

1. Download Tanuki Java Service Wrapper [<http://wrapper.tanukisoftware.org/doc/english/index.html>] version 3.3.9 or later (the "Community Edition" is sufficient for executing JOnAS as a Windows Service).
2. Unzip the package to a directory in the local filesystem.
3. Set `WRAPPER_HOME` environment variable to the root directory for Java Service Wrapper.

For example, if the package for Wrapper version 3.3.9 is unzipped into `C:\Program Files`, then set `WRAPPER_HOME = C:\Program Files\wrapper-windows-x86-32-3.3.9`

### 1.1.3. Create the JOnAS Windows service

Before JOnAS can be run as a Windows service, it is necessary to create a Java Service Wrapper configuration file. Prior to executing the steps in this section, it is necessary to create a `JONAS_BASE` directory as described in the JOnAS Configuration Guide [[configuration\\_guide.html](#)].

1. Verify that JAVA\_HOME is set as a system environment variable.
2. Verify that JONAS\_ROOT, JONAS\_BASE and WRAPPER\_HOME environment variables are set.
3. Set %JONAS\_ROOT%\templates\windows\_service as the current directory.
4. Set environment variables required for JOnAS execution (see list below).
5. Execute `ant [-Djonas.name=<server_name>]`



### Note

The `-Djonas.name=<server_name>` parameter is optional. If not specified, the default server name is 'jonas'.

Once this is done, the `wrapper.conf` file inside your JONAS\_BASE will be filled with all launch options required by JOnAS.



### Note

Do not change the `wrapper.conf` file as it will be regenerated everytime you run the Apache ANT task. To put your own, personalized options, use the `wrapper_extra.conf` file in JONAS\_BASE instead.

## 1.1.4. Personalise JOnAS options

To add options to your JOnAS server running as a Windows service, modify the `wrapper_extra.conf` file in JONAS\_BASE.



### Note

Once this file is changed, you'll need to restart the JOnAS service to see the effects. You do not need to reinstall the service, though.

## 1.1.5. Test the JOnAS Windows service

After the %JONAS\_BASE% directory has been updated for use with Java Service Wrapper, the Windows service configuration can be tested by executing the command:

```
jonas ntservice console
```

Once you see that JOnAS is running, simply press CTRL + C to stop it.

## 1.1.6. Install the JOnAS Windows service

Once you're assured the Windows service is operational, install in onto Windows using the following command:

```
jonas ntservice install
```

## 1.1.7. Start the JOnAS Windows service

To start the JOnAS Windows service, you can use the Windows Services control panel item or launch the following command:

```
jonas ntservice start
```



### Note

By default, JOnAS will be started automatically each time Windows is started. After installing the service, it can be started manually to avoid the need to reboot Windows.

## 1.1.8. Stop the JOnAS Windows service

To stop the JOnAS Windows service, you can use the Windows Services control panel item or launch the following command:

```
jonas ntservice stop
```

## 1.1.9. Restart the JOnAS Windows service

To restart the JOnAS Windows service, you can use the Windows Services control panel item or launch the following command:

```
jonas ntservice restart
```

## 1.1.10. Uninstall the JOnAS Windows service

To uninstall the JOnAS Windows service, use the following command:

```
jonas ntservice uninstall
```



### Note

Do not re-create the JOnAS Windows service before uninstalling it; else JOnAS might lose the reference to the Windows service entry and therefore never manage to uninstall the service.