Creating an installation file for a Spring Service

# Tools needed

1. NSSM – Creating the service <https://nssm.cc/>
2. NSIS – Creating the installer <https://nsis.sourceforge.io/>
   1. ExecDos plugin – Running commands on the console through NSIS <https://nsis.sourceforge.io/ExecDos_plug-in>

# Setting up the project

## Maven

1. Make sure in the pom.xml file, you specify the packaging as <packaging>jar</packaging>
2. Package the app using mvn clean package, and copy the created jar file to the installer creation folder

# Creating the service

While you do not need to do this manually, as this can be handled with the installer, these are some of the commands you can use with nssm. For ­*most* extents and purposes, these should suffice.

If nssm.exe is not in the folder your terminal is currently in, replace “nssm” with the path to nssm.exe like so “"D:\Tools and Misc\nssm"”

nssm install "NAME GOES HERE" "PATH TO EXECUTABLE GOES HERE" PARAMS\_HERE

nssm start "NAME GOES HERE"

nssm stop "NAME GOES HERE"

nssm restart "NAME GOES HERE"

nssm status "NAME GOES HERE"

nssm remove "NAME GOES HERE"

nssm remove "NAME GOES HERE" confirm

# Creating the installer

You can use NSIS to create an installer by writing a script. You can install the NSIS extension in VSC to help while writing it.

Please include this header so that you can use the modern NSIS UI: !include MUI2.nsh

Name "Devourin Printing" ; The name shown during the installation process  
OutFile "devourin\_printing\_installer.exe" ; The name of the executable created  
RequestExecutionLevel admin ; Can be 'user', 'highest' or 'admin'  
InstallDir "$PROGRAMFILES64\Devourin\" ; The default installation directory

You can use ExecDos to run commands through the installer. There are other ways to do this, but ExecDos will keep the execution level.

ExecDos::exec /TIMEOUT=2000 '"$InstDir\nssm" install "Devourin Printing" "$javaHome\bin\java.exe" -jar "$InstDir\Printing\devourin-printing.jar"'

Pop $0

Pop $0 saves the response of the ExecDos::exec command into $0. You can use this to check the return code of the command.

For more information on NSIS scripting, please check out the [NSIS](https://nsis.sourceforge.io/Docs/) and [NSIS MUI2](https://nsis.sourceforge.io/Docs/Modern%20UI%202/Readme.html) documentation.