

License Activation Scripts

Introduction

There are two license scripts available to assist in automatically activating or deactivating online server licenses. These scripts simplify the task greatly and help to alleviate the task of activating and deactivating license servers over the Internet, especially when updating the licenses. Note that offline servers *cannot* use these scripts, since the scripts assume that an Internet connection is available.

Using the scripts is straightforward, and should result in updated license servers with little problem. The only requirement is a PowerShell window Run as Administrator in a modern Windows environment. The steps are listed below.

Note: For use with online servers only. Offline servers must use the manual procedures outlined in QPS documentation. These scripts will *not* work for offline servers.

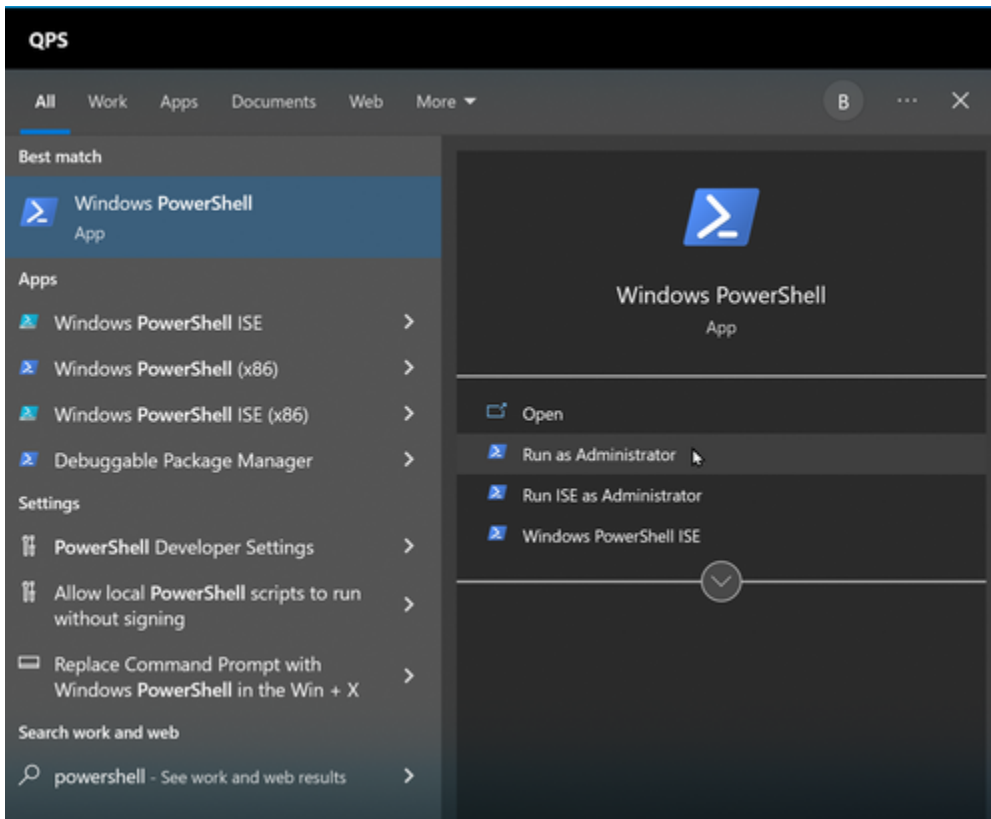
Finding the Scripts

The scripts are packaged with the QPS License Server package. To download the package, proceed to the QPS website, <http://www.qps.nl/>, select the Downloads section, then select any product to download. The package is the same for all products, so it is not critical which product section is used to download the package. Scroll down to near the end of the package download page, there will be a list of optional packages to download. It is not necessary to download the application package itself, administrators may just download the QPS License Server package from this area.

Install the server package on the server where convenient.

Activating a License

To activate a license first open a PowerShell window Run as Administrator. The window will *not* open immediately. You will first need to click on the shield icon in the program tray and then authorize the shell to make changes to your device. Then proceed to the directory where the QPS License Server package was installed. The scripts will be in a directory called `bin\` in the main directory, next to all the directories containing the server instances for each product. The script must be executed from this directory. You may keep your licenses in the directory already created called `00-Licenses\`, if you wish. This directory will be the first in the list, due to starting with 00. The examples will use this directory.



To activate a license, first locate the license XML file to be activated. For convenience, use the directory named `00-Licenses` to keep all your licenses. Copy the license XML into that directory. It will then be simple to run the `activate-licenses` script as follows (assuming the license is

named 5200000-2022323.xml). **Note:** the script *must* be executed while in the directory with the subdirectories of products, QPS-License-Server-Windows. Note carefully how the directory appears in the example. Executing the `dir` command should give the similar results as shown in the example, though there may be more directories as more products are added over time.

Note: The command must start with the following characters (press Tab when typing the command to autocomplete the path correctly): `.\`

Note that Tab completion was first added to PowerShell 7.0, available in 2022. For further details, see the following documentation: <https://learn.microsoft.com/en-us/powershell/scripting/learn/shell/tab-completion>

Example of using the `activate-license.ps1` script, use your own license XML file in place of the example:

```
.\bin\activate-license.ps1 00-Licenses\5200000-2022323.xml
```

The screenshot shows a Windows PowerShell window titled "Select Administrator: Windows PowerShell". The prompt is "PS C:\windows\system32>". The user enters `cd C:\temp\QPS-License-Server-Windows\` and then `dir`. The output shows a directory listing for `C:\temp\QPS-License-Server-Windows`. The listing includes columns for Mode, LastWriteTime, Length, and Name. The names listed are: 00-Licenses, bin, Connect, Fledermaus, Geocoder, Midwater, QARTO, Qastor 3, QASTOR Office, QASTOR Offline, Qernel, Qimera, Qimera Clean, Qimera Freelance, Qimera Offshore, Qimera Pro, Qimera Qalibrate, Qinsy 9 Marine Construction, Qinsy 9 Office, Qinsy 9 Offshore, Qinsy 9 Single Beam, QINSy Inshore, QINSy Survey, QINSy Survey Lite, QINSy Survey Office, QINSy Survey Remote, Qlipper, QPD SDK, Survey Manager, and Tile Server. The user then enters `.\bin\activate-licenses.ps1 .\00-Licenses\5200000-2022328.xml`.

Mode	LastWriteTime	Length	Name
d----	3/8/2023 11:37 AM		00-Licenses
d----	3/8/2023 12:25 PM		bin
d----	5/18/2022 5:24 PM		Connect
d----	5/18/2022 5:24 PM		Fledermaus
d----	5/18/2022 5:24 PM		Geocoder
d----	5/18/2022 5:24 PM		Midwater
d----	5/18/2022 5:24 PM		QARTO
d----	5/18/2022 5:24 PM		Qastor 3
d----	5/18/2022 5:24 PM		QASTOR Office
d----	5/18/2022 5:24 PM		QASTOR Offline
d----	5/18/2022 5:24 PM		Qernel
d----	5/18/2022 5:24 PM		Qimera
d----	5/18/2022 5:24 PM		Qimera Clean
d----	5/18/2022 5:24 PM		Qimera Freelance
d----	5/18/2022 5:24 PM		Qimera Offshore
d----	3/8/2023 11:36 AM		Qimera Pro
d----	5/18/2022 5:24 PM		Qimera Qalibrate
d----	5/18/2022 5:24 PM		Qinsy 9 Marine Construction
d----	5/18/2022 5:24 PM		Qinsy 9 Office
d----	5/18/2022 5:24 PM		Qinsy 9 Offshore
d----	5/18/2022 5:24 PM		Qinsy 9 Single Beam
d----	5/18/2022 5:24 PM		QINSy Inshore
d----	5/18/2022 5:24 PM		QINSy Survey
d----	5/18/2022 5:24 PM		QINSy Survey Lite
d----	5/18/2022 5:24 PM		QINSy Survey Office
d----	5/18/2022 5:24 PM		QINSy Survey Remote
d----	5/18/2022 5:24 PM		Qlipper
d----	5/18/2022 5:24 PM		QPD SDK
d----	5/18/2022 5:24 PM		Survey Manager
d----	5/18/2022 5:24 PM		Tile Server

The date is encoded in the license name. So in this case, 2022328, indicates March 23, 2022. This makes it possible to keep a directory of the licenses, and yet still be able to sort out the newest license.

Note that to deactivate a license, it is recommended to use the same license as was used for activation, not the new license (though that may actually work, it is not guaranteed to work, since products may have since been removed or added).

Tip: To make typing easier, type the first few letters or numbers of the directory or file name, then press Tab. Press Tab again until the correct file name completes.

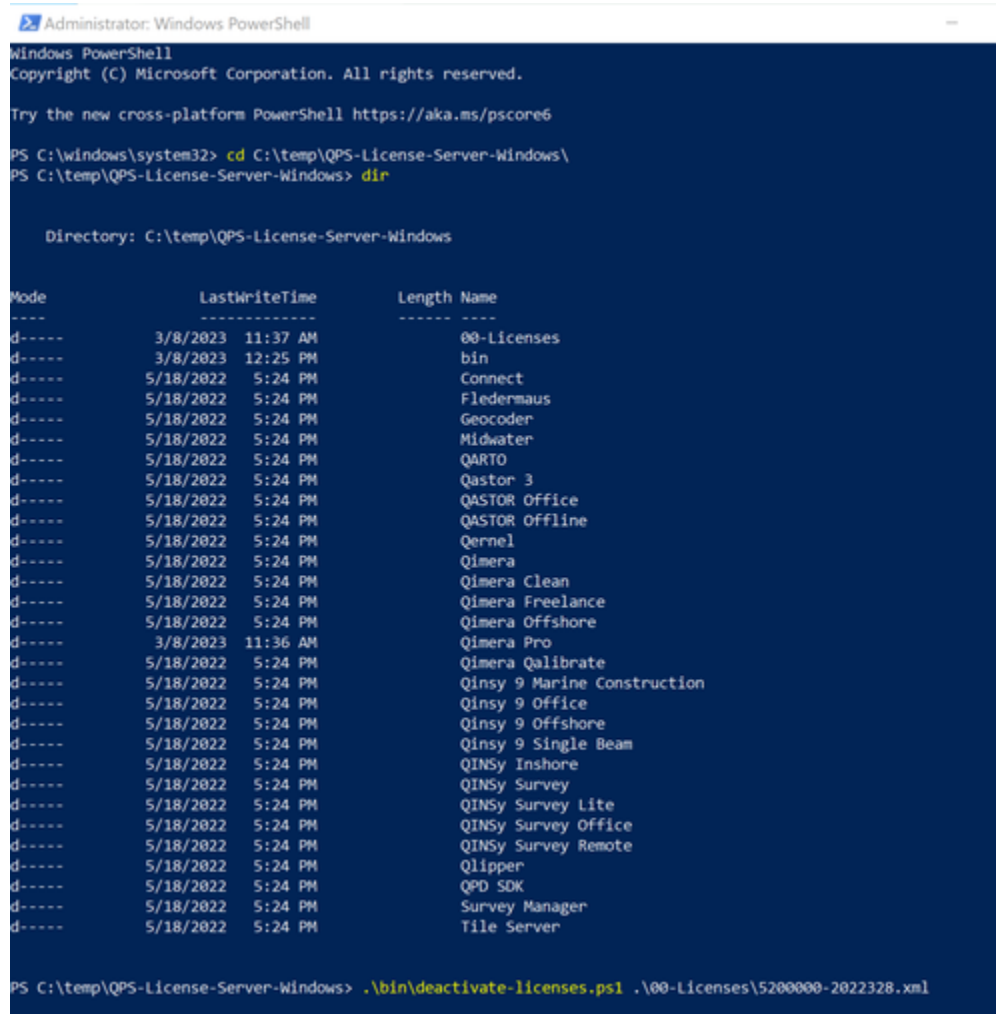
Deactivating a License

Note: For online deactivations only. For offline deactivations, follow the manual procedure in QPS documentation. Do *not* do a deactivation for an offline server with this script.

Similarly to activating a license, deactivating a license is done in a PowerShell window Run as Administrator in the same location, the directory where the QPS License Server package is installed. First, locate the license that was used to activate the servers, in this example 5200000-2022323.xml. It is recommended to use the same XML file to deactivate licenses as was used to activate the licenses. Then run the script to deactivate as follows (tip: use the Tab key to autocomplete the command name and file name):

```
.\bin\deactivate-license.ps1 00-Licenses\5200000-2022323.xml
```

It is recommended to use the same license to deactivate as was used to activate the license servers.



The screenshot shows a Windows PowerShell window titled "Administrator: Windows PowerShell". The window displays the following content:

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\windows\system32> cd C:\temp\QPS-License-Server-Windows\
PS C:\temp\QPS-License-Server-Windows> dir

Directory: C:\temp\QPS-License-Server-Windows

Mode                LastWriteTime         Length Name
----                -
d-----          3/8/2023 11:37 AM             00-Licenses
d-----          3/8/2023 12:25 PM              bin
d-----          5/18/2022 5:24 PM            Connect
d-----          5/18/2022 5:24 PM          Fledermaus
d-----          5/18/2022 5:24 PM          Geocoder
d-----          5/18/2022 5:24 PM          Midwater
d-----          5/18/2022 5:24 PM           QARTO
d-----          5/18/2022 5:24 PM          Qastor 3
d-----          5/18/2022 5:24 PM        QASTOR Office
d-----          5/18/2022 5:24 PM        QASTOR Offline
d-----          5/18/2022 5:24 PM          Qernel
d-----          5/18/2022 5:24 PM          Qimera
d-----          5/18/2022 5:24 PM        Qimera Clean
d-----          5/18/2022 5:24 PM        Qimera Freelance
d-----          5/18/2022 5:24 PM        Qimera Offshore
d-----          3/8/2023 11:36 AM          Qimera Pro
d-----          5/18/2022 5:24 PM        Qimera Qalibrate
d-----          5/18/2022 5:24 PM        Qinsy 9 Marine Construction
d-----          5/18/2022 5:24 PM        Qinsy 9 Office
d-----          5/18/2022 5:24 PM        Qinsy 9 Offshore
d-----          5/18/2022 5:24 PM        Qinsy 9 Single Beam
d-----          5/18/2022 5:24 PM        QINSy Inshore
d-----          5/18/2022 5:24 PM        QINSy Survey
d-----          5/18/2022 5:24 PM        QINSy Survey Lite
d-----          5/18/2022 5:24 PM        QINSy Survey Office
d-----          5/18/2022 5:24 PM        QINSy Survey Remote
d-----          5/18/2022 5:24 PM        Qlipper
d-----          5/18/2022 5:24 PM        QPD SOK
d-----          5/18/2022 5:24 PM        Survey Manager
d-----          5/18/2022 5:24 PM        Tile Server

PS C:\temp\QPS-License-Server-Windows> .\bin\deactivate-licenses.ps1 .\00-Licenses\5200000-2022323.xml
```

Tip: To make typing easier, type the first few letters or numbers of the directory or file name, then press Tab. Press Tab again until the correct file name completes.

Watch Log

There is a script that will assist in watching the log for a specific license server. By executing the script, `.\bin\watch-log.ps1`, it is possible to see a live stream of the log as it is written, readily confirming (depending on the log level) the status of the server. You may use autocomplete (press Tab) to complete the script name and product name.

To exit the live listing of the log, press `Ctrl-C` in the terminal (press and hold the `Ctrl` key while also pressing the `C` key).

For example, the following command will watch the log for Fledermaus:

```
.\bin\watch-log.ps1 Fledermaus
```

```
Windows PowerShell
5/18/2022 5:24 PM Connect
3/22/2023 3:57 PM Fledermaus
5/18/2022 5:24 PM Geocoder
5/18/2022 5:24 PM Midwater
5/18/2022 5:24 PM QARTO
5/18/2022 5:24 PM Qastor 3
5/18/2022 5:24 PM QASTOR Office
5/18/2022 5:24 PM QASTOR Offline
5/18/2022 5:24 PM Qernel
5/18/2022 5:24 PM QImera
5/18/2022 5:24 PM QImera Clean
5/18/2022 5:24 PM QImera Freelance
3/21/2023 5:00 PM QImera Offshore
3/8/2023 11:36 AM QImera Pro
5/18/2022 5:24 PM QImera Qalibrate
5/18/2022 5:24 PM QInsy 9 Marine Construction
5/18/2022 5:24 PM QInsy 9 Office
5/18/2022 5:24 PM QInsy 9 Offshore
5/18/2022 5:24 PM QInsy 9 Single Beam
5/18/2022 5:24 PM QINsy Inshore
5/18/2022 5:24 PM QINsy Survey
5/18/2022 5:24 PM QINsy Survey Lite
5/18/2022 5:24 PM QINsy Survey Office
5/18/2022 5:24 PM QINsy Survey Remote
5/18/2022 5:24 PM Qlipper
5/18/2022 5:24 PM QPD SDK
5/18/2022 5:24 PM Survey Manager
5/18/2022 5:24 PM Tile Server
7/6/2021 4:49 PM 916 5204421-server.xml
3/13/2023 5:05 PM 870 activate-licenses.ps1
3/13/2023 5:05 PM 865 deactivate-licenses.ps1

PS C:\temp\QPS-License-Server-Windows> .\bin\watch-log.ps1 Fledermaus
Listing live log data for: Fledermaus
Press Ctrl-C to exit listing...

2023-03-22, 14:51:47 <notification>: New connection from IP: ::ffff:127.0.0.1
2023-03-22, 14:51:47 <notification>: Lease was released by client (user4321, 4321, IP::ffff:127.0.0.1, PID=1234567). Used / Total leases: 0 / 1
2023-03-22, 14:51:47 <notification>: New connection from IP: ::ffff:127.0.0.1
2023-03-22, 14:51:47 <notification>: New lease assigned (user4321, 4321, IP::ffff:127.0.0.1, PID=1234567). Expires: 2023-03-22 18:21:47 (in UTC). Use
d / Total leases: 1 / 1
2023-03-22, 14:51:47 <notification>: New connection from IP: ::ffff:127.0.0.1
2023-03-22, 14:51:47 <notification>: Lease was released by client (user4321, 4321, IP::ffff:127.0.0.1, PID=1234567). Used / Total leases: 0 / 1
2023-03-22, 14:51:48 <notification>: New connection from IP: ::ffff:127.0.0.1
2023-03-22, 14:51:48 <notification>: New lease assigned (user4321, 4321, IP::ffff:127.0.0.1, PID=1234567). Expires: 2023-03-22 18:21:48 (in UTC). Use
d / Total leases: 1 / 1
2023-03-22, 14:51:48 <notification>: New connection from IP: ::ffff:127.0.0.1
2023-03-22, 14:51:48 <notification>: Lease was released by client (user4321, 4321, IP::ffff:127.0.0.1, PID=1234567). Used / Total leases: 0 / 1
```

Conclusion

Activating or deactivating a license using the PowerShell scripts should be straightforward and quick. If there are any issues, please contact support at:

<https://qpssoftware.atlassian.net/servicedesk/customer/portals>