Verify Zend Server for IBM i has started successfully

Issue

How to verify that all of the needed jobs for Zend Server for IBM i are active.

Environment

Zend Server for IBM i version 6 or higher, running on any supported version of IBM i.

Resolution

Versions 2020.x, 2021.x

From a 5250 command line:

```
go zendphp74/zsvmenu
```

Use option "3. Work with Zend Server subsystems". Select option 1, and press enter. This will bring up the "Work with Active Jobs" display for subsystem ZENDPHP74. Please verify that the following jobs display:

```
ZSDAEMON     QTMHHTTP    BCI      .0  PGM-watchdog
ZSDAEMON     QTMHHTTP    BCI     3.8  PGM-zsd
ZSDEPLMNG    QTMHHTTP    BCI      .0  PGM-watchdog
ZSDEPLMNG    QTMHHTTP    BCI      .5  PGM-zdd
ZSJOBQMNG    QTMHHTTP    BCI      .0  PGM-watchdog
ZSJOBQMNG    QTMHHTTP    BCI      .0  PGM-jqd
ZSMONMNG     QTMHHTTP    BCI      .0  PGM-watchdog
ZSMONMNG     QTMHHTTP    BCI      .0  PGM-MonitorNod
```

The jobs that start up are controlled by settings, so they may differ from those shown above. For a new installation, the jobs shown above should all be there. They are for the Server Daemon, Deployment, Job Queue, and Monitor components. We recommend that the configuration should not be changed to exclude these jobs. You may also see additional jobs for the Java Bridge and Prngd (Pseudo-random number generator).

Note: If subsystem ZENDPHP74 is started but there are no jobs running in it, this article may help:

Jobs will not start in subsystem ZENDPHP74 at start up, but can be started individually from the menu

Use F3 to return to the menu. Once again, use option "3. Work with Zend Server subsystems". Use option 2, and press enter. This will bring up the "Work with Active Jobs" display for jobs named ZENDPHP7. Please verify that the following jobs display:

```
ZENDPHP74    QTMHHTTP    BCH      .0  PGM-QZHBMAIN
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-QZSRLOG
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-QZSRLOG
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-QZSRHTTP
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-zfcgi
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP74    QTMHHTTP    BCI      .1  PGM-php-cgi.bi
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP74    QTMHHTTP    BCI      .0  PGM-php-cgi.bi
```

For a new installation, all of these jobs should appear. If the FastCGI configuration has been modified, there may be more of the jobs running function "PGM-php-cgi.bi". There will be as many as there are child processes specified, plus one. There may also be additional jobs running "PGM-QZSRLOG" if the Apache configuration has been modified to produce more logs. However, for new installations, the list of jobs shows the expected jobs for the default configurations.

If any of the jobs above are missing, please try a reset, if you have not already done so. Then check again to see if all the jobs have started. This article tells how to do the reset:

Reset Zend Server

Version 9.1.x, 2018.x, 2019.x

From a 5250 command line:

```
go zendphp7/zsvmenu
```

Use option "3. Work with Zend Server subsystems". Select option 1, and press enter. This will bring up the "Work with Active Jobs" display for subsystem ZENDPHP7. Please verify that the following jobs display:

```
ZSDAEMON     QTMHHTTP    BCI      .0  PGM-watchdog
ZSDAEMON     QTMHHTTP    BCI     3.8  PGM-zsd
ZSDEPLMNG    QTMHHTTP    BCI      .0  PGM-watchdog
ZSDEPLMNG    QTMHHTTP    BCI      .5  PGM-zdd
ZSJOBQMNG    QTMHHTTP    BCI      .0  PGM-watchdog
ZSJOBQMNG    QTMHHTTP    BCI      .0  PGM-jqd
ZSMONMNG     QTMHHTTP    BCI      .0  PGM-watchdog
ZSMONMNG     QTMHHTTP    BCI      .0  PGM-MonitorNod
```

The jobs that start up are controlled by settings, so they may differ from those shown above. For a new installation, the jobs shown above should all be there. They are for the Server Daemon, Deployment, Job Queue, and Monitor components. We recommend that the configuration should not be changed to exclude these jobs. You may also see additional jobs for the Java Bridge and Prngd (Pseudo-random number generator).

Note: If subsystem ZENDPHP7 is started but there are no jobs running in it, this article may help:

Jobs will not start in subsystem ZENDPHP74 at start up, but can be started individually from the menu

Use F3 to return to the menu. Once again, use option "3. Work with Zend Server subsystems". Use option 2, and press enter. This will bring up the "Work with Active Jobs" display for jobs named ZENDPHP7. Please verify that the following jobs display:

```
ZENDPHP7     QTMHHTTP    BCH      .0  PGM-QZHBMAIN
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-QZSRLOG
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-QZSRLOG
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-QZSRHTTP
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-zfcgi
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP7     QTMHHTTP    BCI      .1  PGM-php-cgi.bi
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDPHP7     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
```

For a new installation, all of these jobs should appear. If the FastCGI configuration has been modified, there may be more of the jobs running function "PGM-php-cgi.bi". There will be as many as there are child processes specified, plus one. There may also be additional jobs running "PGM-QZSRLOG" if the Apache configuration has been modified to produce more logs. However, for new installations, the list of jobs shows the expected jobs for the default configurations.

If any of the jobs above are missing, please try a reset, if you have not already done so. Then check again to see if all the jobs have started. This article tells how to do the reset:

Reset Zend Server for IBM i

Resolution - Versions 6 - 8.5.x

From a 5250 command line:

```
go zendsvr6/zsvmenu
```

Use option "3. Work with Zend Server subsystems". Select option 1 (or Subsystem Name ZENDSVR6 for versions prior to 8.5), and press enter. This will bring up the "Work with Active Jobs" display for subsystem ZENDSVR6. Please verify that the following jobs display:

```
ZSDAEMON     QTMHHTTP    BCI      .0  PGM-watchdog
ZSDAEMON     QTMHHTTP    BCI     3.8  PGM-zsd
ZSDEPLMNG    QTMHHTTP    BCI      .0  PGM-watchdog
ZSDEPLMNG    QTMHHTTP    BCI      .5  PGM-zdd
ZSJOBQMNG    QTMHHTTP    BCI      .0  PGM-watchdog
ZSJOBQMNG    QTMHHTTP    BCI      .0  PGM-jqd
ZSMONMNG     QTMHHTTP    BCI      .0  PGM-watchdog
ZSMONMNG     QTMHHTTP    BCI      .0  PGM-MonitorNod
```

The jobs that start up are controlled by settings, so they may differ from those shown above. For a new installation, the jobs shown above should all be there. They are for the Server Daemon, Deployment, Job Queue, and Monitor components. We recommend that the configuration should not be changed to exclude these jobs. You may also see additional jobs for the Java Bridge and Prngd (Pseudo-random number generator).

Note: If subsystem ZENDSVR6 is started but there are no jobs running in it, this article may help:

Jobs will not start in subsystem ZENDPHP74 at start up, but can be started individually from the menu

Use F3 to return to the menu. Once again, use option "3. Work with Zend Server subsystems". Select option 2 (or Subsystem Name QHTTPSVR for versions prior to 8.5), and press enter. This will bring up the "Work with Active Jobs" display. Please verify that the following jobs display:

```
ZENDSVR6     QTMHHTTP    BCH      .0  PGM-QZHBMAIN
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-QZSRLOG
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-QZSRLOG
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-QZSRHTTP
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-zfcgi
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDSVR6     QTMHHTTP    BCI      .1  PGM-php-cgi.bi
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
ZENDSVR6     QTMHHTTP    BCI      .0  PGM-php-cgi.bi
```

For a new installation, all of these jobs should appear. If the FastCGI configuration has been modified, there may be more of the jobs running function "PGM-php-cgi.bi". There will be as many as there are child processes specified, plus one. There may also be additional jobs running "PGM-QZSRLOG" if the Apache configuration has been modified to produce more logs. However, for new installations, the list of jobs shows the expected jobs for the default configurations.

If any of the jobs above are missing, please try a reset, if you have not already done so. Then check again to see if all the jobs have started. This article tells how to do the reset:

Reset Zend Server for IBM i