# 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
            OTMHHTTP
                                 .0 PGM-watchdog
ZSDAEMON
            QTMHHTTP
                        BCT
                                3.8 PGM-zsd
                                .0 PGM-watchdog
ZSDEPLMNG
                        BCI
            OTMHHTTP
            OTMHHTTP
                        BCT
                                .5 PGM-zdd
ZSDEPLMNG.
ZSJOBOMNG
            OTMHHTTP
                        BCT
                                 .0 PGM-watchdog
ZSJOBOMNG
            OTMHHTTP
                        BCI
                                .0 PGM-jqd
ZSMONMNG
            QTMHHTTP
                        BCI
                                . 0
                                     PGM-watchdog
ZSMONMNG
            OTMHHTTP
                                 .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
             ОТМИНТТР
                                  .0 PGM-QZHBMAIN
                         BCH
                                 .0 PGM-QZSRLOG
ZENDPHP74
             OTMHHTTP
                         BCT
                                 .0 PGM-QZSRLOG
ZENDPHP74
             OTMHHTTP
                         BCT
                                 .0 PGM-QZSRHTTP
ZENDPHP74
             QTMHHTTP
                         BCI
ZENDPHP74
             OTMHHTTP
                         BCI
                                 .0 PGM-zfcgi
ZENDPHP74
             QTMHHTTP
                         BCI
                                 .0 PGM-php-cgi.bi
                                 .0 PGM-php-cgi.bi
ZENDPHP74
                         BCI
             OTMHHTTP
                                 .0 PGM-php-cgi.bi
ZENDPHP74
                         BCI
             OTMHHTTP
                                 .0 PGM-php-cgi.bi
ZENDPHP74
             ОТМИНТТР
                         BCT
ZENDPHP74
             OTMHHTTP
                         BCT
                                 .0 PGM-php-cgi.bi
                                 .0 PGM-php-cgi.bi
ZENDPHP74
             OTMHHTTP
                         BCI
ZENDPHP74
             QTMHHTTP
                         BCI
                                 .0
                                      PGM-php-cgi.bi
ZENDPHP74
                         BCI
             OTMHHTTP
                                 .0 PGM-php-cgi.bi
ZENDPHP74
             QTMHHTTP
                         BCI
                                 .1 PGM-php-cgi.bi
ZENDPHP74
             OTMHHTTP
                         BCI
                                 .0 PGM-php-cgi.bi
             OTMHHTTP
                         BCI
ZENDPHP74
                                  .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:

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

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
                                       PGM-QZHBMAIN
ZENDPHP7
             OTMHHTTP
                                       PGM-QZSRLOG
ZENDPHP7
             QTMHHTTP
                          BCI
                                       PGM-QZSRLOG
                                   .0
ZENDPHP7
                          BCI
                                       PGM-OZSRHTTP
             OTMHHTTP
                                   . 0
ZENDPHP7
                                   .0
                                       PGM-zfcqi
             OTMHHTTP
                          BCI
                                   .0
ZENDPHP7
             OTMHHTTP
                          BCI
                                       PGM-php-cqi.bi
                                   . 0
ZENDPHP7
             QTMHHTTP
                          BCI
                                       PGM-php-cgi.bi
ZENDPHP7
             QTMHHTTP
                          BCI
                                       PGM-php-cgi.bi
                                   . 0
ZENDPHP7
                          BCI
                                       PGM-php-cgi.bi
             OTMHHTTP
ZENDPHP7
             QTMHHTTP
                          BCI
                                   . 0
                                       PGM-php-cgi.bi
ZENDPHP7
             QTMHHTTP
                          BCI
                                       PGM-php-cgi.bi
                                   .0
ZENDPHP7
             OTMHHTTP
                          BCI
                                       PGM-php-cgi.bi
                                   . 0
                                   . 0
ZENDPHP7
             OTMHHTTP
                          BCI
                                       PGM-php-cgi.bi
ZENDPHP7
             OTMHHTTP
                          BCI
                                   . 1
                                       PGM-php-cgi.bi
                                   .0
ZENDPHP7
             OTMHHTTP
                          BCI
                                       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
                                       PGM-watchdog
ZSDAEMON
             QTMHHTTP
                          BCI
                                       PGM-zsd
ZSDEPLMNG
                          BCI
                                       PGM-watchdog
             OTMHHTTP
ZSDEPLMNG
             QTMHHTTP
                          BCI
                                   . 5
                                       PGM-zdd
ZSJOBQMNG
             QTMHHTTP
                          BCI
                                   .0
                                       PGM-watchdog
ZSJOBOMNG
                          BCI
             OTMHHTTP
                                       PGM-jad
                                   . 0
                                   .0
                                       PGM-watchdog
ZSMONMNG
             OTMHHTTP
                          BCI
ZSMONMNG
             OTMHHTTP
                          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
                         всн
                                      PGM-QZHBMAIN
ZENDSVR6
             QTMHHTTP
                         BCI
                                  .0 PGM-QZSRLOG
                                  .0
ZENDSVR6
             QTMHHTTP
                         BCI
                                      PGM-QZSRLOG
ZENDSVR6
                         BCI
                                      PGM-OZSRHTTP
             OTMHHTTP
                                  . 0
             OTMHHTTP
                                  .0
ZENDSVR6
                         BCT
                                      PGM-zfcqi
ZENDSVR6
             OTMHHTTP
                         BCT
                                  . 0
                                      PGM-php-cgi.bi
                                  .0
ZENDSVR6
             OTMHHTTP
                         BCI
                                      PGM-php-cgi.bi
ZENDSVR6
             QTMHHTTP
                         BCI
                                  .0
                                      PGM-php-cgi.bi
ZENDSVR6
             OTMHHTTP
                         BCI
                                      PGM-php-cgi.bi
ZENDSVR6
             QTMHHTTP
                         BCI
                                  .0
                                      PGM-php-cgi.bi
ZENDSVR6
             QTMHHTTP
                         BCI
                                      PGM-php-cgi.bi
                                  . 0
                                  .0
ZENDSVR6
             OTMHHTTP
                         BCI
                                      PGM-php-cgi.bi
ZENDSVR6
             OTMHHTTP
                         BCT
                                  . 0
                                      PGM-php-cgi.bi
ZENDSVR6
             QTMHHTTP
                         BCI
                                  .1
                                      PGM-php-cgi.bi
ZENDSVR6
             QTMHHTTP
                         BCI
                                  .0
                                      PGM-php-cgi.bi
ZENDSVR6
             QTMHHTTP
                         BCI
                                      PGM-php-cgi.bi
                                  . 0
```

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 "PG M-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