

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	.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 QHTTSPVR 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.

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