



The PHP Company

Installation Guide

Zend Core for i5/OS v2.6

By Zend Technologies, Inc.



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Installation

Zend Core™ supports businesses using PHP and managing database information for mission critical web applications. It provides a seamless out-of-the-box experience delivering a stable, easy to-install and supported PHP development and production environment.

Presented in a browser-based environment, Zend Core provides a highly stable and efficient means for installing and managing PHP servers. Resources and reference information are bundled into Zend Core for "one click" access to a wide range of information, configurations and reference documents.

Using Zend Core ensures that organizations work with a stable, certified, binary distribution of PHP. In other words, Zend Core provides a constantly supported and updated generic code base. An organization's PHP will therefore be easily understood so that newcomers or external consultants can quickly get up to speed with the new environment.

Prerequisites

Verify the existence of the following:

- A /usr/local directory. This is where the product will be installed.
- Minimum OS V5R4M0.
- The latest version of PTF.
- The following LICPGMs:

Description	Product Option	Licensed Program V5R4	Licensed Program V6R1
Portable App Solutions Environment	33	5722SS1	5761SS1
Qshell	30	5722SS1	5761SS1
System Openness Includes	13	5722SS1	5761SS1
IBM Portable Utilities For I5/OS	*base	5733SC1	5733SC1
OpenSSH, OpenSST, Zlib	1	5733SC1	5733SC1

System Requirements

To be sure you have the most current details regarding Zend Core's compatibility with platforms, PHP versions, and Zend's other products, refer to the information available at: <http://www.zend.com/en/products/core/system-requirements>.

This information is regularly updated.

Zend Product Integration

For full information on Zend Core's integration with other Zend products, such as Zend Platform and Zend Studio, please see the Zend Core Release Notes, located in the Zend Core Resources page, available at

<http://www.zend.com/en/products/core/resources>.

Installing Zend Core for i5/OS

Note:

If you have a previously installed version of Zend Core for i5/OS, see the instructions under '[Upgrading Zend Core for i5/OS](#)', below.

There are three installation modes, Silent, Interactive and Windows-Based:

Silent Mode

The silent mode performs the complete installation without an installation interface.

To run a silent installation:

1. Create a SAVF in QGPL under the name ZCORESAVF.
2. Download the installation package - i5/OS (ZIP) | 2.6.0 - from <http://www.zend.com/en/products/core/downloads>.
3. Transfer the package by binary FTP to the SAVF ZCORESAVF in QGPL.
4. When the SAVF is loaded into the i5 QGPL library run the following:

```
SBMJOB CMD(RSTLICPGM LICPGM(1ZCORE5) DEV(*SAVF)  
SAVF(QGPL/ZCORESAVF))
```

5. Zend Core for i5/OS will be automatically installed without interactive dialogs being displayed.

Note:

The silent installation will not install the MySQL Database.

To install MySQL following installation:

1. Open the Setup Tool by running the command `go zendcore/zcmenu` in your i5/OS emulation screen.
2. Select Option 6 - MySQL management menu.
3. You will be prompted to install the MySQL database.

Note: MySQL must be installed by QSECOFR.

Interactive Mode

To run an interactive installation:

1. Create a SAVF in QGPL under the name ZCORESAVF.
2. Download the installation package - i5/OS (ZIP) | 2.6.0 - from <http://www.zend.com/en/products/core/downloads>.
3. Transfer the package by binary FTP to the SAVF ZCORESAVF in QGPL.
4. When the SAVF is loaded into the i5 QGPL library, run the following command:

```
RSTLICPGM LICPGM(1ZCORE5) DEV(*SAVF) SAVF(QGPL/ZCORESAVF)
```

```
Restore Licensed Program (RSTLICPGM)

Type choices, press Enter.

Product . . . . . > 1ZCORE5      Character value
Device . . . . . > *SAVF        Name, *SAVF
                               + for more values
Optional part to be restored . . *BASE      *BASE, 1, 2, 3, 4, 5,
6, 7...
Type of object to be restored . *ALL       *ALL, *PGM, *LNG
Language for licensed program . *PRIMARY   Character value,
*PRIMARY...
Output . . . . . *NONE         *NONE, *PRINT
Release . . . . . *FIRST      Character value, *FIRST
Replace release . . . . . *ONLY Character value, *ONLY,
*NO
Save file . . . . . ZCORESAVF   Name
Library . . . . . QGPL         Name, *LIBL, *CURLIB

More...

F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters
F12=Cancel F13=How to use this display  F24=More keys
```

Figure 1 - Restore Licensed Program

5. The installation screens will load automatically.

```
Zend Core for i5/OS Install

Welcome to the Zend Core for i5/OS installation

For complete installation instructions, please refer to
the Zend Core for i5/OS Installation Guide.

F3=Exit  Enter=Continue
```

Figure 2 - Welcome Screen

6. Press Enter to continue or F3 to exit installation.
The License Agreement will be displayed.

```
Zend Core for i5/OS Install

ZEND TECHNOLOGIES, INC.
Terms and Conditions for Zend Core for i5/OS Software
(the "Software")
-----

IMPORTANT - READ CAREFULLY THE FOLLOWING TERMS AND CONDITIONS
(THESE "TERMS") BEFORE INSTALLING THE SOFTWARE. BY SELECTING
THE
"I ACCEPT" BUTTON BELOW, OR BY INSTALLING THE SOFTWARE, YOU
AGREE
TO BE BOUND BY THESE TERMS. IF YOU SELECT "I DO NOT ACCEPT,"
THE
INSTALLATION PROCESS WILL NOT PROCEED. DO NOT SELECT "I
ACCEPT,"
OR INSTALL THE SOFTWARE UNTIL YOU HAVE CAREFULLY READ,
UNDERSTOOD,
AND AGREED TO THESE TERMS. IF YOU DO NOT WISH TO AGREE TO THESE
TERMS DO NOT INSTALL THE SOFTWARE.

More...
F3=Decline(NO)   Enter=Accept(YES)
```

Figure 3 - License Agreement

7. Press Enter to accept the agreement and continue the installation or Press F3 to decline and stop the installation process without completion.
The Zend Core Web Administration Console password screen will open.

```
Zend Core for i5/OS Install

The Zend Core Web Administration Console
is password protected (case sensitive).

Please enter password: _____

F3=Exit   Enter=Continue
```

Figure 4 - Administration Password Configuration

8. Enter a Password for the Zend Core Web Administration GUI. Press Enter to continue the installation (or Press F3 to Exit).

```

Zend Core for i5/O8 Install

You can enter your Zend Core for i5/O8 environment over the
Internet. To enable this, you must enter your Zend Network
User ID and Password.

If you are not subscribed to the Zend Network, please
register at:
http://www.zend.com/network

To enter your Zend Network User ID and Password, select
Yes.
To continue the installation without entering a Zend
Network User ID and Password, select No.

F3=NO(Exit)      Enter=YES(Continue)

```

Figure 5 - Zend Network Information

9. Zend Core for i5/O8 users benefit from access to Zend Core's regular Updates and Security Fixes.

Note:

To learn more about Zend Core Support, and to register for a Support Subscription, go to: <http://www.zend.com/en/products/core/support>.

If you have registered for a Zend Core Support Subscription, press Enter to enter your Zend Core Support Network User ID and Password or F3 to continue with the installation without entering your details.

You will also be able to configure your Zend Core Support Network User ID and Password later using the Zend Core Setup Tool.

10. If you pressed Enter, the Zend Core Support Network ID password screen will appear.

```

                Zend Core for i5/O8 Install

Please enter your Zend Network ID (case
sensitive).

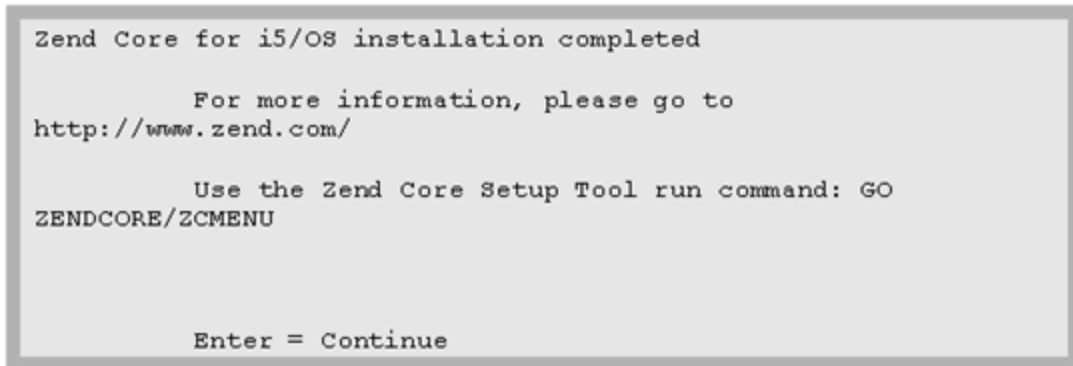
User ID : _____
Password: _____

F3=Exit  Enter=Continue

```

Figure 6 - Zend Network ID and Password

11. Enter your Zend Core Support Network ID and Password and press Enter to continue.
12. The program will now be installed.



```
Zend Core for i5/OS installation completed

      For more information, please go to
http://www.zend.com/

      Use the Zend Core Setup Tool run command: GO
ZENDCORE/ZCMENU

      Enter = Continue
```

Figure 7 - Installation Complete

13. This completes the installation of Zend Core for i5/OS.

Note:

You can access the Zend Updater at any time using the following command:

```
GO ZENDCORE/ZCMENU
```

14. Press Enter to continue.
15. Zend Core for i5/OS comes bundled with a MySQL database. You will now be prompted to install it.

Note:

V5R4 OS and above is required for the MySQL database to run.

In addition, MySQL must be installed by QSECOFR.

MySQL Installation

```
MySQL installation (optional)

Press ENTER to start MySQL installation or press F3 to skip
MySQL installation

F3=Exit
```

Figure 8 - MySQL Installation Option

1. Press Enter to start the MySQL installation or F3 to skip MySQL installation.

Note:

You can install the MySQL database later using the Setup Tool.

To install MySQL following installation:

1. Open the Setup Tool by running the command `go zendcore/zcmenu` in your i5/OS emulation screen.
2. Select Option 6 - MySQL management menu.
3. You will be prompted to install the MySQL database.

Note: MySQL must be installed by QSECOFR.

2. If you pressed Enter and MySQL is already installed in the directory `/usr/local/MySQL`, the following prompt will appear:

```
MySQL installation (optional)

MySql is already installed.

F3=Exit
```

Figure 9 - MySQL already installed

3. If this prompt has appeared, MySQL is already installed. Press F3 to finish the installation.

4. If MySQL has not been previously installed, it will be installed now:

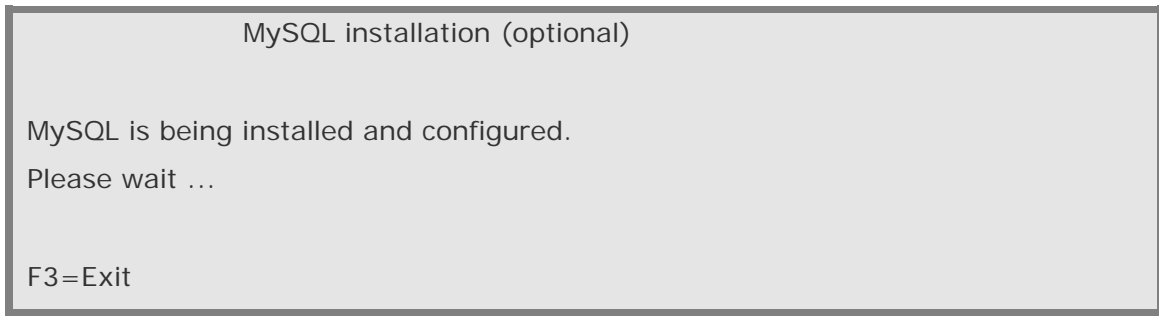


Figure 10 - MySQL installation

5. A dialog will appear reminding you to set a password for the MySQL root user:

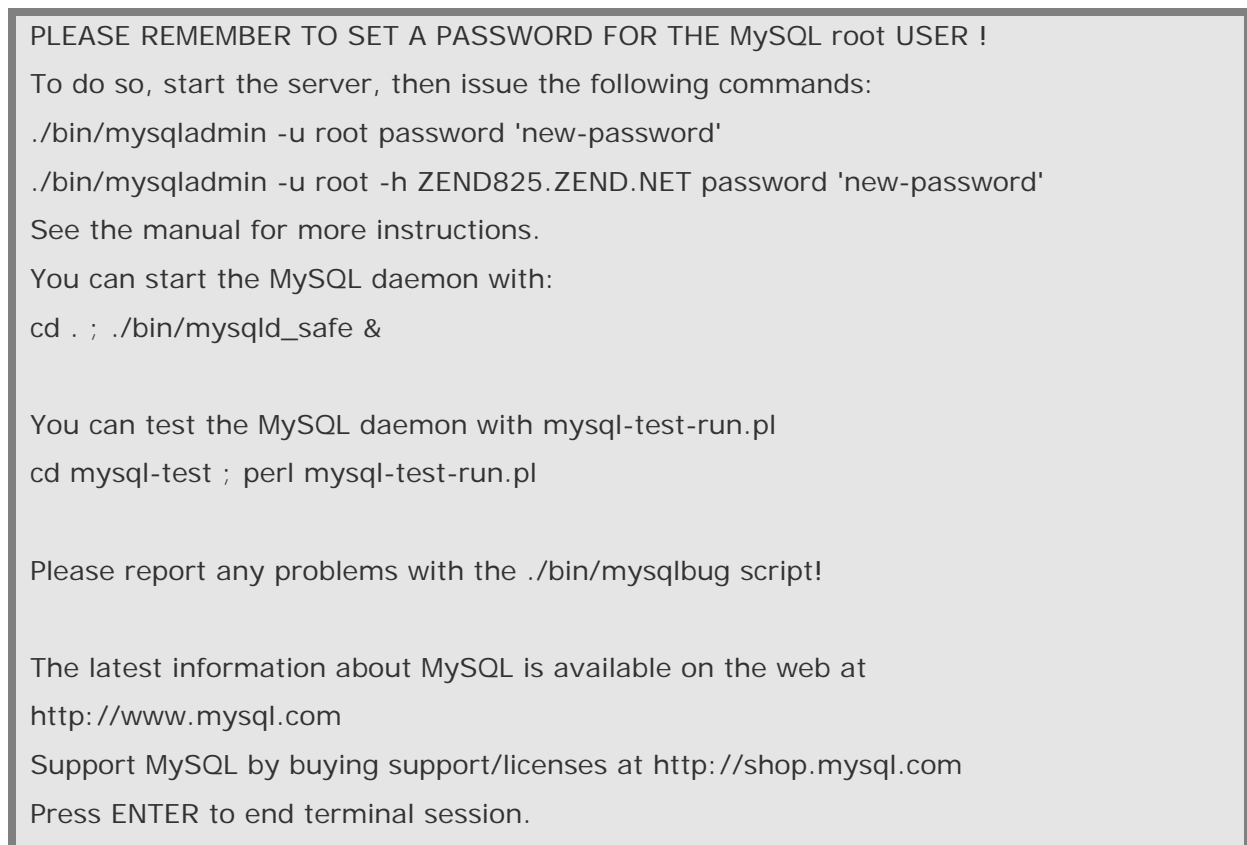


Figure 11 - MySQL Instructions

6. In addition to the instructions in the dialog, the MySQL Daemon can later be stopped/started through the Zend Core Setup Tool.



To start/stop your MySQL Daemon (after the MySQL installation):

1. Open the Zend Core for i5 Setup Tool by running the following command:

```
go zendcore/zcmenu
```
2. Select Option 6 - MySQL Management Menu.
3. In the following screen, select Option 4 - Start MySQL daemon or Option 5 - Stop MySQL daemon.

7. Press Enter to continue.

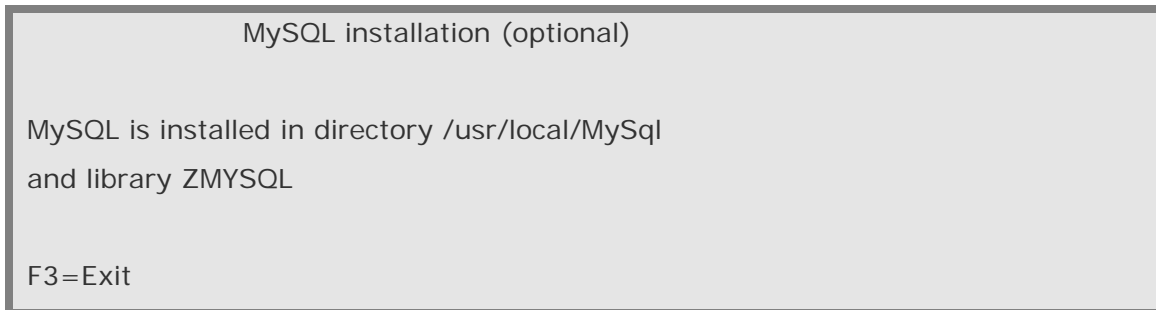


Figure 12 - MySQL Installation Confirmation

8. A confirmation message will appear stating the location of your MySQL installation.
See the 'Testing your MySQL Connection using Zend Studio', section, below, for more on connecting to the MySQL database.
9. Press F3 to finish and exit the installation process.

Testing your MySQL Connection using Zend Studio 5.x

If you installed MySQL, you can use Zend Studio 5.x in order to test your MySQL connection and access your database.

Note:

See <http://www.zend.com/en/products/studio/for-i5os> for more on Zend Studio for i5/OS.



To test your MySQL connection:

1. Open Zend Studio.
2. From Studio's File Manager, click the SQL tab.
3. Right-click and select the Add SQL Server option.

The Add SQL Server dialog will appear.

Add SQL Server

SQL Server Settings

Server Type: MySQL

Server Name (Alias): i5_MySQL

Host Name/IP: 10.1.1.40

Port: 3306

Database Name: mysql

User Name: root

Password:

Connection Preferences

Connect when Zend Studio Starts Save Password

Auto Reconnect

Test the Connection Every 10 Seconds

OK Test Cancel Help

Figure 13 - Add SQL Server Dialog

4. Enter the SQL Server Settings in the fields.

The settings include:

- Server Type - Select MySQL.
 - Server Name (Alias) - Enter a server name. This will appear on the SQL Tree (of the File Manager).
 - Host Name/IP - Enter your server address.
 - Port - When you choose a Server Type, the default port appears in this field automatically.
 - Database Name - Enter 'mysql'.
 - User Name - Enter the default password 'root'.
 - Password - Leave the password field blank.
5. Click Test to attempt to connect to the SQL Server using the settings and connections currently entered in the Add SQL Server dialog box. If the connection is successful, a 'Connection Successful' dialog will appear.
 6. Click OK.
Your SQL Server will be added to the SQL tab, and you will be able to view and access the tables contained in it.

See the Zend Studio for i5/OS User Guide for more information.

Note:

To uninstall MySQL:

1. Stop the ZMYSQL subsystem.
2. Delete ZMYSQL library.
3. Remove the /usr/local/mysql-5.0.45-i5os-power-64bit directory.
4. Remove the /usr/local//mysqldata directory.
5. Remove the /usr/local/mysql link.

See <http://dev.mysql.com/doc/refman/5.0/en/installation-i5os.html> for more information.

Windows-based Zend Core for i5/OS Installation

Zend Core for i5/OS can be installed on your i5/OS server through your Windows Operating System, using interactive dialogs.

To install Zend Core for i5/OS through Windows:

1. Download the Windows installation package - i5/OS (Win Installer) (ZIP) | 2.6.0 - from <http://www.zend.com/en/products/core/downloads>.
2. Unzip the download file to your temp directory
3. Double-click the Setup.exe file to start the installation.
The Welcome Screen will appear.



Figure 14 - Installation Welcome Screen

4. Press Next.

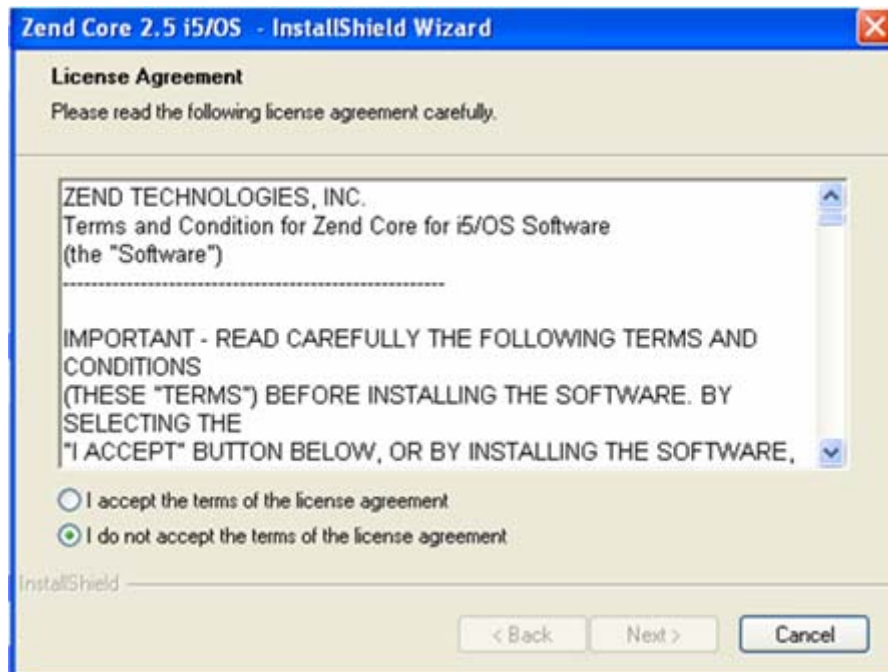


Figure 15 - License Agreement

5. Select whether to accept the terms of the agreement by selecting the relevant option.
If you choose not to accept the agreement, the installation process will terminate.
6. Select Next to continue.

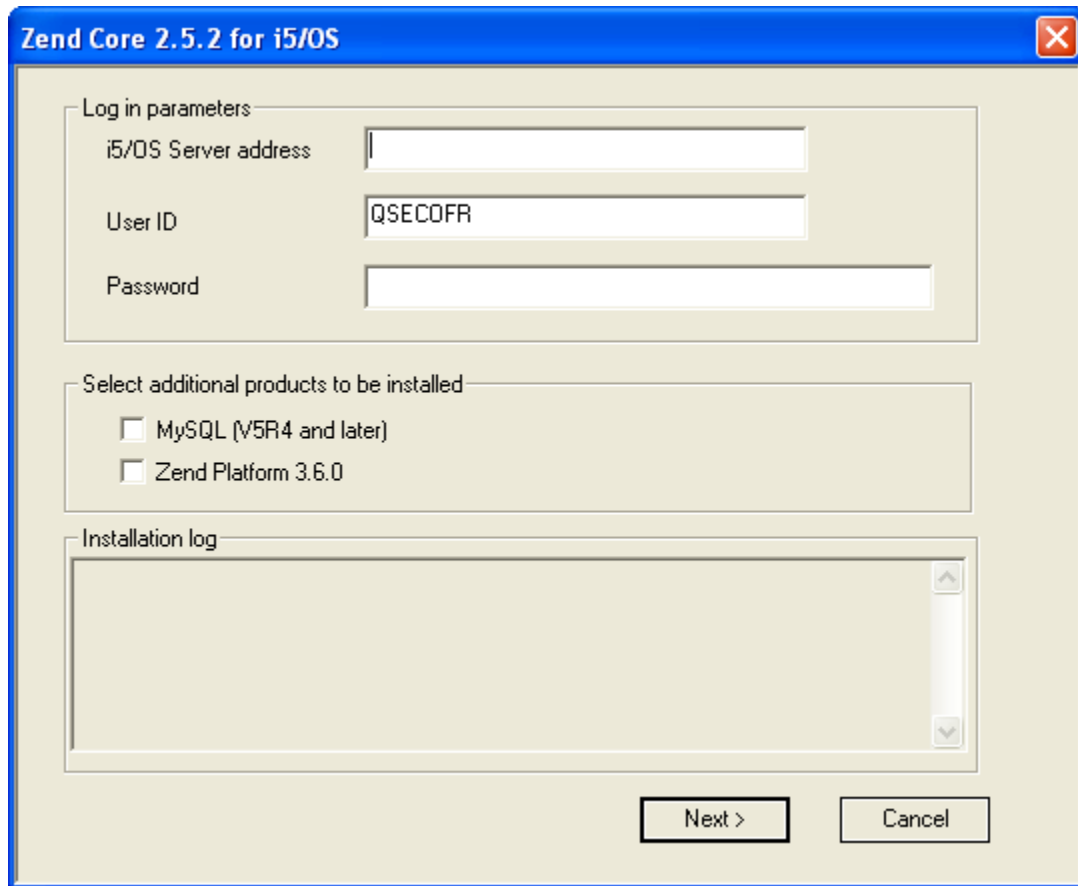


Figure 16 - i5/OS login details

7. Enter the following details:
 - i5/OS Server address - Your i5/OS server TCP/IP address.
 - User ID - Your i5/OS login User ID.
 - Password - Your i5/OS login password.
8. Mark the relevant checkboxes for MySQL and/or Zend Platform 3.6.0 to be installed together with Zend Core.

Note:

The minimum supported i5/OS version for MySQL installation is V5R4. In addition, if your server language is not English, you must sign on using a user profile that has CCSID set to 37 in order to install MySQL. To do this, run the command "CHGUSRPRF USRPRF(QSECOFR) CCSID(37)" in your i5/OS server.

See the '[Testing your MySQL Connection using Zend Studio](#)', section, above, for more on connecting to the MySQL database.

9. Click Next.
Details of the installation process will appear in the 'Installation log' window.
10. Once the installation process has completed, an installation details screen will appear:



Figure 17 - Installation Details

11. See the '[Getting Started](#)' section, below for more information on logging in to your Zend Core Web Administration GUI, and the Zend Core Setup Tool section for more on using the Zend Core Setup Tool.
12. Click Next.

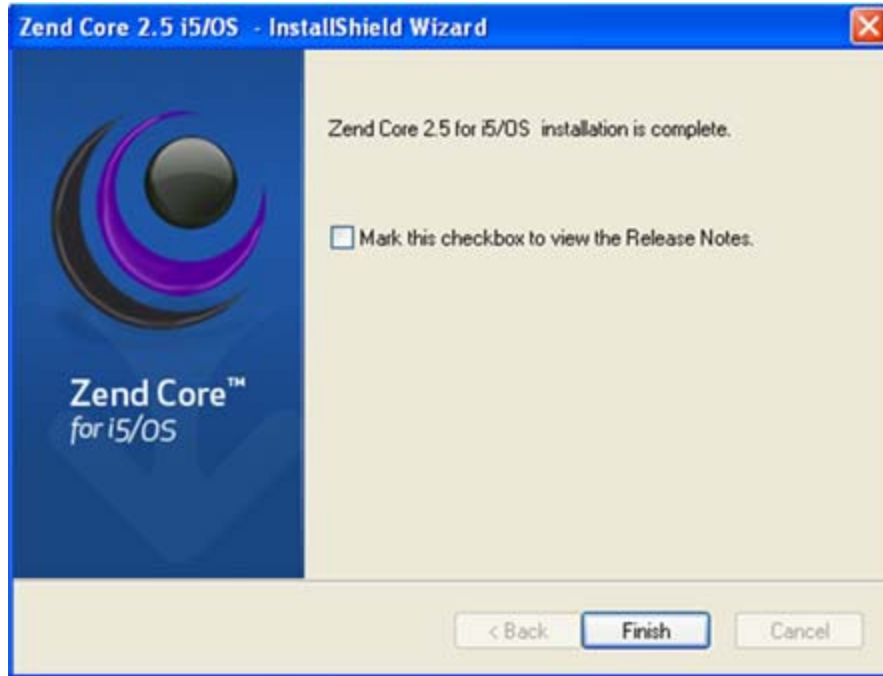


Figure 18 - Installation Complete

13. An installation confirmation screen will appear.
14. Mark the checkbox to view the Zend Core 2.6 for i5/OS Release Notes.
15. Click Finish to exit.

Upgrading Zend Core for i5/OS

There are several options for upgrading Zend Core for i5/OS. These options change according to the version you may have already installed on your system.

Installing Zend Core for i5/OS 2.6 over previous Zend Core for i5/OS versions

Installing Zend Core 2.6 over an existing installation of Zend Core automatically upgrades the previous version installed in your server.

Note:

You can only overwrite Zend Core versions 1.6 onwards. To overwrite versions 1.4 and 1.5, you must first uninstall the previous versions. (See 'Uninstalling Zend Core for i5/OS, below).

When the Zend Core for i5/OS 2.6 installation is run, the RSTLICPGM command creates a copy of the Zend Core library and directories as follows:

- The ZENDCORE library is copied to ZC+timestamp library
- /usr/local/zend is copied to /usr/local/zend+timestamp directory
- /www/zendcore is copied to /www/zendcore+timestamp directory

To transfer these settings to your new Zend Core for i5/OS installation, copy files such as the Apache configuration file and PHP.INI from the saved Zend Core directories to the new Zend Core for i5/OS 2.6 installation directories.

Note

If Zend Platform (1ZCORE5 option 1) is also installed, uninstall this option using the DLTLICPGM command (DLTLICPGM LICPGM(1ZCORE5) OPTION(1)) before running the Zend Core upgrade installation.

Updating from Alpha or Beta Level Versions of Zend Core for i5/OS

Remove any earlier Alpha or Beta level versions prior to installing newer versions of Zend Core for i5/OS. The installer scans the system to identify earlier versions and will not permit the installation of newer versions if an earlier version is detected.

The method to use to remove a pre-release of the product depends on the version currently installed on your system.



To uninstall an Alpha or Beta version of Zend Core for i5/OS:

1. If Zend Core appears in the licensed program list, follow the uninstall steps under "[Uninstalling Zend Core for i5/OS](#)", below.
2. -Or- If Zend Core for i5/OS does not appear in the licensed program list (meaning that you have an Alpha version), perform the following steps:
 - i. Sign on a 5250 session to the i5/OS system.
 - ii. Run the following command to call the uninstall program:
- iii. The uninstall process will not remove the ZENDCORE library, therefore the following command should also be run to delete it:

```
CALL ZENDCORE/ZCCRMVPROD
```

```
DLTLIB LIB(ZENDCORE)
```

Uninstalling Zend Core for i5/OS

In order to save your current Zend Core product library and files installed on your server, follow the installation steps detailed in the section "Upgrading Zend Core For i5/OS", above.



To uninstall Zend Core for i5/OS:

1. Sign on a 5250 session to your i5/OS system, using a user profile of *SECOFR user class with all special authorities.
2. Run the following Delete Licensed Program (DLTLICPGM) command to uninstall Zend Core for i5/OS:

```
DLTLICPGM LICPGM(1ZCORE5)
```

Once the programme has been uninstalled, the following message will be displayed:
"r; *PGM objects for product 1ZCORE5 option *BASE release V5R4M0 (or V5R3M0) deleted. Objects for product 1ZCORE5 option *ALL release *ONLY deleted".

Note:

The uninstaller deletes Zend Core product library and files. Therefore, to prevent data loss, backup the Apache configuration files and your application directories in /www/zendcore/htdocs for future reference.

Note:

The DLTLICPGM command will also remove Zend Platform for i5/OS (1ZCORE5 option 1) if installed.

Getting Started

General Information

Zend Core Environmental Variables

The following items are Zend Core Environmental Variables:

Item	Explanation
SBS	Subsystem
JOBQ	Job Queue
JOBID	Job Description
CLASS	Responsible for process attribute time slots from the CPU.

Zend Core Subsystem

Zend Core auto startup jobs such as PRNGD and APACHE are grouped, and run under the Zend Core subsystem.

Logging In

Once the installation process has completed, you will be ready to login to your Zend Core Administration Web GUI.



To access the Zend Core Administration Web GUI :

1. Enter your i5/OS machine's IP, and port number 89 as follows:

http://<i5_TCP_address>:89

e.g. http://10.1.1.36:89

The Zend Core for i5/OS Welcome Screen will appear.

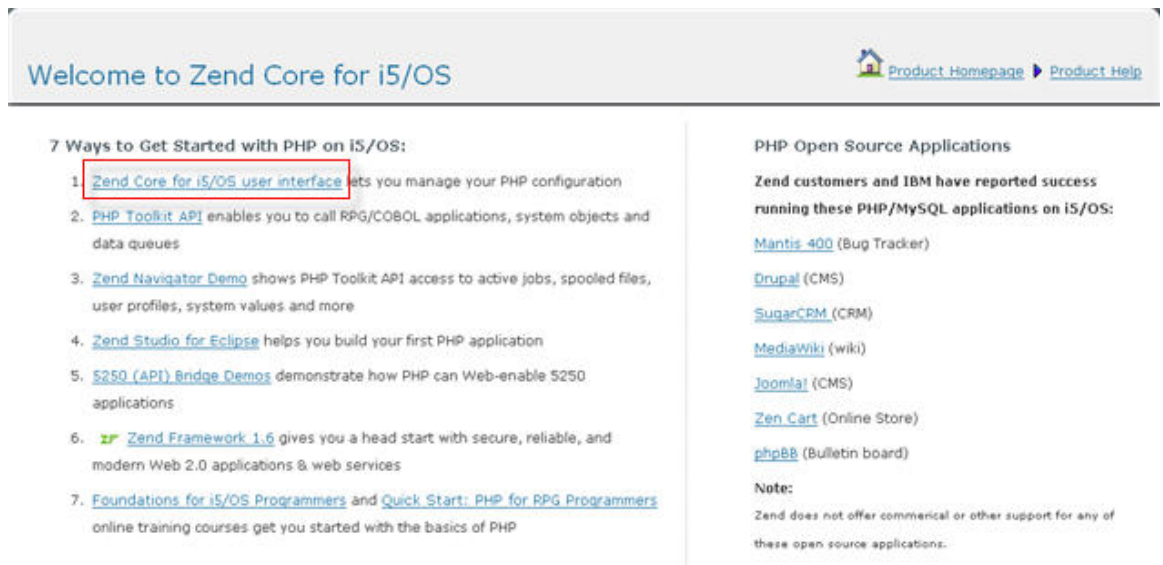



Figure 19 - i5 Welcome Screen

2. Click the 'Zend Core administrative interface' link.
The Zend Core for i5/OS login screen will appear.



Figure 20 - Zend Core Login Screen

3. To login, type the password you defined in the installation process and click the arrows  .
(If you installed Zend Core for i5/OS in silent mode, the default password will be "zend".)
4. Your Zend Core Administration Web GUI will open.

Refer to the Zend Core for i5/OS User Guide for more on using Zend Core.

Changing your Zend Core GUI Password

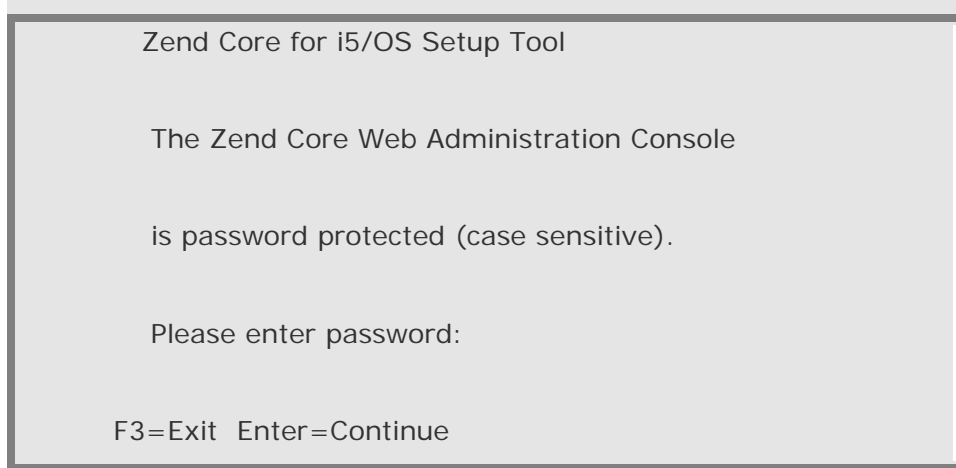
Your Zend Core login password can be changed from the Zend Core Setup Tool in case it is misplaced or needs to be changed.

To change your password:

1. Open the Zend Core Setup Tool by running the following command in your i5/OS emulation screen:

```
GO ZENDCORE/ZCMENU
```

2. Select Option 1 - Set Zend Core Web Administration Console password.



Change Password - Zend Core Setup Tool

3. Follow the instructions and confirm your selection.
4. You must restart your web server for the settings to take effect.

To restart your web server:

In the Zend Core Setup Tool main menu, select Option 5 - Service Management menu and then select Option 6 - Restart Apache server instance.

Zend Core Setup Tool

The Zend Core for i5/OS Setup Tool allows you to configure all aspects of your Zend Core system, and lets you download and install Updates and additional components.

The Zend Core for i5/OS Setup Tool can be opened by logging into your i5/OS emulation screen and running the following command:

```
go zendcore/zcmenu
```

The Zend Core Setup Tool has 6 main options:

```
ZCMENU          Zend Core for IBM i5/OS Setup Tool
                System:  I5RND5R3

Select one of the following:
1. Set Zend Core Web Administration Console password
2. Update via Zend Network menu
3. Run Support Tool
5. Service Management menu
6. MySQL Management menu
7. System Information and Server IDs
90. Signoff

Selection or command
===>
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F23=WRKUSRJOB
```

Figure 21 - Zend Core Setup Tool

1. [Set the Zend Core Web Administration Console Password](#) - Provide a password for accessing the Zend Core Web Administration GUI.
2. [Update via Zend Network menu](#) - The Zend Core for i5/OS update mechanism is used to upgrade installations. The Zend Network update mechanism enables automatic downloads and installation of Updates.

3. [Run Support Tool](#) - The Zend Support Tool is a tool for gathering information about user configurations and setup. This tool allows the Zend Support Team to solve problems in a more comprehensive and efficient way.
5. [Service Management](#) - Manages all required services, e.g. Zend Core Subsystem and Apache Control.
6. [MySQL Management Menu](#) - Allows you to control your MySQL processes and services.
7. [System Information and Server IDs](#) - Displays i5/OS System information.

Option 1 - Set the Zend Core Web Administration Console Password

Allows you to change your password for accessing the Zend Core Administration Web GUI.



Figure 22 - Zend Core Web Administrative Console Password Screen

Enter a new password and press Enter.

You must restart your web server after changing your password.

Option 2 - Update via Zend Network

Note:

You must be registered for a Zend Support Subscription (Silver, Gold or Platinum) in order to have access to Updates.

By downloading Zend Core for i5/OS, you have received a one year, first-level Silver Support Subscription.

For more on Zend Support Subscriptions, and to register, see the Zend Core Support page at <http://www.zend.com/en/products/core/support>.

```
ZCUMENU          Zend Core for IBM i5/OS Setup Tool
                System:  I5RND5R3
Select one of the following:
1. Change Network ID user/password
2. Add Updater daily scheduled job
3. Work with Updater scheduled jobs
4. Remove all Updater scheduled jobs
5. Update Zend Core components
6. Remove Zend Core components
7. Rollback options
Selection or command
===>
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F23=WRKUSRJOB
```

Figure 23 - Zend Core Setup Tool- Update via Zend Network

The Update via Zend Network menu includes the following options:

1. **Change Network ID user/password** - Allows you to specify/edit your Zend Core Support Subscription Network User ID and Password. You can also use your Zend account login details.

You must enter a Zend Core Support Subscription Network User ID and Password in order to be able to find and install Updates.

Note:
 For more on Zend Support Subscriptions, and to register, see the Zend Core Support page at <http://www.zend.com/en/products/core/support>.

2. **Add Updater daily scheduled jobs:**
 - Enter the time to check for daily updates (or accept the 01:00 AM default) and click Enter.
 - Select one of the following options for the Updater to perform at the specified time:
 - List available Updates - Creates a file in your temp directory containing all available Updates.
 - Get available Updates - Downloads and installs all available Updates.
3. **Work with Updater scheduled jobs** - Select the required parameter or job and select an action by entering the appropriate number option.

```

Work with Job Schedule Entries                                I5RND5R3
10/21/07 15:25:39
Type options, press Enter.
2=Change 3=Hold 4=Remove 5=Display details 6=Release
8=Work with last submission 10=Submit immediately Next
-----Schedule-----          Recovery Submit
Opt Job      Status Date    Time    Frequency  Action  Date
ZC_UPD_LST  SCD   *ALL    01:00:00 *WEEKLY  *SBMRLS
10/22/07                                Bottom
Parameters or command
===>
F3=Exit F4=Prompt      F5=Refresh F6=Add  F9=Retrieve
F11=Display job queue data F12=Cancel F17=Top  F18=Bottom
    
```

Figure 24 - Work with Updater Scheduled Jobs

The options are:

2. Change
 3. Hold
 4. Remove
 5. Display details
 6. Release
 8. Work with last submission
 9. Submit immediately.
4. **Remove all Updater Scheduled Jobs** - Automatically removes scheduled Updating jobs.
 5. **Update Zend Core Components** - Allows you to find and install Updates through the Zend Update Network, or install Zend Update Packages you have downloaded from the Zend Update site.

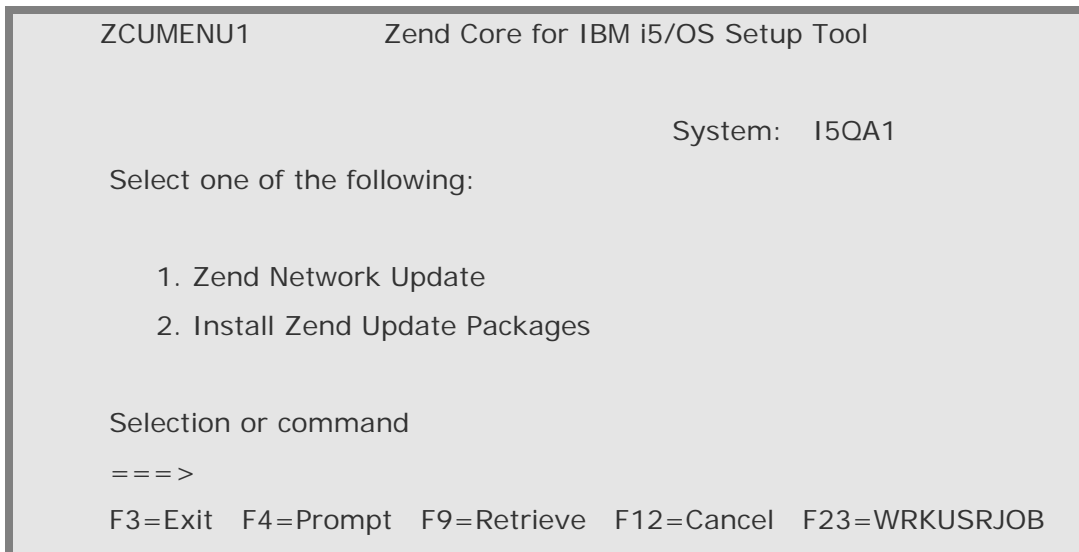


Figure 25 - Update Zend Core Components menu

- Select Option 1 - Zend Network Update - to view and install available Updates.

Note:

You must have configured your Zend User ID and Password in Zend Core during the installation process or using the Setup Tool (see the 'Change Network ID user/password' option, above) to be able to download Updates.

- -Or- Select Option 2 - Install Zend Update Packages - if you have previously downloaded Zend Update packages from the Zend Update Network site.

These are available from the Zend Update page, located at <http://www.zend.com/en/products/core/updates>.

For full instructions on how to install downloaded Zend Update Packages, see the 'Updating Zend Core' topic in the Zend Core for i5/OS User Guide.

6. **Erase Components** - Allows you to delete Zend Core components, including libraries and extensions. If you have chosen to delete a component which other installed components are dependent upon, a prompt will appear asking for confirmation of the components' deletion.
7. **Rollback options**- Allows you to view and carry out Rollbacks, or to delete Rollback information. Rollbacks will delete Updates and revert your Zend Core back to a previous state.

For more information, see the 'Rollbacks' section under the 'Updating Zend Core' chapter in the Zend Core for i5/OS User Guide.

Option 3 - Run Support Tool

The Zend Support Tool is a tool for gathering information about your system configuration and setup. This tool allows the Zend Support Team to solve problems in a more comprehensive and efficient way.

To create a file containing the above system information which can be sent to the Zend Support Team, specify the destination directory where the file will be created. After the file is created it can be sent to Zend Support if the need for support arises. See [Appendix A - Support Tool Information](#) for a complete list of the information collected by the Support Tool.

Note:

By downloading Zend Core for i5/OS, you have received a one year, first-level Silver Support Subscription.

For more on Zend Support Subscriptions, and to register for other programs, see the Zend Core Support page at <http://www.zend.com/en/products/core/support>.

Option 5 - Service Management

This menu allows you to control your Zend subsystem, Apache web server and the PHP toolkit service I5_COMD.

```

ZCAMENU          Zend Core for IBM i5/OS Setup Tool
                                     System:  I5RND5R3

Select one of the following:

    1. Start Zend Core Subsystem
    2. Stop Zend Core Subsystem

    4. Start Apache server instances
    5. Stop Apache server instances
    6. ReStart Apache server instances
    7. Additional Apache options
    8. Start i5_COMD service
    9. End i5_COMD service

   11. Add restart ZC_STR_PRN job to scheduler
   12. Work with ZC_STR_PRN scheduled jobs

Selection or command
===>

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F23=WRKUSRJOB

Zend Core daily schedule prngd restart not set

```

Figure 26 - Service Management Menu

The Service Management menu includes the following options:

1. Start Zend Core Subsystem - Starts the Zend Core process
2. Stop Zend Core Subsystem - Stops the Zend Core process
4. Start Apache server instances - Starts Apache
5. Stop Apache server instances - Stops Apache
6. ReStart Apache server instances - Restarts Apache

7. Additional Apache options - Allows you to start/stop additional instances in the IBM HTTP or PASE Apache Servers.

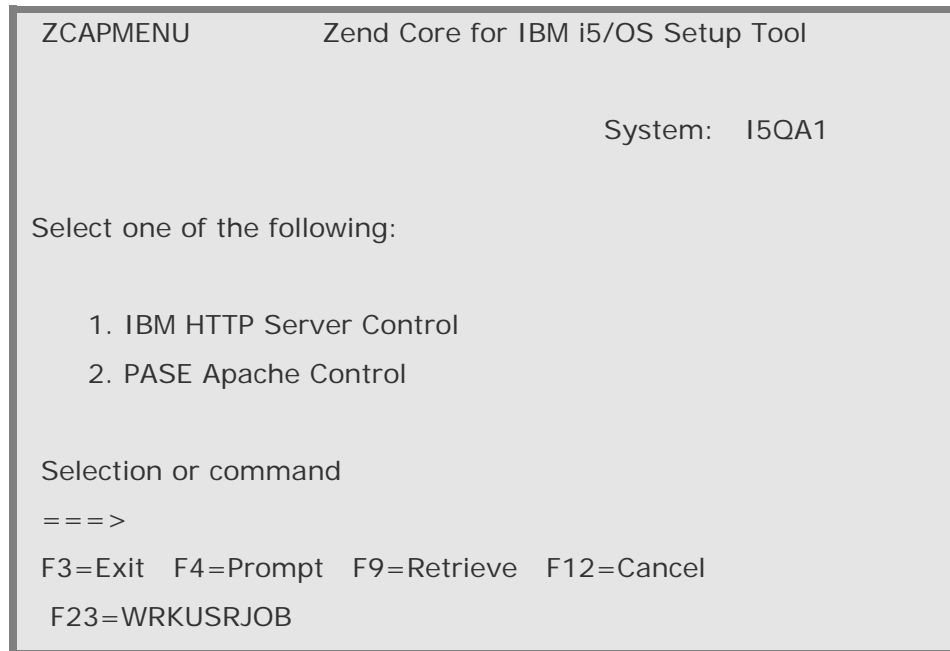


Figure 27 - Additional Apache Options

- Select Option 1 - IBM HTTP Server Control - to control your IBM HTTP Server instances. In the following screen, enter the Instance Name and select the action you would like to perform by entering S (start), E (end) or R (restart) in the 'Action' category.
- -Or- Select Option 2 - PASE Apache Control to control your PASE Apache instances. In the following screen, enter the configuration file name's location and name and select the action you would like to perform by entering S (start), E (end) or R (restart) in the 'Action' category.

8. Start i5_COMD service - Allows you to configure your PHP Toolkit Daemon.

```

Start i5_COMD Daemon (ZCCSTREACD)

Type choices, press Enter.

Library . . . . . > ZENDCORE      Product library ZENDCORE
i5_COMD Service Port number . . 6078      Character value, *DFT, *JOB
Enable Prestart Jobs . . . . . *OFF      *ON, *OFF, *AUTO
Restart i5_COMD if running . . . . *NO      *YES, *NO, *YES, *NO

Bottom

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Figure 28 - i5_COMD Daemon Options

Note:
 If you change the i5_COMD Service Port number, the daemon will open on a different TCP/IP port number. The new port number (i5comm.port entry) is updated in the /usr/local/Zend/Core/etc/php.ini file.

9. End i5_COMD service - Stops the PHP Toolkit Daemon.
11. Add restart ZC_STR_PRN job to scheduler - Schedules a job to restart the ZC_STR_PRN service. This helps prevent excessive memory consumption if the Zend Subsystem is rarely restarted.
12. Work with ZC_STR_PRN scheduled jobs - Allows you to configure the scheduled ZC_STR_PRN restart jobs.

Note:
 To apply changes, stop and start the Zend Core subsystem by selecting Options 2 (start) and 1 (stop) on the System Management Menu.

Option 6 - MySQL Management menu

```
ZCMYSQL                Zend MySQL management.
                        System:  I5QA1
Select one of the following:
1. Start MySQL subsystem
2. Stop MySQL subsystem
4. Start MySQL daemon
5. Stop MySQL daemon
Selection or command
====>

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F23=WRKUSRJOB
Copyright Zend Technologies LTD (2007)
```

Figure 29 - MySQL Management Menu

The MySQL Management menu includes the following options:

1. Start MySQL subsystem - Starts the MySQL process
2. Stop MySQL subsystem - Stops the MySQL process
3. Start MySQL daemon - Starts the MySQL service. The MySQL Daemon allows access to the MySQL database.
4. Stop MySQL daemon - Stops the MySQL service.

Note:

If MySQL is not installed, selecting the MySQL Management menu option will prompt you to install MySQL. See the [MySQL Installation](#) section, above, for more information.

Option 7 - System Information and Server IDs

Displays System Information.

```
System Information          Date: 3/19/07
-----
Time: 12:57:10
User: QA1

i5/OS version.....: V5R4M0
System Name.....: I5QA2
Serial Number.....: 10BE27C
Model.....: 825
Processor Group.....: P30

Server IDs

I: 85VR2-WXL3V-CXRH8-AQN52  A: ND8N5-BU66X-5932D-9ERHX

C: DCMW7-P4YBD-YUJBQ-V6KSX  L: 95TJ2-NPYM3-52RGR-FA9YK

F3 - EXIT
(C) Copyright Zend Technologies, Ltd 2007
```

Figure 30 - System Information

The following information is displayed:

- i5/OS version
- System Name
- Serial Number
- Model
- Processor Group
- Server IDs

Technical Support

Zend Technologies provides a wide range of resources for obtaining additional information and support:

Zend Support Center

The Zend Support Center is a portal for information on all Zend Product related issues.

From the Zend Support Center (<http://www.zend.com/support-center>) you can access:

Zend Forums

Hosted user forums for the Zend product user community. See what other users have to say and get answers directly from the Zend Support team.

Visit: <http://www.zend.com/forums>

Zend Support Knowledge Base

The Zend Knowledge Base contains an extensive range of articles on commonly encountered problems, troubleshooting, tips and workarounds.

Search the Knowledge Base for any Zend product related issue at

<https://www.zend.com/en/support/knowledgebase.php>.

Online Documentation

The Zend Product Online Documentation Center is an easily browseable and searchable resource for accessing the most updated information on using all Zend Products.

Visit: <http://files.zend.com/help>

Open a Support Ticket

If you did not find the answer to your question in any of the Support resources, you can open a ticket with the Zend Support team, who will answer each ticket on an individual basis.

This can be done through <https://www.zend.com/helpdesk/newticket.php>.

Zend Newsletter

Zend's monthly Newsletter contains the hottest updates, special promotions and useful developer information.

To get the newsletter, log in to your Zend account at <https://www.zend.com/en/user/myzend> and mark the 'Yes, I want to receive Zend information' checkbox in the Communication Preferences category.

Zend Developer Zone

The Zend Developer Zone is the leading resource center for PHP developers, where you can learn about PHP and meet the experts.

The Zend Developer Zone features the following:

- The PHP 5 Info Center
- Articles and Tutorials
- PHP and PEAR News Weeklies
- Worldwide Job Classifieds

Visit: <http://www.zend.com/devzone>.

Appendix A - Support Tool Information

The following information will be collected by the Zend Support Tool:

- access_log
- df.out
- error_log
- Files
- httpd.conf
- httpd.conf.orig
- httpd.pid
- httpd-autoindex.conf
- httpd-dav.conf
- httpd-default.conf
- httpd-info.conf
- httpd-languages.conf
- httpd-manual.conf
- httpd-mpm.conf
- http-multilang-errordoc.conf
- http-ssl.conf
- http-userdir.conf
- http-vhosts.conf
- ls-LR.out
- magic
- mime types
- php.ini
- php_error_log
- ps.out
- registry.xml
- uname.out