



# **JBM Gateway Management Utility Server Specifications And Installation Procedures**

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## GMU Specifications

### ***Recommended Hardware:***

#### **Minimums**

Pentium 4, 2 Ghz or more  
2 Gigs RAM minimum  
120 GB hard driver or larger

#### **Recommended Production Optional Components**

Redundant Power Supplies  
Redundant Network Interfaces  
RAID 5 Disk Storage

### ***Recommended Software:***

Redhat/Fedora Core 8 or higher  
Apache 2.x  
MySQL 5.x  
PHP 5.x w/Pear  
Perl

## Software Installation Procedures:

Install the Linux OS onto the server.

**NOTE:** *Ensure SELinux is disabled when installing the Linux OS. If the system you have is pre-built, open the /etc/selinux/config file and ensure the line SELINUX= shows "disabled". If not make the change and reboot the GMU server.*

Download and install the following software packages in the following order:

1. Apache 2.2
  - a. Type **yum install httpd** <Enter>
  - b. YUM will locate the files to download and ask for confirmation; Type **y** <Enter>
  - c. Type **vi /etc/httpd/conf/httpd.conf** <Enter>(May Vary on your System)
  - d. Edit the line: Listen 80
    - a. Should read: Listen 18080
  - e. Edit the line: DirectoryIndex index.html index.html.var
    - a. Should read: DirectoryIndex index.html index.html.var index.php
  - f. Edit line under the #AddType application/x-tar .tgz
    - a. Should read; AddType application/x-httpd-php .php .php3
  - g. In a clear space above <Directory "/var/www/html">
    - a. Should read:  
<Directory /var/www/html/jbm\_mgmt>  
    AllowOverride Options FileInfo  
</Directory>
  - h. Save and exit the file.
  - i. Type **service httpd restart** <Enter>
  - j. Type **chkconfig - --add httpd** <Enter> to make sure httpd starts up when rebooted
2. PHP 5.2.x or higher
  - a. Type **yum install php** <Enter>
  - b. YUM will locate the files to download and ask for confirmation; Type **y** <Enter>
  - c. Type **yum install php-mysql** <Enter>
  - d. YUM will locate the files to download and ask for confirmation; Type **y** <Enter>
  - e. Type in **yum install php-pear** <Enter>
  - f. YUM will locate the files to download and ask for confirmation; Type **y** <Enter>

3. MySql 5.0.x or higher
  - a. Type **yum install mysql-server <Enter>**
  - b. YUM will locate the files to download and ask for confirmation; Type **y <Enter>**
  - c. Start the mysqld by typing **service mysqld start <Enter>**
  - d. Add a password to root user; Type **mysqladmin -u root password <password of your choice> <Enter>**
  - e. Type **chkconfig - --add mysqld <Enter>** to make sure mysqld starts up when rebooted.
  
4. PEAR and DB classes <http://pear.php.net/DB>
  - a. Download DB-<version>.tgz
  - b. Type **pear install DB-<version> <Enter>**
    - i. If the install gives an error "WARNING: channel "pear.php.net" has updated it's protocols, use "channel-update pear.php.net" to update; Type in **pear channel-update pear.php.net <Enter>**

## JBM Software Download and Installation

The JBM software is located on a Web site secured with a Username and Password setup. You will be given a **temporary** username and password to login to the download site to retrieve the files necessary for the GMU installation.

The URL is <http://mygmu.com:18080/downloads/>

Once you successfully login, you will see the files mentioned below for you to download.

### *Zend Optimizer*

#### Zend Optimizer download:

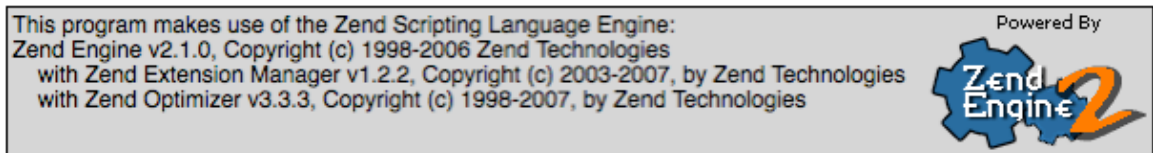
<http://mygmu.com:18080/downloads/ZendOptimizer-3.3.3-linux-glibc23-i386.tar.gz>

[http://mygmu.com:18080/downloads/ZendOptimizer-3.3.3-linux-glibc23-x86\\_64.tar.gz](http://mygmu.com:18080/downloads/ZendOptimizer-3.3.3-linux-glibc23-x86_64.tar.gz)

#### Zend Optimizer Installation:

1. Choose One to download based on platform.
  - a. ZendOptimizer-3.3.3-linux-glibc23-i386.tar.gz = 32 bit
  - b. ZendOptimizer-3.3.3-linux-glibc23-x86\_64.tar.gz = 64 bit
2. Unpack and run the bin as root.
  - a. **cp ZendOptimizer-3.3.3-linux-glibc23-<platform>.tar.gz /root/.<ENTER>**
  - b. **tar xvzf ZendOptimizer-3.3.3-linux-gilbc23<platform>.tar.gz<ENTER>**
  - c. **cd ZendOptimizer-3.3.3-linux-glibc23-<platform><ENTER>**
  - d. **sh install.sh<ENTER>**
    - i. It will prompt you for the location for the directory to load Zend to, i.e. /usr/local/Zend/. Select default with "y" and press **<ENTER>**
    - ii. It will prompt you for the proper Apache apachectl file location.
      - (1) If you have more than one instance of Apache running, you will need to verify which Apache is running for the current GMU implementation.
      - (2) If you do not see any Apache running, you will need to use **<CTRL + C>** to exit out of the Zend installation, then start the service with the command: **service httpd start** and run **sh install.sh** to restart the process.

- (3) Once you have determined which Apache is running on the GMU; type in the full path to the location of the apachectl file and press the **<ENTER>**.
- iii. You will be prompted for the location of the PHP.ini file.
  - (1) If the PHP.ini file is not located within the install.sh process, you will need to use **<CTRL + C>** to exit out of the Zend installation, then ensure PHP 5.2.x or higher gets installed following the directions listed in step 2 of the Software Requirements of this document.
  - (2) If you do have the PHP.ini file, i.e. /etc/php.ini; choose the default with "y" and press **<ENTER>**.
- e. Verify the Zend Optimizer was installed correctly.
  - i. Login to the GMU.
  - ii. At the end of the URL address [http://<IP\\_Address\\_of\\_GMU>:18080/jbm\\_mgmt/unit\\_status.php](http://<IP_Address_of_GMU>:18080/jbm_mgmt/unit_status.php), replace the unit\_status.php with phpinfo.php and press **<ENTER>**.
  - iii. At the bottom of the first section you should see the following:



The Zend Optimizer is now fully installed onto the GMU system.

## **GMU Software**

### **GMU Software download:**

Download the GMU software and follow the installation instructions below. The password for the GMU software will be provided in a separate email.

GMU v1.16

[http://mygmu.com:18080/downloads/jbm\\_gmu\\_118\\_install.zip](http://mygmu.com:18080/downloads/jbm_gmu_118_install.zip)

### **GMU Installation:**

On the Linux server :

```
cd /tmp/
```

Upload the GMU zip file which was downloaded. Run the follow commands: **unzip <filename.zip><ENTER>**, replace filename.zip with the downloaded package name.

```
cd jbm_gmu_118_install<ENTER>
```

```
./installgmu.pl<ENTER>
```

Some information which will be needed to install :

The path to the Apache Web root ( **/var/www/html** )

The user/group which Apache server runs ( default group: **apache** )

The MySQL user name which will be allowed to access the database, and create new databases ( **root** )

The password for the MySQL user ( **password of your choice** )

Once installed and Apache is configured, point a web browser to the server <http://<ip address of server>:18080/> . You should see a login screen. The default login/password is jbmadmin/gateway