Running Yii2 on HHVM

HipHop Virtual Machine (HHVM) is a process virtual machine from Facebook based on just-in-time (JIT) compilation. HHVM transforms PHP code into intermediate HipHop bytecode (HHBC) and dynamically translates PHP code into machine code, which will be optimized and natively executed.

Getting ready

Create a new yii2-app-basic application using the Composer package manager, as described in the official guide at <http://www.yiiframework.com/doc-2.0/guidestart-installation.html>.

How to do it...

Follow these steps to run Yii on HHVM:

1. Install the Apache2 or Nginx web server.
2. Follow the guide for installing HHVM on Linux or Mac available at

<https://docs.hhvm.com/hhvm/installation/introduction>. For example, on Ubuntu you must run the following commands:

**sudo apt-get install software-properties-common**

**sudo apt-key adv --recv-keys --keyserver hkp://keyserver.ubuntu.com:80 0x5a16e7281be7a449**

**sudo add-apt-repository "deb <http://dl.hhvm.com/ubuntu> $(lsb\_release -sc) main"**

**sudo apt-get update**

**sudo apt-get install hhvm**

**After installing, you will see the following tips in your terminal:**

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* **HHVM is installed.**

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* **Running PHP web scripts with HHVM is done by having your**
* **webserver talk to HHVM over FastCGI. Install nginx or Apache,**
* **and then:**
* **$ sudo /usr/share/hhvm/install\_fastcgi.sh**
* **$ sudo /etc/init.d/hhvm restart**
* **(if using nginx) $ sudo /etc/init.d/nginx restart**
* **(if using apache) $ sudo /etc/init.d/apache restart**

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* **Detailed FastCGI directions are online at:**
* **<https://github.com/facebook/hhvm/wiki/FastCGI>**

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* **If you're using HHVM to run web scripts, you probably want it**
* **to start at boot:**
* **$ sudo update-rc.d hhvm defaults**

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* **Running command-line scripts with HHVM requires no special setup:**
* **$ hhvm whatever.php**

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* **You can use HHVM for /usr/bin/php even if you have php-cli**
* **installed:**
* **$ sudo /usr/bin/update-alternatives \**
* **--install /usr/bin/php php /usr/bin/hhvm 60**

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1. Try to start the built-in server manually for your site: