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