Due prior to submitting Lab 4 later this semester

Completing this assignment will automatically result in a grade of 100% on Homework #2, and is required for Lab 4.

Requirements: When your web site is successfully set up, take a screen capture of your host machine's browser **_successfully_** accessing phpMyAdmin on your server. Send this screen capture to the professor's email (as listed on class syllabus, **akaplan@csun.edu**). **Only then** may you proceed to Lab 4.

1)   Download the ISO for any recent **32-bit** Linux distribution
   a. If you are not familiar with Linux you may download Fedora 21 KDE Plasma Desktop Spin from http://spins.fedoraproject.org/kde/#downloads
         i.   Click the button "Download Now!" under 32-bit PC Edition
         ii. When prompted "Do you want to open or save
                  Fedora-Live-KDE-i686-21-5.iso...?" click Save.

2)   Open Oracle VM VirtualBox and make a new virtual machine (at machine menu)
   a. (If you wish to do Homework 2 and Lab 4 on machines other than those in JD 1538, you may download Oracle VM VirtualBox and install it on your local machine first)
   b. Walk through the wizard creating a Linux virtual machine using the ISO you downloaded in part 1

3)   Install Apache, PHP and MySQL on your Linux VM, and start these up. A nice guide showing how to do this exists here:
       https://www.digitalocean.com/community/articles/how-to-install-linux-apache-mysql-php-lamp-stack-on-centos-6

4)   Integrate PHP with Apache, create a database and one or more tables in MySQL, and use phpMyAdmin (http://www.phpmyadmin.net) to create a website that administers the MySQL database.

5)   Access the main phpMyAdmin page from a web browser on your host (Windows) machine.
   a. Take a screen capture of this, and email it to the professor.

SOME HELPFUL HINTS

1) "sudo chkconfig mysqld on" does not seem to work for most of these systems, as mysqld seems to have created a file: `/etc/init/mysql.override`

If you see this file, you may delete it so that the chkconfig works. If you still cannot get chkconfig working, no problem...it is not required for this homework. (You can simply pause your VM rather than stop or reset it, so it's always "up," and this will reduce the need to restart the mysql daemon.)

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2) Open the Firewall app (can be searched from the KVM/Fedora start menu) and place a checkbox next to http to let http traffic in.

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3) In /etc/httpd/conf.d/phpmyadmin.conf you will want to comment out the 2 lines near the top of the file that say "Require ..." and replace them with "Require all granted"

Example...

```
    <RequireAny>
         Require all granted
#        Require ip 127.0.0.1
#        Require ip ::1
    </RequireAny>
```

Note: this is very insecure, but will allow your PHPMyAdmin to be accessed from other machines over the network.

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4) The username and password for PHPMyAdmin (when entered from your browser) should match your MySQL login.