AWS

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Amazon Web Services

Amazon Web Services (AWS) is a massive collection of remote computing services over a plethora of systems that come together to make up one of the world's largest cloud computing platforms, hosted by Amazon.com cheaply and efficiently.

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Goal:

Using AWS and their EC2 (Elastic Compute Cloud), and other services:

Create Two Instances:

- A Free Windows Instance
- A Free Linux Instance
- Install LAMP (you may use a package to install everything)
- Install WAMP (you may use a package such as XAMPP)
- Create a demo webpage in PHP which has the following information:
 - o Your Name
 - o Your machines' name and DNS information
 - O Dynamic date and time (so the current date and time show when I hit the page)

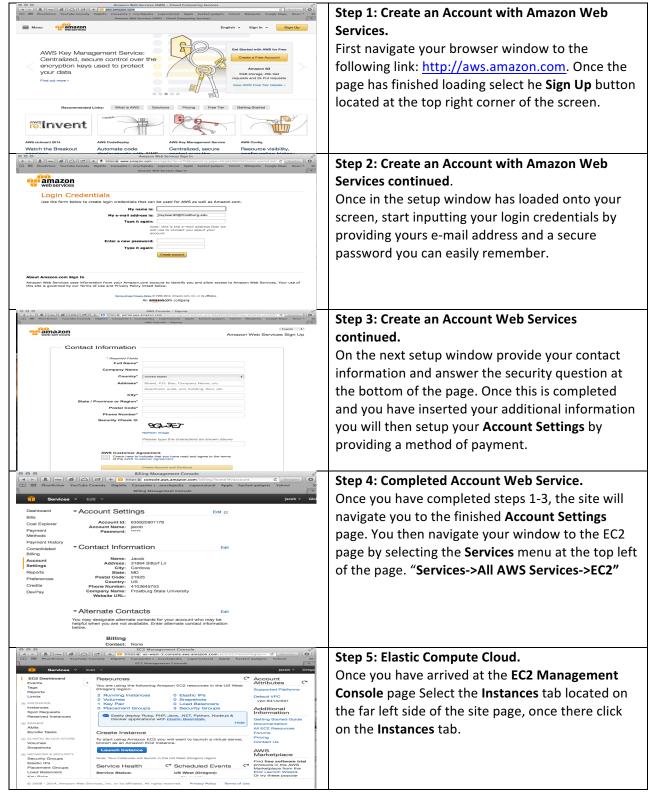
Downloads:

XAMPP – This file is 61MB, and contains all three packages (A+M+P). It defaults to installing Apache in a root directory, with PHP as a module. It optionally installs MySQL. It also optionally installs phpMyAdmin, Perl, and SQLYog. It also optionally installs documentation for Apache, MySQL, PHP, and phpMyAdmin. http://sourceforge.net/projects/xampp/?source=typ_redirect

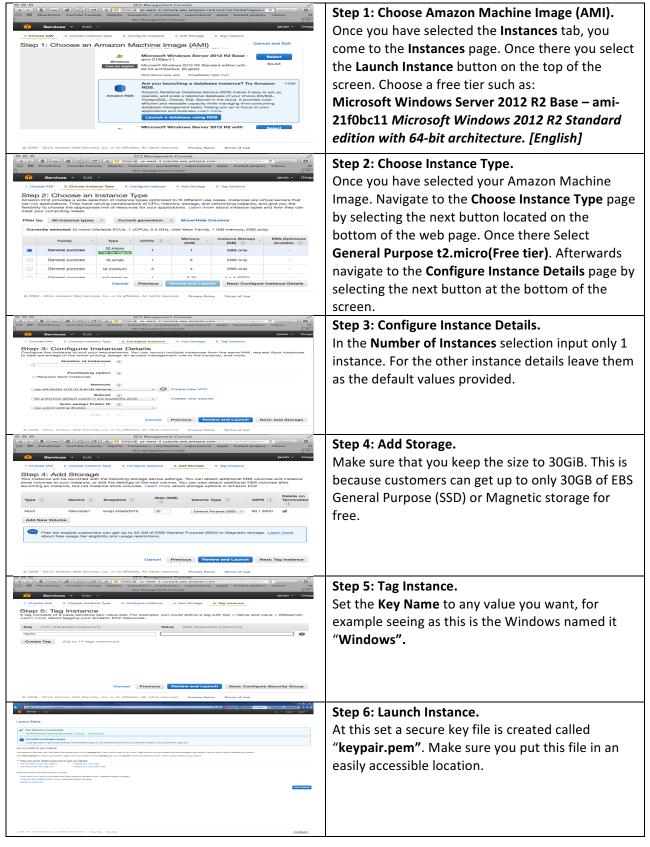
Wamp – WampServer - WampServer is a Windows web development environment. It allows you to create web applications with Apache2, PHP and a MySQL database. Alongside, PhpMyAdmin allows you to manage easily your databases.

http://hivelocity.dl.sourceforge.net/project/wampserver/WampServer%202/Wampserver%202.5/wampserver%202.5-Apache-2.4.9-Mysql-5.6.17-php5.5.12-32b.exe

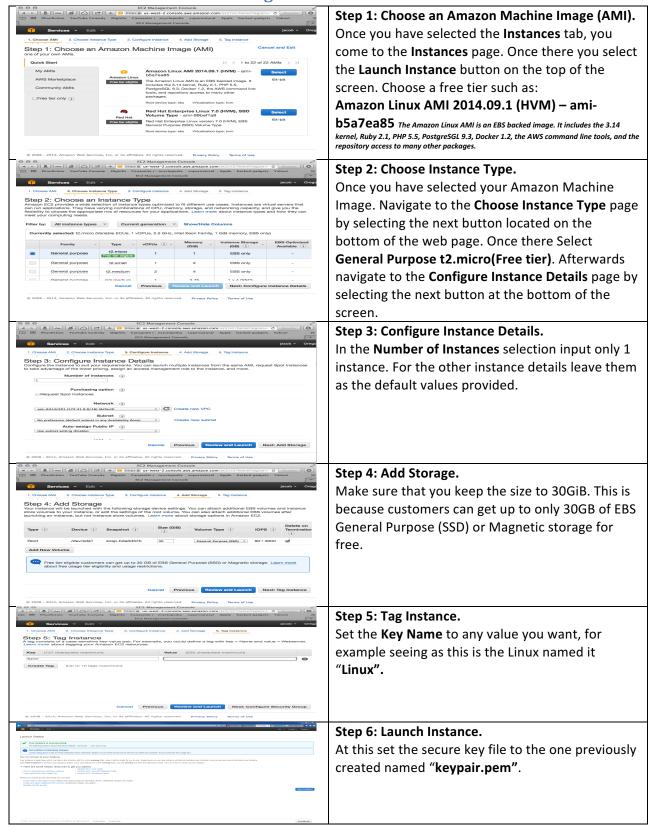
Setting up Amazon Web Services (AWS):



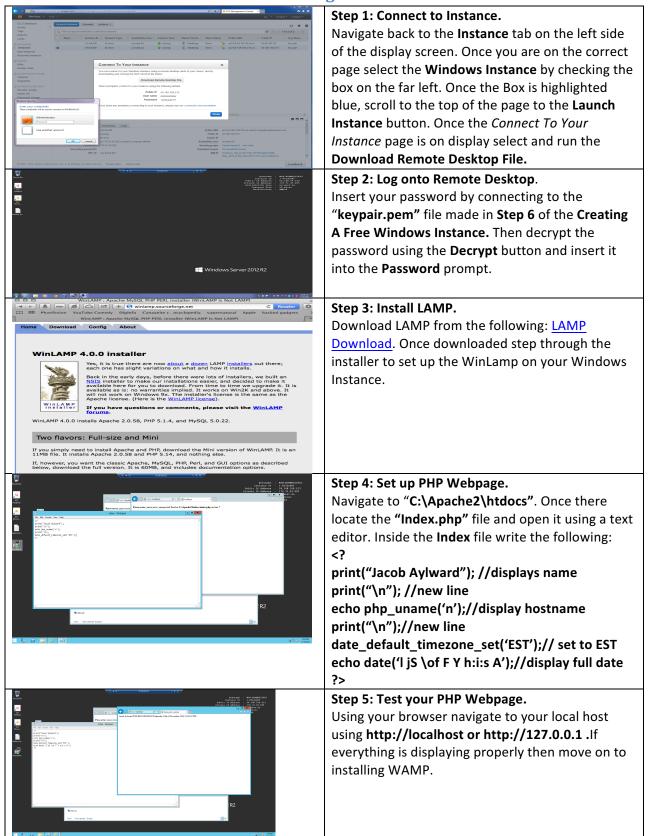
Creating a Free Windows Instance:



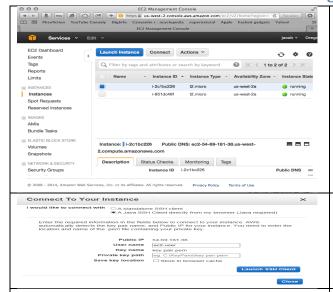
Creating a Free Linux Instance:



Installing LAMP:



Installing WAMP:



Step 1: Connect to Instance

Navigate back to the instance tab on the left side of the display screen. Once you are the correct page select the Linux Instance by checking the box on the far left. Then once the Box is highlighted blue scroll to the top of the page to the Launch Instance button. Once the Connect To Your Instance page is on display select the A Java SSH Client directly from my browser (Java required) under the I would like to connect with selection.

Step 2: Launch SSH Client.

Enter the Private key path to the location of your keypair.pem file. Example:

"C:\Users\jraylward0\Desktop\keypair.pem"



Step 3: Download And Install WAMP

Download WAMP file from: WAMP

Once the download is finished open the installer guide. After the installer has completed navigate to the **Java Client** Browser and follow these steps:

1.) Change permissions on the installer Chmod 755 xampp-linux-*-installer.run

2.) Run the installer

Sudo ./xampp-linux-*-installer.run

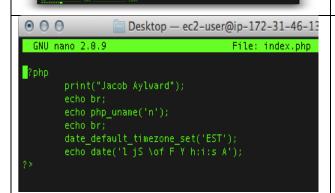
3.) Start the XAMPP

Sudo /opt/lampp/lampp start

4.) Open the Graphics tool (so helpful)

Cd /opt/lampp

Sudo ./manager-linux.run (or manager-linux-x64.run)



Starting XAMPP for Linux 1.8.3-5

ec2-user@ip-172-31-46-132 /]\$ 📗

XAMPP: Starting MySQL...ok. XAMPP: Starting ProFTPD...ok.

XAMPP: Starting Apache...already running.

Step 4: Change PHP file

Navigate to "otp/lamp/apache2/htdocs". Once there locate the "" file and open it using a prompt editor such as nano or vi. Inside the "index.php" file write the following:

print("\n"); // I changed this to echo br when I discovered \n is not a new line echo php_uname('n');//display hostname print("\n");//new line date_default_timezone_set('EST');// set to EST echo date('1 jS \of F Y h:i:s A');//display full date

Step 5: Start you WAMP

print("Jacob Aylward"); //displays name

Type the following in the **Java Client** or **ssh instance**:

Sudo /opt/lampp/lampp start
And now your **WAMP** should be up and running.

LAMP & WAMP Links:

WAMP Link: http://ec2-54-69-181-38.us-west-2.compute.amazonaws.com

LAMP Link: http://ec2-54-148-104-213.us-west-2.compute.amazonaws.com

Possible Errors:

If you receive an error message during the "Installing WAMP Step 2 Launch SSH Client", this is most likely because AWS will not allow users to connect to a key that is publicly viewable as seen below.

To fix this error simply insert the following command: chmod 400 "key pair name".pem and hit return.