

## Hacker Dojo Hello World Example

### Creating a Hello World Server

AWS allows you to have your own server in the cloud, no more servers in the garage. You can create either a windows or linux operating systems based server. We will go through the steps in this document.

### Enter in your HackerDojo supplied Amazon Credit

Sign up for AWS, you will need to create an Amazon account. Chances are you probably have one already setup. The same account you use to buy books from Amazon is used for charging you for Amazon services. Hopefully you will never see any charges to your credit card because we have provided you with an Amazon AWS credit courtesy Amazon Developer services.

After you have verified you have an Amazon account, go to your account "Payment Method" page. You will see a list of your credit cards you have used to buy things with at Amazon and on the bottom there is a button for credits. Click on it and you should be directed to a page which allows you to enter in your Amazon credit Hacker Dojo has given you. Enter this in, hit the Redeem button, and you should see a confirmation listing the amount, expiration date and a description it is related to a Hacker Dojo developer event.

Your server is now free. How cool is that? Beats going to Fry's, assembling hw and sticking your box in the garage.

Go to <http://aws.amazon.com>, sign up for S3 (<http://aws.amazon.com/s3/>) and EC2(<http://aws.amazon.com/ec2/>); you should receive email messages you have signed up for these services. You won't be charged until you actually start a server, which Amazon calls an instance. There are a couple more steps to configuring your Amazon services before we can pick an instance to use for our HelloWorld server.

Login to the Amazon EC2 Dashboard. You should be at a url like:

<https://console.aws.amazon.com/ec2/home> and you should see a display which displays something which says "Launch EC2 Instance" with a big arrow on it. This is your server and once you start it Amazon starts charging you.

We still have some configuration settings to nail down before we can start a HelloWorld Server.

- 1) Find the My Resources panel in the upper right hand corner of the EC2 dashboard. It should say 0 Key Value pairs. If it says 1, you can skip this step. Click on it and follow the instructions. It will ask you for a name, you can make up anything for your key. It will ask you to save this file, you should save this somewhere on your computer where it is secure.
- 2) Click on SecurityGroup. This is Amazon's term for a firewall. Configuring a security group determines which services will have access to your server. The default security group lets everything through. You can create your own group which lets HTTP, SSH and MySQL though.

start the instance, right click once you see a green running indicator, right click and select connect

You should see a dialog box come up showing you the ssh command line to use; if you don't see it; stop and restart the instance.

Your instructions will show you how to run ssh using the keypair.pem file you saved earlier. Mine looks like:

```
ssh -i /usr/local/amazonawsfiles/keypair.pem ec2-75-101-195-41.compute1.amazonaws.com
```

You should see a linux root login. Try installing packages using yum, etc... If you find you have installed something and aren't getting the right response try restarting the instance.