

# Building your own Faucet

Before we start, in case you are not a programmer or know nothing about coding don't be afraid. Just follow the instructions and copy and paste the commands where you are told to do so. If you know something it will be a bit easier. This guide is meant to be used with Amazon AWS servers, but the faucet works in any other server as long as it has PHP and MySQL running.

With no further delay, let's get started!

## Creating the instance

To build your own Faucet you first need a server. We recommend you to set up an Amazon one. If you don't have one you can create one following these instructions:

[http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-launch-instance\\_linux.html](http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-launch-instance_linux.html)

## Installing the LAMP services

Once you have created the instance and your are sure it works properly you need to set up your web server. To do so you will need the LAMP package (Linux, Apache, MySQL and PHP). follow these instructions to configure yours:

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/install-LAMP.html>

You will then need to install the mcrypt library. Use the following commands to do so:

```
sudo yum install php-mcrypt
```

```
sudo service httpd restart
```

## Setting up the FTP

Now you need to set the FTP so you can transfer the files.

### Step #1: Install vsftpd

SSH to your EC2 server. Type:

```
sudo yum install vsftpd
```

This should install vsftpd.

## Step #2: Open up the FTP ports on your EC2 instance

Next, you'll need to open up the FTP ports on your EC2 server. Log in to the AWS EC2 Management Console and select Security Groups from the navigation tree on the left. Select the security group assigned to your EC2 instance. Select the Inbound tab and add port range 20-21:

The screenshot shows the AWS Management Console interface for Security Groups. The left navigation pane shows the 'Security Groups' link under 'NETWORK & SECURITY'. The main content area shows the 'quicklaunch-2' security group selected. The 'Inbound' tab is active, and a new rule is being created. The 'Port range' field is set to '20-21', and the 'Source' is set to '0.0.0.0/0'. The 'Add Rule' button is highlighted with a blue arrow and the text 'click Add Rule'. The 'Apply Rule Changes' button is also highlighted with a blue arrow and the text 'don't forget to apply the rule changes'. A table on the right shows existing rules for port 22 (SSH) and port 80 (HTTP), both with 'Delete' actions.

TCP	Port (Service)	Source	Action
	22 (SSH)	0.0.0.0/0	Delete
	80 (HTTP)	0.0.0.0/0	Delete

Also add port range 1024-1048:

Details Inbound

Create a new rule: Custom TCP rule

Port range: 1024-1048  
(e.g., 80 or 49152-65535)

Source: 0.0.0.0/0  
(e.g., 192.168.2.0/24, sg-47ad482e, or 1234567890/default)

+ Add Rule

Apply Rule Changes

TCP Port (Service)	Source	Action
22 (SSH)	0.0.0.0/0	Delete
80 (HTTP)	0.0.0.0/0	Delete
20 - 21	0.0.0.0/0	Delete

### Step #3: Make updates to the vsftpd.conf file

Edit your vsftpd conf file by typing:

**sudo vi /etc/vsftpd/vsftpd.conf**

Disable anonymous FTP by changing this line:

**anonymous\_enable=YES**

to

**anonymous\_enable=NO**

Then add the following lines to the bottom of the vsftpd.conf file:

**pasv\_enable=YES pasv\_min\_port=1024 pasv\_max\_port=1048 pasv\_address=<Public IP of your instance>**

Your vsftpd.conf file should look something like the following - except make sure to replace the pasv\_address with your public facing IP address:

```

listen=YES
#
# This directive enables listening on IPv6 sockets. To listen on IPv4 and IPv6
# sockets, you must run two copies of vsftpd with two configuration files.
# Make sure, that one of the listen options is commented !!
#listen_ipv6=YES

pam_service_name=vsftpd
userlist_enable=YES
tcp_wrappers=YES

pasv_enable=YES
pasv_min_port=1024
pasv_max_port=1048
pasv_address=107.22.223.98

```

To save changes, press escape, then type :wq, then hit enter.

#### Step #4: Restart vsftpd

Restart vsftpd by typing:

**sudo /etc/init.d/vsftpd restart**

You should see a message that looks like:

```

[ec2-user@ip-10-243-73-113 ~]$ sudo /etc/init.d/vsftpd restart
Shutting down vsftpd: [FAILED]
Starting vsftpd for vsftpd: [ OK ]
[ec2-user@ip-10-243-73-113 ~]$ █

```

#### Step #5: Create an FTP user

If you take a peek at /etc/vsftpd/user\_list, you'll see the following:

# vsftpd userlist # If userlist\_deny=NO, only allow users in this file # If userlist\_deny=YES (default), never allow users in this file, and # do not even prompt for a password. # Note that the default vsftpd pam config also checks /etc/vsftpd/ftpusers # for users that are denied. root bin daemon adm lp sync shutdown halt mail news uucp operator games nobody This is basically saying, "Don't allow these users FTP access." vsftpd will allow FTP access to any user not on this list.

So, in order to create a new FTP account, you may need to create a new user on your server. (Or, if you already have a user account that's not listed in `/etc/vsftpd/user_list`, you can skip to the next step.)

Creating a new user on an EC2 instance is pretty simple. For example, to create the user 'bret', type:

**sudo adduser bret > sudo passwd bret**

Here's what it will look like:

```
[ec2-user@ip-10-243-73-113 ~]$ sudo adduser bret
[ec2-user@ip-10-243-73-113 ~]$ sudo passwd bret
Changing password for user bret.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[ec2-user@ip-10-243-73-113 ~]$
```

Restart the vsftpd server again like so:

**sudo /etc/init.d/vsftpd restart**

Add the HTTP rule

You now need to open the http port as you have done with other ports in step 2 of the FTP configuration. Go to the security rules the same way you did before and allow the http port (80) to be accessible from anywhere.

HTTP	TCP	80	Anywhere	0.0.0.0/0	X
Custom TCP Rule	TCP	20 - 21	Anywhere	0.0.0.0/0	X
Custom TCP Rule	TCP	1024 - 1048	Anywhere	0.0.0.0/0	X

Add Rule

Cancel Save

## Creating the database

Access your server and create a database. To do so enter the following commands:

**mysql -u root -p**

**your\_password\_defined\_previously\_for\_root**

**create database <database\_name>**

**exit**

## Transferring the files

Using your favourite FTP client (for example FileZilla) transfer all the files to the folder called var/www/html. Once you have all the files transferred modify the config.php file and insert the information of the database you created in the previous step.

Now access your ip address from a web browser. This should create the whole database schema and some basic information for the settings table.

## Configuring your Faucet

Now insert your domain name or ip address in your browser. The first time you do so you should see a page where you can enter the password for the admin site. Remember this password.

**Create your password:**

**Password**

Minimum of 6 characters

Confirm

Now you can access the administrator site so you can manage the settings from here. Access **<your\_domain\_name\_or\_ip>/admin**. Enter your password. You will now see the form where you can edit your settings.

## Admin Panel

[Change Password](#)

[Logout](#)

**Faucet Name:**

faucet title

The name of your Faucet

**Faucet Subtitle:**

faucet subtitle

**Faucet Description 1:**

description 1

**Faucet Description 2:**

description 2

**Rewards:**

10\*8, 20\*4, 30\*2, 40

Input the rewards and the weight of each possible prize using the format *reward\*weight* separated by commas. Units are in Satoshis.  
For example: 100\*2, 200\*1 means that the chances of a user winning 100 satoshis are double than winning 200 Satoshis.

**Referral Percentage:**

20

The percentage of the claim that users take by promoting your Faucet

After configuring your settings access your faucet again. You should be able to use it properly now.

**faucet title**

**faucet subtitle**

top horizontal ad

**description 1**

**description 2**

Your possible rewards 40 30 20 10

Earning bitcoins is simple:

middle horizontal ad

**Insert your email address:**

Enter your email address

**Solve the captcha:**

invalid ckey

[Publishers:How can I fix this?](#)

Give me my reward !

bottom horizontal ad

**Insert your text here**

Copyright © 2015 faucet title [Contact us](#)

Contact: [ricartidomarx@gmail.com](mailto:ricartidomarx@gmail.com)