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Setting up an FTP server on your Amazon Linux AMI

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Step #1: Install vsftpd

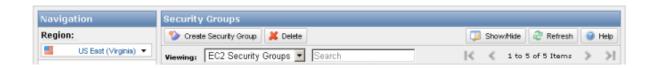
SSH to your EC2 server. Type:

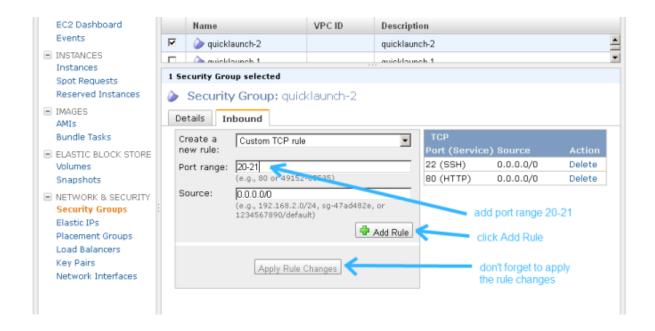
> sudo yum install vsftpd

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:





Also add port range 1024-1048:



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:

```
#
# 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
```

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:
Starting vsftpd for vsftpd:
[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:

Step #6: Restricting users to their home directories

At this point, your FTP users are not restricted to their home directories. That's not very secure, but we can fix it pretty easily.

Edit your vsftpd conf file again by typing:

> sudo vi /etc/vsftpd/vsftpd.conf

Un-comment out the line:

```
chroot local user=YES
```

It should look like this once you're done:

```
You may specify a file of disallowed anonymous e-mail addresses. Apparently
 useful for combatting certain DoS attacks.
#deny email enable=YES
# (default follows)
#banned email file=/etc/vsftpd/banned emails
 You may specify an explicit list of local users to chroot() to their home
# directory. If chroot_local_user is YES, then this list becomes a list of
 users to NOT chroot().
#chroot list enable=YES
(default follows)
#chroot list file=/etc/vsftpd/chroot list
# You may activate the "-R" option to the builtin ls. This is disabled by
 default to avoid remote users being able to cause excessive I/O on large
 sites. However, some broken FTP clients such as "ncftp" and "mirror" assume
```

Restart the vsftpd server again like so:

> sudo /etc/init.d/vsftpd restart

All done!

Appendix A: Surviving a reboot

vsftpd doesn't automatically start when your server boots. If you're like me, that means that after rebooting your EC2 instance, you'll feel a moment of terror when FTP seems to be broken – but in reality, it's just not running!. Here's a handy way to fix that:

> sudo chkconfig --level 345 vsftpd on