# FTP/SFTP Server Configuration

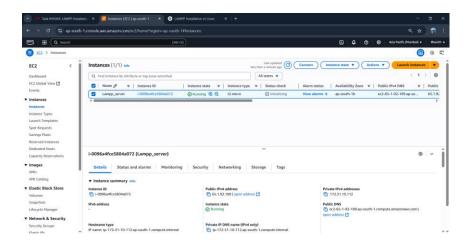
#### Goal

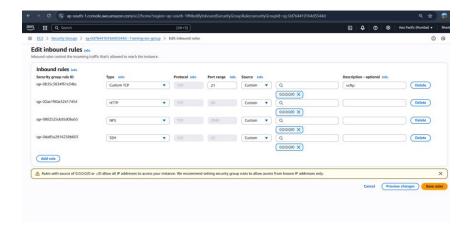
Enable file transaction to servers using File Transfer Protocol (FTP).

## **Step 1: Launch AWS EC2 Instance**

- 1. Launch an Amazon Linux 2 EC2 instance.
- 2. Allow inbound ports 22 and 21 in the security group.
- 3. Connect to the instance using Git Bash:

ssh -i "your-key.pem" ec2-user@your-ec2-public-ip

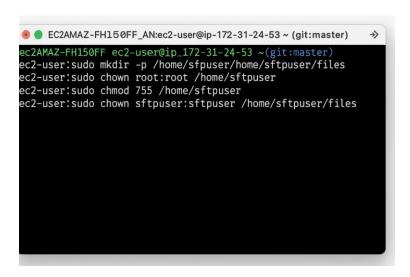




### **Step 2: Configure SFTP on Port 22**

1. Create a new user: sudo adduser sftpuser sudo passwd sftpuser

2. Create a directory and set permissions: sudo mkdir -p /home/sftpuser/files sudo chown root:root /home/sftpuser sudo chmod 755 /home/sftpuser sudo chown sftpuser:sftpuser /home/sftpuser/files



3. Edit SSH config: sudo vim /etc/ssh/sshd-custom\_config

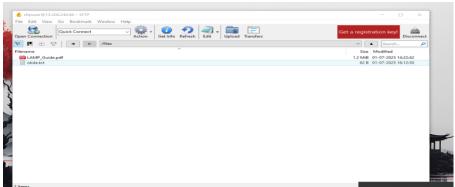
Add at end:
Match User sftpuser
ChrootDirectory /home/sftpuser
ForceCommand internal-sftp

AllowTcpForwarding no



4. Restart SSH: sudo systemctl restart sshd

5. Verify using Cyberduck (Protocol: SFTP, Port: 22)



## **Step 3: Configure vsftpd on Port 21**

1. Install vsftpd: sudo yum install vsftpd –y



2. Create a new user:

sudo adduser ftpuser sudo passwd ftpuser

```
[root@ip-172-31-1-139 ~]# useradd ftpuser
[root@ip-172-31-1-139 ~]# passwd ftpuser
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
[root@ip-172-31-1-139 ~]# |
```

3. Create and set permissions for directory: sudo mkdir -p /home/ftpuser/ftpfiles sudo chown nobody:nobody /home/ftpuser sudo chmod a-w /home/ftpuser sudo chown ftpuser:ftpuser /home/ftpuser/ftpfiles

```
[root@ip-172-31-1-139 ~]# mkdir -p /home/ftpuser/ftpfiles
[root@ip-172-31-1-139 ~]# chown ftpuser:ftpuser /home/ftpuser/ftpfiles
[root@ip-172-31-1-139 ~]# cp /etc/vsftpd/vsftpd.conf /etc/vsftpd/vsftpd.conf.bak
[root@ip-172-31-1-139 ~]# |
```

4. Configure vsftpd: sudo vim /etc/vsftpd/vsftpd-custom.conf

Ensure the following:
anonymous\_enable=NO
local\_enable=YES
write\_enable=YES
chroot\_local\_user=YES
pasv\_min\_port=10000
pasv\_max\_port=10100
user\_sub\_token=\$USER
local\_root=/home/\$USER/ftp



5. Enable passive ports in security group (10000-10100)

training-sec-group		1 rule
Туре	Protocol	Source
Custom TCP	10000-10100	0.0.0.0/0

- 6. Restart vsftpd: sudo systemctl start vsftpd sudo systemctl enable vsftpd
- 7. Verify using Cyberduck (Protocol: FTP, Port: 21)

