FTP – INSTALL, CONFIG AND SECURE



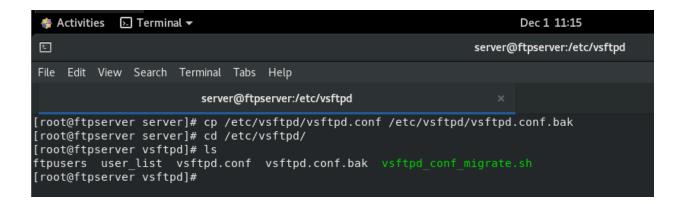
VSFTP CONFIGURATION

```
Dec 1 10:55
2
                                                              server@localhost:/home/server
File Edit View Search Terminal Help
[root@localhost server]# hostnamectl set-hostname ftpserver.redhat.com
[root@localhost server]# hostnamectl
  Static hostname: ftpserver.redhat.com
        Icon name: computer-vm
          Chassis: vm
       Machine ID: d830072eb7d842dca32a037d2097e998
          Boot ID: 82472942e30445059a5dcf1e2097fa14
   Virtualization: vmware
 Operating System: CentOS Linux 8 (Core)
      CPE OS Name: cpe:/o:centos:centos:8
           Kernel: Linux 4.18.0-147.el8.x86 64
     Architecture: x86-64
[root@localhost server]#
```

♠ Activities		Dec 1 10:59		# •0 O ·
8		server@localhost:/home/server		
File Edit View Search Term	inal Help			
	yum install vsftpd -y check: 0:00:14 ago on Tue 01 De l8.x86_64 is already installed			
––––––––––––––––––––––––– Package	Architecture	Version	Repository	Size
pgrading: vsftpd	x86_64	3.0.3-31.el8	AppStream	180 k
ransaction Summary				
pgrade 1 Package				
otal download size: 180 ownloading Packages: sftpd-3.0.3-31.el8.x86 6			96 kB/s 180 kB	00:01
otal			72 kB/s 180 kB	00:02
arning: /var/cache/dnf/A entOS-8 - AppStream mporting GPG key 0x8483C		ges/vsftpd-3.0.3-31.el8.x86_64.rpm: H	Header V3 RSA/SHA256 Signature, key ID 8483c 1.6 MB/s 1.6 kB	65d: NOKEY 00:00
Userid : "CéntOS (Ce	oob: ntOS Official Signing Key) <sec 1D7 CE22 7FB6 4882 05B5 55B3 84</sec 			
From : /etc/pki/rp ey imported successfully	m-gpg/RPM-GPG-KEY-centosofficia	ıl		
unning transaction check				
ransaction check succeed	ed.			

```
Dec 1 11:04
 2
                                                                  server@localhost:/home/server
 File Edit View Search Terminal Help
[root@localhost server]# systemctl start vsftpd
[root@localhost server]# systemctl enable vsftpd
Created symlink /etc/systemd/system/multi-user.target.wants/vsftpd.service → /usr/lib/syste
[root@localhost server]# systemctl status vsftpd
vsftpd.service - Vsftpd ftp daemon
   Loaded: loaded (/usr/lib/systemd/system/vsftpd.service; enabled; vendor preset: disabled
   Active: active (running) since Tue 2020-12-01 10:59:58 EST; 22s ago
 Main PID: 40846 (vsftpd)
   Tasks: 1 (limit: 4873)
Memory: 968.0K
   CGroup: /system.slice/vsftpd.service
└─40846 /usr/sbin/vsftpd /etc/vsftpd/vsftpd.conf
Dec 01 10:59:58 ftpserver.redhat.com systemd[1]: Starting Vsftpd ftp daemon...
Dec 01 10:59:58 ftpserver.redhat.com systemd[1]: Started Vsftpd ftp daemon.
```

```
Dec 1 11:05
 Σ.
                                                                server@localhost:/home/server
File Edit View Search Terminal Help
[root@localhost server]# firewall-cmd --zone=public --permanent --add-port=21/tcp
success
[root@localhost server]# firewall-cmd --zone=public --permanent -add-service=ftp
usage: see firewall-cmd man page
firewall-cmd: error: unrecognized arguments: -add-service=ftp
[root@localhost server]# firewall-cmd --zone=public --permanent --add-service=ftp
success
[root@localhost server]# firewall-cmd --reload
success
[root@localhost server]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: ens33
  sources:
  services: cockpit dhcpv6-client ftp ssh
  ports: 21/tcp
  protocols:
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
```



Now add these two following options to restrict FTP users to their Home directories.

```
chroot_local_user=YES
allow_writeable_chroot=YES
```

chroot_local_user=YES means local users will be placed in a chroot jail, their home directory after login by default settings.

And also by default, vsftpd does not allow the chroot jail directory to be writable for security reasons, however, we can use the option allow_writeable_chroot=YES to override this setting.

Set the SELinux boolean below to allow FTP to read files in a user's home directory. Note that this was initially done using the the command:

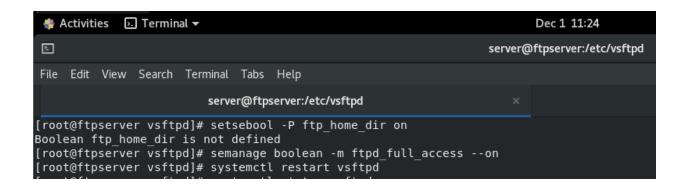
setsebool -P ftp_home_dir on

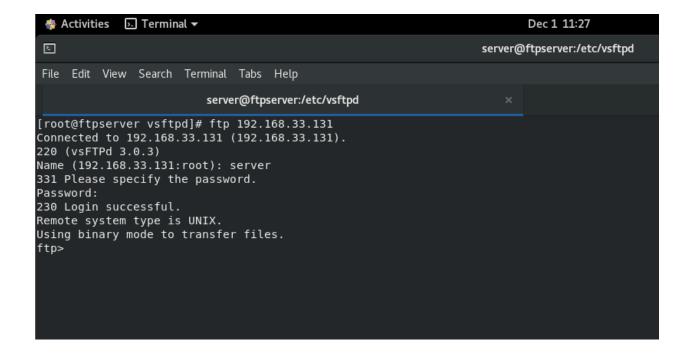
semanage command to set SELinux rule to allow FTP to read/write user's home directory

semanage boolean -m ftpd_full_access -on

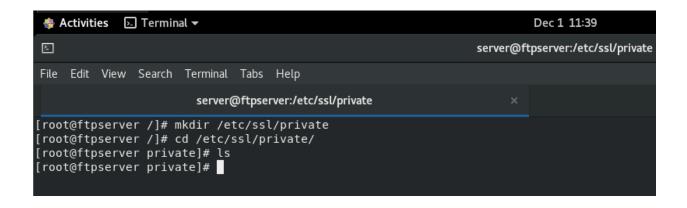
We have to restart vsftpd to effect all the changes we made so far above:

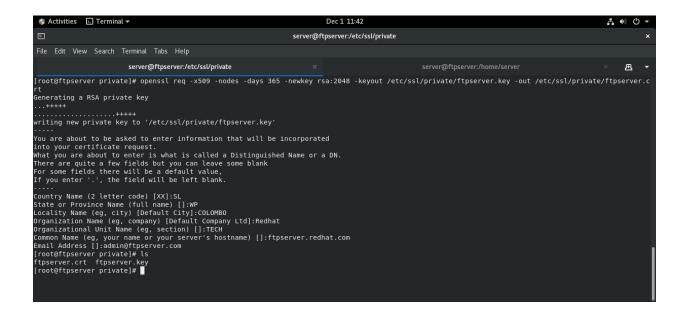
systemctl restart vsftpd

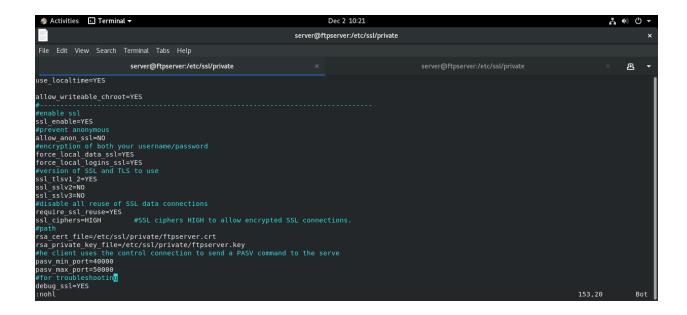




SSL CONFIGURATION







Activities			Dec 1 12:00		A (0) (ტ ▼
Server@ftpserver:/etc/ssl/private						
File Edit View Search Terminal Tab	s Help					
server@ftpserver:/etc/ssl/private				server@ftpserver:/home/server	× A	
[root@ftpserver private]# yum install epel-release filezilla -y Extra Packages for Enterprise Linux Modular 8 - x86_64 Extra Packages for Enterprise Linux 8 - x86_64 Package epel-release-8-8.el8.noarch is already installed. Dependencies resolved.				11 kB/s 98 kB 257 kB/s 8.4 MB	00:09 00:33	
Package	Architecture		Version	Repository	Si	ize
Installing: filezilla Upgrading: epel-release Installing dependencies: libfilezilla libstorj pugixml wxBase3 wxGTK3-i18n Transaction Summary	x86_64 noarch x86_64 x86_64 x86_64 x86_64 x86_64 noarch		3.49.1-3.el8 8-9.el8 0.23.0-3.el8 1.0.3-6.el8 1.9-1.el8 3.0.4-11.el8 3.0.4-11.el8	epel epel epel epel epel epel epel epel	262 116 97	2 k 2 k 9 k 7 k 1 M 8 M
Unstall 7 Packages Upgrade 1 Package Total download size: 12 M Downloading Packages:						

CONNECTION

