

服务端[samba 搭建, linux 和 window 跨平台]

```
[root@server0 ~]# firewall-cmd --set-default-zone=trusted
success
```

```
[root@server0 ~]# useradd -s /sbin/nologin kenji
[root@server0 ~]# useradd -s /sbin/nologin harry
[root@server0 ~]# useradd -s /sbin/nologin chihiro
[root@server0 ~]# pdbedit -a kenji
new password:
retype new password:
```

```
[root@server0 ~]# pdbedit -a harry    #添加为 samba 的共享帐号
new password:
retype new password:
```

```
[root@server0 ~]# pdbedit -a chihiro
new password:
retype new password:
```

```
[root@server0 ~]# pdbedit -L    #查看共享帐号
kenji:1001:
chihiro:1003:
harry:1002:
[root@server0 ~]# yum -y install samba
已加载插件：langpacks
rhel_dvd
```

```
[root@server0 ~]# vim /etc/samba/smb.conf
```

```
#
workgroup = STAFF
server string = Samba Server Version %v
```

```
write list = +staff
[common]
path = /common
"/etc/samba/smb.conf" 322L, 11651C          322, 1          底端
```

```
[root@server0 ~]# mkdir /common
[root@server0 ~]# echo 123 > /common/123.txt
[root@server0 ~]# ls /common
123.txt
[root@server0 ~]# systemctl restart smb
[root@server0 ~]# systemctl enable smb
ln -s '/usr/lib/systemd/system/smb.service' '/etc/systemd/system/multi-user.target.wants/smb.service'
```

客户端

```
[root@desktop0 ~]# firewall-cmd --set-default-zone=trusted
success
[root@desktop0 ~]# yum -y install samba-client
已加载插件：langpacks
```

```
[root@desktop0 ~]# smbclient -L //172.25.0.11 #查看共享
Enter root's password: #直接回车
Anonymous login successful
Domain=[ STAFF] OS=[ Unix] Server=[ Samba 4.1.1]
#工作组名
Sharename      Type      Comment
-----
common         Disk      #共享文件名
IPC$           IPC       IPC Service (Samba Server Version 4.1.1)
Anonymous login successful
Domain=[ STAFF] OS=[ Unix] Server=[ Samba 4.1.1]

Server          Comment
-----
Workgroup       Master
-----

[root@desktop0 ~]# smbclient -U harry //172.25.0.11/common #指定以用户 harry 访问共
Enter harry's password: #刚设置的密码 123
Domain=[ STAFF] OS=[ Unix] Server=[ Samba 4.1.1]
smb: \> #只是测试, 工作的时候用挂载
```

服务端 SELinux 策略修改, 布尔值 (所有功能的开关)

```
[root@server0 ~]# getsebool -a | grep samba #查看布尔值
samba_create_home_dirs --> off
samba_domain_controller --> off
samba_enable_home_dirs --> off
samba_export_all_ro --> off ←
samba_export_all_rw --> off
samba_portmapper --> off
samba_run_unconfined --> off
samba_share_fusefs --> off
samba_share_nfs --> off
sanlock_use_samba --> off
use_samba_home_dirs --> off
virt_sandbox_use_samba --> off
virt_use_samba --> off

[root@server0 ~]# setsebool samba_export_all_ro on #修改布尔值

smb: \> ls #客户端可以查看是可以访问 samba 共享
.                D      0  Thu Jan 11 19:43:31 2018
..               D      0  Thu Jan 11 19:43:19 2018
123.txt          N      4  Thu Jan 11 19:43:31 2018

40913 blocks of size 262144. 28605 blocks available
```

客户端访问的最终方法是挂载:mount【必须掌握的, 工作中真正使用的方法】

```
[root@desktop0 ~]# mkdir /mnt/test
[root@desktop0 ~]# ls /mnt/test
[root@desktop0 ~]# yum -y install cifs-utils.x86_64
已加载插件: langpacks
正在解决依赖关系
```

```
#
# /etc/fstab
# Created by anaconda on Wed May 7 01:22:57 2014
#
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
#
UUID=9bf6b9f7-92ad-441b-848e-0257cbb883d1 / xfs defaults
1 1
//172.25.0.11/common /mnt/test cifs defaults,user=harry,pass=123,_netdev
# _netdev:网络设备, 在开机的时候请先启动网络服务, 然后再挂载该设备
```

```
[ root@desktop0 ~]# mount -a #检测书写是否正确，完成挂载
[ root@desktop0 ~]# df -Th
文件系统      类型      容量  已用  可用  已用% 挂载点
/dev/vda1      xfs        10G   3.1G   7.0G   31% /
devtmpfs       devtmpfs   906M    0   906M    0% /dev
tmpfs          tmpfs      921M   80K   921M    1% /dev/shm
tmpfs          tmpfs      921M   17M   904M    2% /run
tmpfs          tmpfs      921M    0   921M    0% /sys/fs/cgroup
//172.25.0.11/common cifs       10G   3.1G   7.0G   31% /mnt/test
```

通过配置赋予 **chihiro** 写的权限（**samba** 默认是只读）

客户端访问服务端：

1. 防火墙
2. 服务访问控制
3. SELinux 访问控制
4. 本地权限是否允许

服务端

配置 **samba** 服务赋予写的权限

```
[ root@server0 ~]# vim /etc/samba/smb.conf
[common]
path = /common
[devops]
path = /devops
write list = chihiro #修改配置文件指定 chihiro 有读写权限
325,20 底端
```

修改 SELinux 读写功能开关

```
[ root@server0 ~]# getsebool -a | grep samba
samba_create_home_dirs --> off
samba_domain_controller --> off
samba_enable_home_dirs --> off
samba_export_all_ro --> off
samba_export_all_rw --> off #打开 SELinux 读写权限
samba_portmapper --> off
samba_run_unconfined --> off
samba_share_fusefs --> off
samba_share_nfs --> off
sanlock_use_samba --> off
use_samba_home_dirs --> off
virt_sandbox_use_samba --> off
virt_use_samba --> off
[ root@server0 ~]# setsebool samba_export_all_rw on #打开 SELinux 读写权限
```

```
[ root@server0 ~]# systemctl restart smb #重启 smb 服务
[ root@server0 ~]# systemctl enable smb
```

```
[ root@server0 ~]# mkdir /devops
[ root@server0 ~]# setfacl -m u:chihiro:rwx /devops
[ root@server0 ~]# getfacl /devops #赋予本地读写权限给 chihiro
getfacl: Removing leading '/' from absolute path names
# file: devops
# owner: root
# group: root
user::rwx
user:chihiro:rwx
group::r-x
mask::rwx
other::r-x
```

NFS 共享(linux 平台与 linux 平台)

虚拟机 server 搭建 NFS 服务

```
[ root@server0 ~]# rpm -q nfs-utils
nfs-utils-1.3.0-0.el7.x86_64
[ root@server0 ~]# vim /etc/exports
```

```
/public 172.25.0.0/24(ro) #将/public 文件夹共享给 172.25.0.0 网段，以只读的方式
```

```
[ root@server0 ~]# mkdir /public
```

```
[ root@server0 ~]# echo xixi > /public/mylove.txt
[ root@server0 ~]# ls /public
mylove.txt
[ root@server0 ~]# systemctl restart nfs-server.service
[ root@server0 ~]# systemctl enable nfs-server
```

```
[ root@desktop0 ~]# showmount -e 172.25.0.11 #查看 nfs 共享
```

```
Export list for 172.25.0.11:
```

```
/public 172.25.0.0/24
```

```
[ root@desktop0 ~]# mkdir /mnt/nfs
```

```
mkdir: 无法创建目录 "/mnt/nfs": 文件已存在
```

```
[ root@desktop0 ~]# mount 172.25.0.11:/public /mnt/nfs #手动方式将
```

```
mount.nfs: /mnt/nfs is busy or already mounted
```

nfs 共享挂载到

```
[ root@desktop0 ~]# df -h
```

文件系统	容量	已用	可用	已用%	挂载点	
/dev/vda1	10G	3.1G	7.0G	31%	/	
devtmpfs	906M	0	906M	0%	/dev	
tmpfs	921M	80K	921M	1%	/dev/shm	
tmpfs	921M	17M	904M	2%	/run	
tmpfs	921M	0	921M	0%	/sys/fs/cgroup	
//172.25.0.11/common	10G	3.1G	7.0G	31%	/mnt/test	
172.25.0.11:/public	10G	3.1G	7.0G	31%	/mnt/nfs	/mnt/nfs
//172.25.0.11/devops	10G	3.1G	7.0G	31%	/mnt/dev	

*****通过修改配置文件永久挂载*****

```
[ root@desktop0 ~]# vim /etc/fstab
```

```
# /etc/fstab
# Created by anaconda on Wed May 7 01:22:57 2014
#
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
#
UUID=9bf6b9f7-92ad-441b-848e-0257cbb883d1 / xfs defaults
1 1
172.25.0.11:/public /mnt/nfs nfs _netdev 0 0
server0.example.com:/haha /mnt/haha nfs _netdev 0 0
```

```
[ root@desktop0 ~]# mount -a
```