

# COMP7006: Lab 5

## Shell Scripting

Kevin Lo, A00952922  
10-27-2020

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## Introduction

In this lab, I created a shell script to automate installing, Apache, NFS and Samba and sets up the system for the user with the basic user inputs of username and password. In the shell script I created displays a simple menu where the user inputs the corresponding number for their choice and to enter "q" to exit

```
root@localhost:/home/yuiko/Desktop
Main Menu
1.....Apache
2.....NFS
3.....SAMBA
Q.....Quit
Press letter for choice, then Return >
```

```
root@localhost:/home/yuiko/Desktop
SAMBA Menu
1.....Install Samba
2.....Add new Samba user
Q.....Quit
Press letter for choice, then Return >1
```

```
root@localhost:/home/yuiko/Desktop
Apache Menu
1.....Install Apache
2.....Add new user
Q.....Quit
Press letter for choice, then Return >1
```

```
root@localhost:/home/yuiko/Desktop
NFS Menu
1.....Install NFS
2.....Add directory to share
Q.....Quit
Press letter for choice, then Return >
```

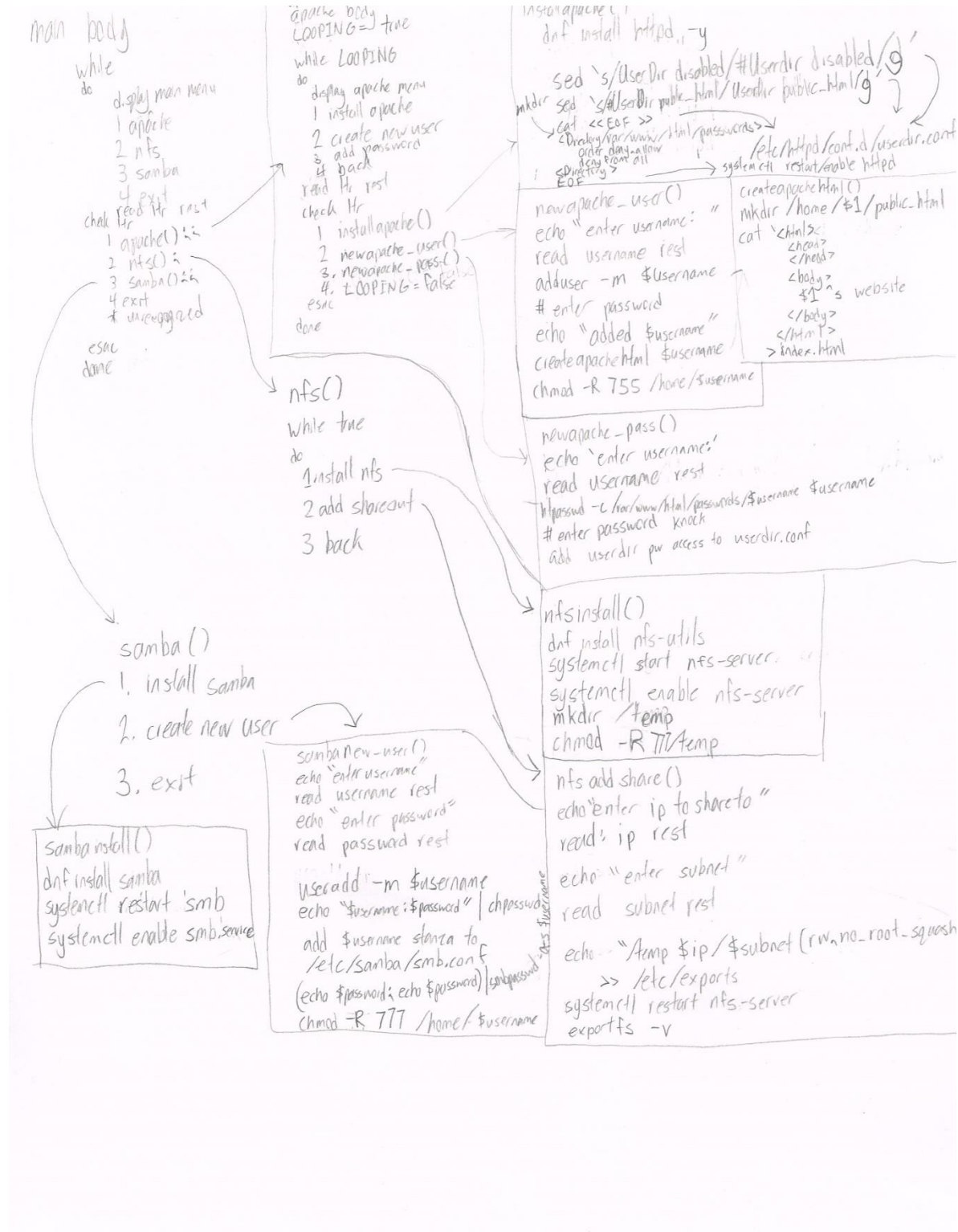
```
#####
# Main Body
#####
while true
do
    clear
    cat << 'MENU'
Main Menu
1.....Apache
2.....NFS
3.....SAMBA
Q.....Quit
MENU

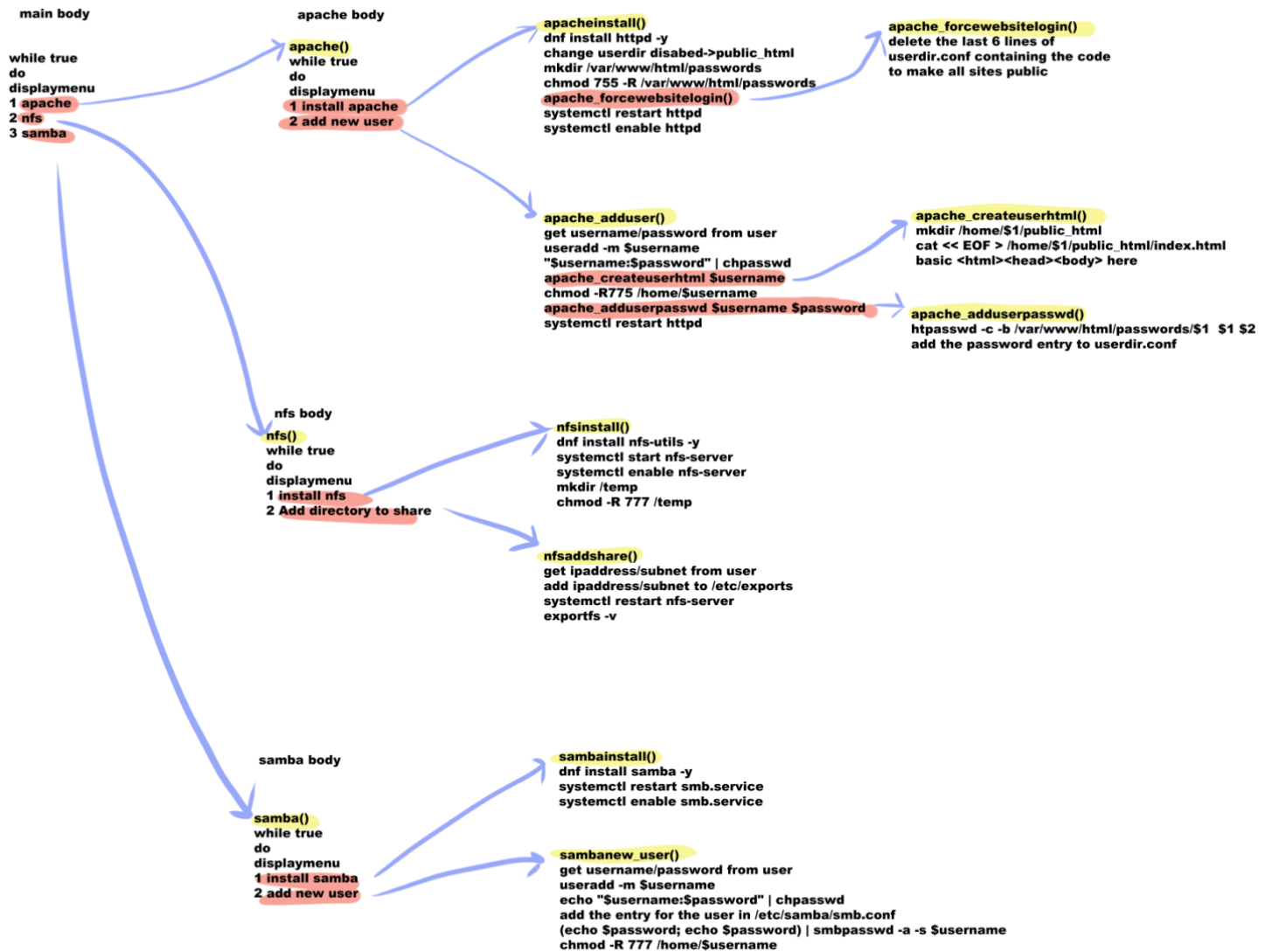
    echo -n '          Press letter for choice, then Return >'
    read ltr rest
    case ${ltr} in
        [1])  apache ;;
        [2])  nfs ;;
        [3])  samba ;;
        [Qq]) exit ;;

        *)    echo; echo Unrecognized choice: ${ltr};;
    esac
    echo; echo -n ' Press Enter to continue.....'
    read rest
done
```

## Basic Design

The basic design was first created on paper then refined more





## Task 1: Apache

Apache installation was done by first doing the **dnf install httpd -y** then removing the 6 lines containing the code to enable public viewing and adding in the code for the sites to require passwords.

```
apacheinstall()
{
    dnf install httpd -y

    sed -i 's/UserDir disabled/#UserDir disabled/g' /etc/httpd/conf.d/userdir.conf
    sed -i 's/#UserDir public_html/UserDir public_html/g' /etc/httpd/conf.d/userdir.conf

    mkdir /var/www/html/passwords
    chmod 755 -R /var/www/html/passwords

    #remove the any access from any wepage
    apache_forcewebsiteslogin

    #protect the passwords
    cat << EOF >> /etc/httpd/conf.d/userdir.conf
<Directory /var/www/html/passwords>
    order deny,allow
    deny from allow
</Directory>
EOF

    systemctl restart httpd
    systemctl enable httpd
}

apache_forcewebsiteslogin()
{
    #need to target entire block to delete
    # <Directory \"/home/*/public_html\">
    # AllowOverride FileInfo AuthConfig Limit Indexes
    # Options MultiViews Indexes SymLinksIfOwnerMatch IncludesNoExec
    # Require method GET POST OPTIONS
    # </Directory>

    #create temp file to write new userdir without the last 5 lines
    touch /etc/httpd/conf.d/tempuserdir.conf

    #write userdir withoout the last 6 lines to tempuserdir.conf
    head -n -6 /etc/httpd/conf.d/userdir.conf > /etc/httpd/conf.d/tempuserdir.conf

    #copy back the contents of tempuserdir.conf to the original userdir.conf
    cat /etc/httpd/conf.d/tempuserdir.conf > /etc/httpd/conf.d/userdir.conf

    #delete the tempuserdir.conf
    rm /etc/httpd/conf.d/tempuserdir.conf
}
```

Adding users was created by first asking the user to enter a username and password then automatically entering the required fields for the user automatically along with creating an entry for the new user in **/etc/httpd/conf.d/userdir.conf**

```

apache_adduser()
{
    echo -n 'Enter username: '
    read username rest
    echo -n 'Enter password: '
    read password rest

    useradd -m $username
    echo "$username:$password" | chpasswd
    echo "User=$username created with password=$password"

    echo "Creating basic user html webpage"
    apache_createuserhtml $username
    chmod -R 775 /home/$username
    echo 'Added' $username 'webpage successfully.'

    apache_adduserpasswd $username $password
    echo "Added $username website password $password successfully"

    #restart httpd after changes to userdir.conf
    systemctl restart httpd
}

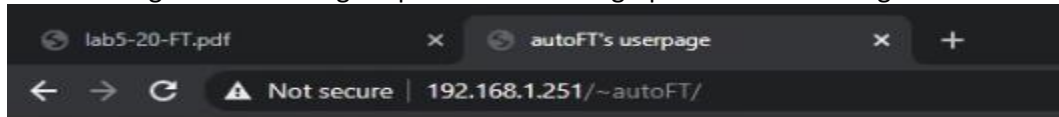
apache_createuserhtml()
{
    #echo $1
    mkdir /home/$1/public_html
    cat << EOF > /home/$1/public_html/index.html
<html>
<head>
    <title>$1's userpage</title>
</head>
<body>
    The owner of this page is $1
</body>
</html>
EOF
}

apache_adduserpasswd()
{
    # create password file with $1 filename of
    # $1 username and $2 password
    htpasswd -c -b /var/www/html/passwords/$1 $1 $2

    #add entry for user to userdir.conf
    echo 'Adding user to the directory'
    cat >> /etc/httpd/conf.d/userdir.conf <<EOL
<Directory /home/$1>
    AllowOverride None
    AuthUserFile /var/www/html/passwords/$1
    # Group authentication is disabled
    AuthGroupFile /dev/null
    AuthName test
    AuthType Basic
    <Limit GET>
        require valid-user
        order deny,allow
        deny from all
        allow from all
    </Limit>
</Directory>
EOL
}

```

The resulting is the following output when installing Apache and accessing the site



1apache-client.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/>

No.	DeltaTime	Time	Source	Destination	Protocol	Length	Info
1	0.000000	0.000000	192.168.1.253	23.59.155.10	TCP	55	49762 → 80 [ACK] Seq=3535355037 Ack=3733679098 Win=511 Len=1
2	0.002707	0.002707	23.59.155.10	192.168.1.253	TCP	66	80 → 49762 [ACK] Seq=3733679098 Ack=3535355038 Win=237 Len=0 SLE=3535355037 SRE=3535355038
3	56.9927	56.995	192.168.1.253	192.168.1.251	TCP	66	50203 → 80 [SYN] Seq=3542485556 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
4	0.000049	57.003	192.168.1.251	192.168.1.253	TCP	66	80 → 50203 [SYN, ACK] Seq=4149570790 Ack=3542485557 Win=64240 Len=0 MSS=1460 SACK_PERM=1 WS=12
5	0.000051	57.003	192.168.1.253	192.168.1.251	TCP	54	50203 → 80 [ACK] Seq=3542485557 Ack=4149570791 Win=131328 Len=0
6	0.000099	57.003	192.168.1.253	192.168.1.251	HTTP	501	GET /~autoFT HTTP/1.1
7	0.003242	57.006	192.168.1.251	192.168.1.253	TCP	60	80 → 50203 [ACK] Seq=4149570791 Ack=3542486004 Win=63872 Len=0
8	0.001090	57.008	192.168.1.251	192.168.1.253	HTTP	693	HTTP/1.1 401 Unauthorized (text/html)
9	0.000024	57.008	192.168.1.253	192.168.1.251	TCP	54	50203 → 80 [ACK] Seq=3542486004 Ack=4149571430 Win=130560 Len=0
10	3.007924	60.015	192.168.1.253	23.59.155.10	TCP	55	[TCP Keep-Alive] 49762 → 80 [ACK] Seq=3535355037 Ack=3733679098 Win=511 Len=1
11	0.002300	60.018	23.59.155.10	192.168.1.253	TCP	66	[TCP Keep-Alive ACK] 80 → 49762 [ACK] Seq=3733679098 Ack=3535355038 Win=237 Len=0 SLE=3535355037
12	0.533563	60.551	192.168.1.253	192.168.1.251	HTTP	566	GET /~autoFT HTTP/1.1
13	0.001206	60.553	192.168.1.251	192.168.1.253	TCP	60	80 → 50203 [ACK] Seq=4149571430 Ack=3542486516 Win=63616 Len=0
14	0.001390	60.554	192.168.1.251	192.168.1.253	HTTP	556	HTTP/1.1 301 Moved Permanently (text/html)
15	0.000022	60.554	192.168.1.253	192.168.1.251	TCP	54	50203 → 80 [ACK] Seq=3542486516 Ack=4149571932 Win=130048 Len=0
16	0.002349	60.556	192.168.1.253	192.168.1.251	HTTP	567	GET /~autoFT/ HTTP/1.1
17	0.001845	60.558	192.168.1.251	192.168.1.253	TCP	60	80 → 50203 [ACK] Seq=4149571932 Ack=3542487029 Win=63616 Len=0
18	0.000669	60.559	192.168.1.251	192.168.1.253	HTTP	465	HTTP/1.1 200 OK (text/html)
19	0.000022	60.559	192.168.1.253	192.168.1.251	TCP	54	50203 → 80 [ACK] Seq=3542487029 Ack=4149572343 Win=131328 Len=0
20	5.003020	65.562	192.168.1.251	192.168.1.253	TCP	60	80 → 50203 [FIN, ACK] Seq=4149572343 Ack=3542487029 Win=64128 Len=0
21	0.000033	65.562	192.168.1.253	192.168.1.251	TCP	54	50203 → 80 [ACK] Seq=3542487029 Ack=4149572344 Win=131328 Len=0

1apache-server.pcap

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Apply a display filter ... <Ctrl-/>

No.	DeltaTime	Time	Source	Destination	Protocol	Length	Info
336	0.000073	5.295576	2001:569:7d...	2607:f748:10:12:0:fed0:2a...	TCP	74	48006 → 80 [ACK] Seq=2288692866 Ack=425040700 Win=63104 Len=0
337	0.000475	5.296051	2607:f748:1...	2001:569:7da3:3400:494f:f...	HTTP	383	HTTP/1.1 200 OK (application/x-redhat-package-manager)
338	0.000287	5.296338	2001:569:7d...	2607:f748:10:12:0:fed0:2a...	TCP	74	48006 → 80 [FIN, ACK] Seq=2288692866 Ack=4250405010 Win=64128 Len=0
339	0.089169	5.385507	2607:f748:1...	2001:569:7da3:3400:494f:f...	TCP	74	80 → 48006 [ACK] Seq=4250405010 Ack=2288692867 Win=29952 Len=0
340	26.7933	32.178	192.168.1.253	192.168.1.251	TCP	66	50203 → 80 [SYN] Seq=3542485556 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
341	0.000124	32.178	192.168.1.251	192.168.1.253	TCP	66	80 → 50203 [SYN, ACK] Seq=4149570790 Ack=3542485557 Win=64240 Len=0 MSS=1460 SACK_PERM=1
342	0.006952	32.185	192.168.1.253	192.168.1.251	TCP	60	50203 → 80 [ACK] Seq=3542485557 Ack=4149570791 Win=131328 Len=0
343	0.000031	32.185	192.168.1.251	192.168.1.253	HTTP	501	GET /~autoFT HTTP/1.1
344	0.000043	32.185	192.168.1.251	192.168.1.253	TCP	54	80 → 50203 [ACK] Seq=4149570791 Ack=3542486004 Win=63872 Len=0
345	0.001435	32.187	192.168.1.251	192.168.1.253	HTTP	693	HTTP/1.1 401 Unauthorized (text/html)
346	0.001369	32.188	192.168.1.253	192.168.1.251	TCP	60	50203 → 80 [ACK] Seq=3542486004 Ack=4149571430 Win=130560 Len=0
347	3.543772	35.732	192.168.1.253	192.168.1.251	HTTP	566	GET /~autoFT HTTP/1.1
348	0.000088	35.732	192.168.1.251	192.168.1.253	TCP	54	80 → 50203 [ACK] Seq=4149571430 Ack=3542486516 Win=63616 Len=0
349	0.001280	35.733	192.168.1.251	192.168.1.253	HTTP	556	HTTP/1.1 301 Moved Permanently (text/html)
350	0.000086	35.734	192.168.1.253	192.168.1.251	TCP	60	50203 → 80 [ACK] Seq=3542486516 Ack=4149571932 Win=130048 Len=0
351	0.002600	35.737	192.168.1.253	192.168.1.251	HTTP	567	GET /~autoFT/ HTTP/1.1
352	0.000019	35.737	192.168.1.251	192.168.1.253	TCP	54	80 → 50203 [ACK] Seq=4149571932 Ack=3542487029 Win=63616 Len=0
353	0.000619	35.737	192.168.1.251	192.168.1.253	HTTP	465	HTTP/1.1 200 OK (text/html)
354	0.001648	35.739	192.168.1.251	192.168.1.251	TCP	60	50203 → 80 [ACK] Seq=3542487029 Ack=4149572343 Win=131328 Len=0
355	5.002067	40.741	192.168.1.251	192.168.1.253	TCP	54	80 → 50203 [FIN, ACK] Seq=4149572343 Ack=3542487029 Win=64128 Len=0
356	0.001243	40.742	192.168.1.253	192.168.1.251	TCP	60	50203 → 80 [ACK] Seq=3542487029 Ack=4149572344 Win=131328 Len=0

1apache-log.pcap

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Apply a display filter ... <Ctrl-/>

No.	DeltaTime	Time	Source	Destination	Protocol	Length	Info
1	0.000000	0.000000	IntelCor_39...	IntelCor_d2:ec:77	ARP	60	Who has 192.168.1.250? Tell 192.168.1.251
2	0.000055	0.000055	IntelCor_d2...	IntelCor_39:31:2c	ARP	42	192.168.1.250 is at a4:02:b9:d2:ec:77
3	33.9971	33.997	192.168.1.251	192.168.1.250	Syslog	137	DAEMON.INFO: Oct 27 01:20:08 localhost systemd[1]: Started /usr/bin/systemctl start man-
4	0.000001	33.997	192.168.1.251	192.168.1.250	Syslog	274	AUTH.NOTICE: Oct 27 01:20:08 localhost audit[1]: SERVICE_START pid=1 uid=0 auid=42949672
5	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	123	DAEMON.INFO: Oct 27 01:20:08 localhost systemd[1]: Starting man-db-cache-update.service.
6	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	94	DAEMON.INFO: Oct 27 01:20:08 localhost systemd[1]: Reloading.
7	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=168 op=UNLOAD
8	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=167 op=UNLOAD
9	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=166 op=UNLOAD
10	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=165 op=UNLOAD
11	0.000127	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=164 op=UNLOAD
12	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=163 op=UNLOAD
13	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=162 op=UNLOAD
14	0.000001	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=161 op=UNLOAD
15	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=160 op=UNLOAD
16	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=159 op=UNLOAD
17	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=158 op=UNLOAD
18	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=157 op=UNLOAD
19	0.000053	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=156 op=UNLOAD
20	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=155 op=UNLOAD
21	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=154 op=UNLOAD
22	0.000000	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=153 op=UNLOAD
23	0.000001	33.997	192.168.1.251	192.168.1.250	Syslog	104	AUTH.NOTICE: Oct 27 01:20:08 localhost audit: BPF prog-id=152 op=UNLOAD



## Task 2: NFS

NFS installer was a simple few lines of code same thing with the sharing the **/temp** folder which both required no user input to perform besides selecting the option

```
nfsinstall()
{
    dnf install nfs-utils -y
    systemctl start nfs-server
    systemctl enable nfs-server
    mkdir /temp
    chmod -R 777 /temp
}

nfsaddshare()
{
    echo -n "Enter IP to share to: "
    read ipaddress rest
    echo -n "Enter subnet mask: "
    read subnet rest

    #add the entry to /etc/exports file
    echo "/temp $ipaddress/$subnet(rw,no_root_squash)" >> /etc/exports
    systemctl restart nfs-server
    exportfs -v
}
```

The following is the output produced by this process

```
root@localhost/home/kevinlo/Desktop
msg='op=PAM:session_open grantors=pam_keyinit,pam_limits,pam_keyinit,pam_limits
,pam_systemd,pam_unix acct="root" exe="/usr/bin/sudo" hostname=? terminal
/dev/pts/2 res=success'
Oct 27 01:52:49 localhost audit[4800]: USER_AUTH pid=4800 uid=0 auid=1000 ses=9
msg='op=PAM:authentication grantors=pam_rootok acct="root" exe="/usr/bin/su" hos
tname=localhost.localdomain addr=? terminal=pts/2 res=success'
Oct 27 01:52:49 localhost audit[4800]: USER_ACCT pid=4800 uid=0 auid=1000 ses=9
msg='op=PAM:accounting grantors=pam_succeed_if acct="root" exe="/usr/bin/su" hos
tname=localhost.localdomain addr=? terminal=pts/2 res=success'
Oct 27 01:52:49 localhost su[4800]: (to root) kevinlo on pts/2
Oct 27 01:52:49 localhost audit[4800]: CRED_ACQ pid=4800 uid=0 auid=1000 ses=9 m
sg='op=PAM:setcred grantors=pam_rootok acct="root" exe="/usr/bin/su" hostname=lo
calhost.localdomain addr=? terminal=pts/2 res=success'
Oct 27 01:52:49 localhost audit[4800]: USER_START pid=4800 uid=0 auid=1000 ses=9
msg='op=PAM:session_open grantors=pam_keyinit,pam_limits,pam_systemd,pam_unix,p
am_umask,pam_uxauth acct="root" exe="/usr/bin/su" hostname=localhost.localdomain
addr=? terminal=pts/2 res=success'
Oct 27 01:53:02 localhost kernel: FS-Cache: Loaded
Oct 27 01:53:02 localhost kernel: FS-Cache: Netfs 'nfs' registered for caching
Oct 27 01:53:02 localhost kernel: Key type dns_resolver registered
Oct 27 01:53:02 localhost kernel: NFS: Registering the id_resolver key type
Oct 27 01:53:02 localhost kernel: Key type id_resolver registered
Oct 27 01:53:02 localhost kernel: Key type id_legacy registered

root@localhost/mnt/temp
mount.nfs: mount point /mnt/temp does not exist
[kevinlo@localhost mnt]$ cd ..
[kevinlo@localhost /]$ cd ..
bash: cd.: command not found...
[kevinlo@localhost /]$ dir
bin dev home lib64 media opt root sbin sys tmp var
boot etc lib lost-found mnt proc run srv temp usr
[kevinlo@localhost /]$ cd mnt
[kevinlo@localhost mnt]$ dir
[kevinlo@localhost mnt]$ mkdir temp
mkdir: cannot create directory 'temp': Permission denied
[kevinlo@localhost mnt]$ sudo su
[sudo] password for kevinlo:
[root@localhost mnt]$ mkdir temp
[root@localhost mnt]$ mount -t nfs 192.168.1.251:/temp /mnt/temp
[root@localhost mnt]$ dir
temp
[kevinlo@localhost mnt]$ nano newfile.txt
[kevinlo@localhost mnt]$ dir
newfile.txt temp
[kevinlo@localhost temp]$ cd temp
[kevinlo@localhost temp]$ nano newfile.txt
[kevinlo@localhost temp]$

root@localhost/temp
Main Menu
1.....Apache
2.....NFS
3.....SMB
0.....Quit
Press letter for choice, then Return >q
[root@localhost Desktop]$ cd ..
[root@localhost yuko]$ cd /temp
[root@localhost temp]$ dir
newfile.txt
[root@localhost temp]$ less newfile.txt
```

2nfs-client.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter -<Ctrl-/>

No.	DeltaTime	Time	Source	Destination	Protocol	Length	Info
78	0.220256	67.631...	192.168.1.250	192.168.1.251	TCP	386	[TCP Retransmission] 730 → 2049 [PSH, ACK] Seq=2335752320 Ack=879475459 Win=64128 Len=32
79	0.001738	67.633...	192.168.1.251	192.168.1.250	NFS	442	V4 Reply (Call In 77) OPEN StateID: 0xbda9
80	0.000063	67.633...	192.168.1.250	192.168.1.251	TCP	66	730 → 2049 [ACK] Seq=2335752640 Ack=879475835 Win=64128 Len=0 Tsva=2534900193 TSecr=308
81	0.001228	67.634...	192.168.1.250	192.168.1.251	NFS	322	V4 Call (Reply In 92) WRITE StateID: 0xbda9 Offset: 0 Len: 19
82	0.222210	67.635...	192.168.1.251	192.168.1.250	NFS	442	[RPC duplicate of #79][TCP Spurious Retransmission] V4 Reply (Call In 77) OPEN StateID: 0xbda9
83	0.000071	67.635...	192.168.1.250	192.168.1.251	TCP	66	730 → 2049 [ACK] Seq=2335752896 Ack=879475835 Win=64128 Len=0 Tsva=2534900193 TSecr=308
84	0.040707	67.637...	192.168.1.250	192.168.1.251	TCP	322	[TCP Retransmission] 730 → 2049 [PSH, ACK] Seq=2335752640 Ack=879475835 Win=64128 Len=25
85	0.178915	67.676...	192.168.1.250	192.168.1.251	NFS	442	[RPC duplicate of #79][TCP Spurious Retransmission] V4 Reply (Call In 77) OPEN StateID: 0xbda9
86	0.000077	67.676...	192.168.1.250	192.168.1.251	TCP	78	[TCP Dup ACK 80#2] 730 → 2049 [ACK] Seq=2335752896 Ack=879475835 Win=64128 Len=0 Tsva=2534900193 TSecr=308
87	0.338968	68.415...	192.168.1.250	192.168.1.251	TCP	322	[TCP Retransmission] 730 → 2049 [PSH, ACK] Seq=2335752640 Ack=879475835 Win=64128 Len=25
88	0.033628	68.449...	192.168.1.251	192.168.1.250	TCP	78	[TCP Dup ACK 79#1] 2049 → 730 [ACK] Seq=879475835 Ack=2335752640 Win=64128 Len=0 Tsva=2534900193 TSecr=308
89	0.000001	68.449...	192.168.1.251	192.168.1.250	TCP	66	2049 → 730 [ACK] Seq=879475835 Ack=2335752896 Win=63872 Len=0 Tsva=2534900193 TSecr=308
90	0.000000	68.449...	192.168.1.251	192.168.1.250	TCP	78	[TCP Dup ACK 89#1] 2049 → 730 [ACK] Seq=879475835 Ack=2335752896 Win=63872 Len=0 Tsva=2534900193 TSecr=308
91	0.000000	68.449...	192.168.1.251	192.168.1.250	TCP	78	[TCP Dup ACK 89#2] 2049 → 730 [ACK] Seq=879475835 Ack=2335752896 Win=63872 Len=0 Tsva=2534900193 TSecr=308
92	0.043795	68.493...	192.168.1.251	192.168.1.250	NFS	246	V4 Reply (Call In 81) WRITE
93	0.000087	68.493...	192.168.1.250	192.168.1.251	TCP	66	730 → 2049 [ACK] Seq=2335752896 Ack=879476015 Win=64128 Len=0 Tsva=2534901052 TSecr=308
94	0.000563	68.493...	192.168.1.250	192.168.1.251	NFS	290	V4 Call (Reply In 96) CLOSE StateID: 0xbda9
95	0.015832	68.509...	192.168.1.251	192.168.1.250	TCP	66	2049 → 730 [ACK] Seq=879476015 Ack=2335753120 Win=64000 Len=0 Tsva=3080234824 TSecr=2534901052 TSecr=308
96	0.000001	68.509...	192.168.1.251	192.168.1.250	NFS	246	V4 Reply (Call In 94) CLOSE
97	0.000103	68.509...	192.168.1.250	192.168.1.251	TCP	66	730 → 2049 [ACK] Seq=2335753120 Ack=879476195 Win=64128 Len=0 Tsva=2534901069 TSecr=308
98	0.000392	68.510...	192.168.1.250	192.168.1.251	NFS	266	V4 Call (Reply In 100) GETATTR FH: 0x74b537eb
99	0.016555	68.526...	192.168.1.251	192.168.1.250	TCP	66	2049 → 730 [ACK] Seq=879476195 Ack=2335753320 Win=64000 Len=0 Tsva=3080234840 TSecr=2534901069 TSecr=308
100	0.000001	68.526...	192.168.1.251	192.168.1.250	NFS	310	V4 Reply (Call In 98) GETATTR
101	0.000100	68.526...	192.168.1.251	192.168.1.250	TCP	66	730 → 2049 [ACK] Seq=2335753320 Ack=879476439 Win=64128 Len=0 Tsva=2534901086 TSecr=308

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No.	DeltaTime	Time	Source	Destination	Protocol	Length	Info
75	0.000176	60.403...	192.168.1.251	192.168.1.250	NFS	166	V4 Reply (Call In 74) LOOKUP Status: NFS4ERR_NOENT
76	0.003094	60.406...	192.168.1.250	192.168.1.251	TCP	66	730 → 2049 [ACK] Seq=2335752320 Ack=879475459 Win=64128 Len=0 Tsva=2534892968 TSecr=308
77	0.168553	67.575...	192.168.1.250	192.168.1.251	NFS	386	V4 Call (Reply In 78) OPEN DH: 0x18e48354/newfile.txt
78	0.033450	67.608...	192.168.1.251	192.168.1.250	NFS	442	V4 Reply (Call In 77) OPEN StateID: 0xbda9
79	0.226626	67.835...	192.168.1.251	192.168.1.250	TCP	442	[TCP Retransmission] 2049 → 730 [PSH, ACK] Seq=879475459 Ack=2335752640 Win=64128 Len=37
80	0.224415	67.859...	192.168.1.251	192.168.1.250	TCP	442	[TCP Retransmission] 2049 → 730 [PSH, ACK] Seq=879475459 Ack=2335752640 Win=64128 Len=37
81	0.372162	68.431...	192.168.1.250	192.168.1.251	NFS	386	[RPC Retransmission of #77][TCP Spurious Retransmission] V4 Call (Reply In 78) OPEN DH: 0x18e48354/newfile.txt
82	0.000027	68.431...	192.168.1.251	192.168.1.250	TCP	78	[TCP Dup ACK 78#1] 2049 → 730 [ACK] Seq=879475835 Ack=2335752640 Win=64128 Len=0 Tsva=2534900193 TSecr=308
83	0.000016	68.431...	192.168.1.250	192.168.1.251	TCP	66	730 → 2049 [ACK] Seq=2335752640 Ack=879475835 Win=64128 Len=0 Tsva=2534900193 TSecr=308
84	0.000388	68.431...	192.168.1.250	192.168.1.251	NFS	322	V4 Call (Reply In 92) WRITE StateID: 0xbda9 Offset: 0 Len: 19
85	0.000029	68.432...	192.168.1.251	192.168.1.250	TCP	66	2049 → 730 [ACK] Seq=879475835 Ack=2335752896 Win=63872 Len=0 Tsva=3080234764 TSecr=2534900193 TSecr=308
86	0.000017	68.432...	192.168.1.250	192.168.1.251	TCP	78	[TCP Dup ACK 83#1] 730 → 2049 [ACK] Seq=2335752896 Ack=879475835 Win=64128 Len=0 Tsva=2534900193 TSecr=308
87	0.000009	68.432...	192.168.1.251	192.168.1.250	NFS	322	[RPC Retransmission of #84][TCP Spurious Retransmission] V4 Call (Reply In 92) WRITE StateID: 0xbda9 Offset: 0 Len: 19
88	0.000008	68.432...	192.168.1.251	192.168.1.250	TCP	78	[TCP Dup ACK 85#1] 2049 → 730 [ACK] Seq=879475835 Ack=2335752896 Win=63872 Len=0 Tsva=3080234764 TSecr=2534900193 TSecr=308
89	0.000007	68.432...	192.168.1.250	192.168.1.251	NFS	78	[TCP Dup ACK 83#2] 730 → 2049 [ACK] Seq=2335752896 Ack=879475835 Win=64128 Len=0 Tsva=2534900193 TSecr=308
90	0.000006	68.432...	192.168.1.250	192.168.1.251	TCP	322	[RPC Retransmission of #84][TCP Spurious Retransmission] V4 Call (Reply In 92) WRITE StateID: 0xbda9 Offset: 0 Len: 19
91	0.000018	68.432...	192.168.1.251	192.168.1.250	TCP	78	[TCP Dup ACK 85#2] 2049 → 730 [ACK] Seq=879475835 Ack=2335752896 Win=63872 Len=0 Tsva=3080234764 TSecr=2534900193 TSecr=308
92	0.043868	68.475...	192.168.1.251	192.168.1.250	NFS	246	V4 Reply (Call In 84) WRITE
93	0.015514	68.491...	192.168.1.250	192.168.1.251	TCP	66	730 → 2049 [ACK] Seq=2335752896 Ack=879476015 Win=64128 Len=0 Tsva=2534901052 TSecr=308
94	0.000507	68.491...	192.168.1.250	192.168.1.251	NFS	290	V4 Call (Reply In 96) CLOSE StateID: 0xbda9
95	0.000020	68.491...	192.168.1.251	192.168.1.250	TCP	66	2049 → 730 [ACK] Seq=879476015 Ack=2335753120 Win=64000 Len=0 Tsva=3080234824 TSecr=2534901052 TSecr=308
96	0.000138	68.492...	192.168.1.250	192.168.1.251	NFS	246	V4 Reply (Call In 94) CLOSE
97	0.015853	68.507...	192.168.1.250	192.168.1.251	TCP	66	730 → 2049 [ACK] Seq=2335753120 Ack=879476195 Win=64128 Len=0 Tsva=2534901069 TSecr=308
98	0.000142	68.508...	192.168.1.250	192.168.1.251	NFS	266	V4 Call (Reply In 100) GETATTR FH: 0x74b537eb
99	0.000011	68.508...	192.168.1.251	192.168.1.250	TCP	66	2049 → 730 [ACK] Seq=879476195 Ack=2335753320 Win=64000 Len=0 Tsva=3080234840 TSecr=2534901069 TSecr=308
100	0.000100	68.508...	192.168.1.251	192.168.1.250	NFS	310	V4 Reply (Call In 98) GETATTR
101	0.016963	68.525...	192.168.1.250	192.168.1.251	TCP	66	730 → 2049 [ACK] Seq=2335753320 Ack=879476439 Win=64128 Len=0 Tsva=2534901086 TSecr=308

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No.	DeltaTime	Time	Source	Destination	Protocol	Length	Info
221	0.000000	47.309...	192.168.1.251	192.168.1.250	Syslog	102	AUTH.NOTICE: Oct 27 01:51:45 localhost audit: BPF prog-id=420 op=LOAD
222	0.000000	47.309...	192.168.1.251	192.168.1.250	Syslog	102	AUTH.NOTICE: Oct 27 01:51:45 localhost audit: BPF prog-id=421 op=LOAD
223	0.000001	47.309...	192.168.1.251	192.168.1.250	Syslog	102	AUTH.NOTICE: Oct 27 01:51:45 localhost audit: BPF prog-id=422 op=LOAD
224	0.000000	47.309...	192.168.1.251	192.168.1.250	Syslog	102	AUTH.NOTICE: Oct 27 01:51:45 localhost audit: BPF prog-id=423 op=LOAD
225	0.000000	47.309...	192.168.1.251	192.168.1.250	Syslog	102	AUTH.NOTICE: Oct 27 01:51:45 localhost audit: BPF prog-id=424 op=LOAD
226	0.000000	47.309...	192.168.1.251	192.168.1.250	Syslog	102	AUTH.NOTICE: Oct 27 01:51:45 localhost audit: BPF prog-id=425 op=LOAD
227	9.829959	57.139...	192.168.1.251	192.168.1.250	Syslog	119	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Condition check resulted in Kernel Mo
228	0.000000	57.139...	192.168.1.251	192.168.1.250	Syslog	119	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Stopping NFS server and services...
229	0.000000	57.139...	192.168.1.251	192.168.1.250	Syslog	130	KERN.WARNING: Oct 27 01:51:55 localhost kernel: nfsd: last server has exited, flushing c
230	0.000000	57.139...	192.168.1.251	192.168.1.250	Syslog	114	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: nfs-server.service: Succeeded.
231	0.000118	57.140...	192.168.1.251	192.168.1.250	Syslog	114	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Stopped NFS server and services.
232	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	246	AUTH.NOTICE: Oct 27 01:51:55 localhost audit[1]: SERVICE_STOP pid=1 uid=0 audit=429496729
233	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	111	DAEMON.WARNING: Oct 27 01:51:55 localhost rpc.idmapd[11946]: exiting on signal 15
234	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	125	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Stopping NFSv4 ID-name mapping servic
235	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	112	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Stopping NFS Mount Daemon...
236	0.000001	57.140...	192.168.1.251	192.168.1.250	Syslog	136	DAEMON.NOTICE: Oct 27 01:51:55 localhost rpc.mountd[11951]: Caught signal 15, un-registe
237	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	114	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: nfs-mountd.service: Succeeded.
238	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	109	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Stopped NFS Mount Daemon.
239	0.000199	57.140...	192.168.1.251	192.168.1.250	Syslog	246	AUTH.NOTICE: Oct 27 01:51:55 localhost audit[1]: SERVICE_STOP pid=1 uid=0 audit=429496729
240	0.000001	57.140...	192.168.1.251	192.168.1.250	Syslog	154	DAEMON.NOTICE: Oct 27 01:51:55 localhost system[1]: nfs-idmapd.service: Main process ex
241	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	135	DAEMON.WARNING: Oct 27 01:51:55 localhost system[1]: nfs-idmapd.service: Failed with re
242	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	122	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Stopped NFSv4 ID-name mapping servic
243	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	245	AUTH.NOTICE: Oct 27 01:51:55 localhost audit[1]: SERVICE_STOP pid=1 uid=0 audit=429496729
244	0.000001	57.140...	192.168.1.251	192.168.1.250	Syslog	135	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Starting Preprocess NFS configuration
245	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	115	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: nfs-convert.service: Succeeded.
246	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	133	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Finished Preprocess NFS configuration
247	0.000119	57.140...	192.168.1.251	192.168.1.250	Syslog	248	AUTH.NOTICE: Oct 27 01:51:55 localhost audit[1]: SERVICE_START pid=1 uid=0 audit=429496729
248	0.000001	57.140...	192.168.1.251	192.168.1.250	Syslog	247	AUTH.NOTICE: Oct 27 01:51:55 localhost audit[1]: SERVICE_STOP pid=1 uid=0 audit=429496729
249	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	125	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Starting NFSv4 ID-name mapping servic
250	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	112	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Starting NFS Mount Daemon...
251	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	173	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Condition check resulted in RPC serv
252	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	113	DAEMON.WARNING: Oct 27 01:51:55 localhost rpc.idmapd[12008]: Setting log level to 0
253	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	122	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Started NFSv4 ID-name mapping servic
254	0.000001	57.140...	192.168.1.251	192.168.1.250	Syslog	247	AUTH.NOTICE: Oct 27 01:51:55 localhost audit[1]: SERVICE_START pid=1 uid=0 audit=429496729
255	0.000005	57.140...	192.168.1.251	192.168.1.250	Syslog	113	DAEMON.NOTICE: Oct 27 01:51:55 localhost rpc.mountd[12009]: Version 2.5.1 starting
256	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	109	DAEMON.INFO: Oct 27 01:51:55 localhost system[1]: Started NFS Mount Daemon.
257	0.000000	57.140...	192.168.1.251	192.168.1.250	Syslog	247	AUTH.NOTICE: Oct 27 01:51:55 localhost audit[1]:

### Task 3: Samba

Samba installer was a few lines of code and adding a user for Samba sharing only requires a username and password which will automatically add the new user to the **/etc/samba/smb.conf**

```
sambainstall()
{
    dnf install samba -y
    systemctl restart smb.service
    systemctl enable smb.service
}

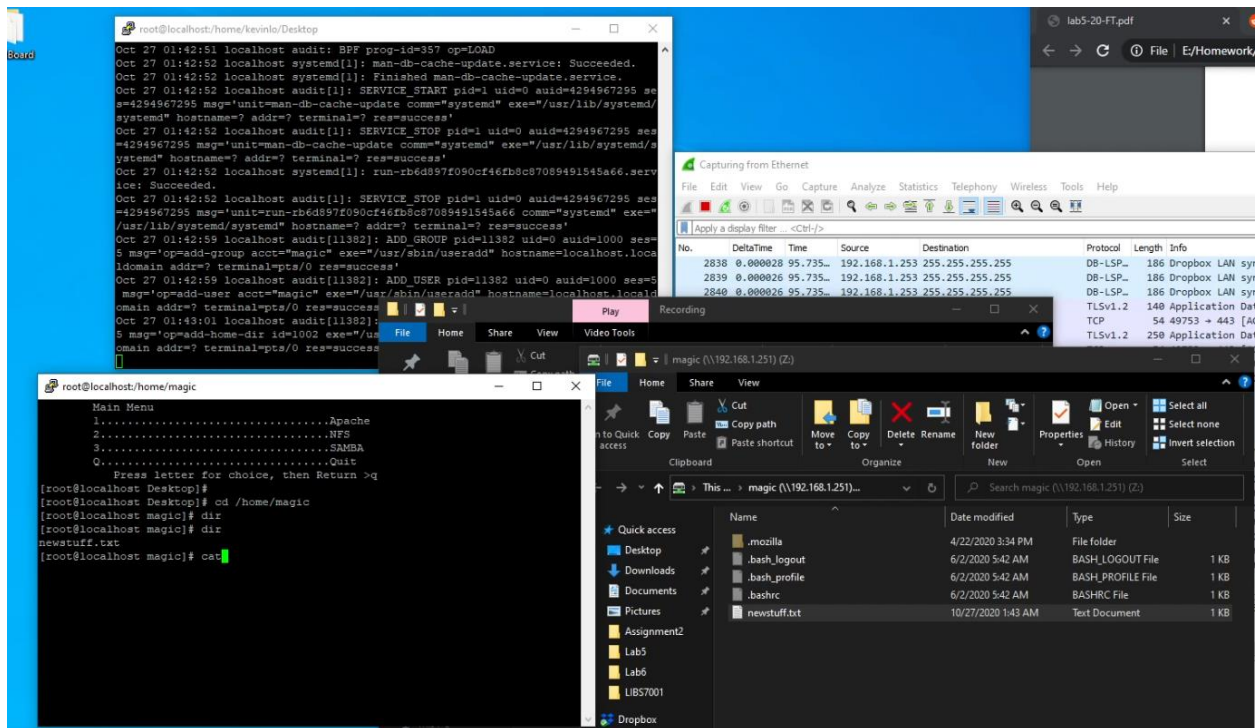
sambanew_user()
{
    echo -n "Enter username: "
    read username rest
    echo -n "Enter password: "
    read password rest

    useradd -m $username
    echo "$username:$password" | chpasswd

    cat >> /etc/samba/smb.conf <<EOF
[$username]
    comment = $username's SAMBA
    path = /home/$username
    public = yes
    writable = yes
    printable = no
    valid users = $username
    force user = $username
EOF

    (echo $password; echo $password) | smbpasswd -a -s $username
    chmod -R 777 /home/$username
}
```

The following output was created from the installation and accessing of the samba share.



No.	DeltaTime	Time	Source	Destination	Protocol	Length	Info
622	0.000041	78.637...	192.168.1.253	192.168.1.251	SMB2	154	Notify Request File:
623	0.000024	78.637...	192.168.1.251	192.168.1.253	SMB2	186	GetInfo Response
624	0.000011	78.637...	192.168.1.253	192.168.1.251	TCP	54	50679 → 445 [ACK] Seq=1569285648 Ack=1081297206 Win=130304 Len=0
625	0.000020	78.637...	192.168.1.253	192.168.1.251	SMB2	162	GetInfo Request SEC_INFO/SMB2_SEC_INFO_00 File: newstuff.txt
626	0.002383	78.640...	192.168.1.251	192.168.1.253	TCP	60	445 → 50679 [ACK] Seq=1081297206 Ack=1569285756 Win=64128 Len=0
627	0.000002	78.640...	192.168.1.251	192.168.1.253	SMB2	131	GetInfo Response, Error: STATUS_ACCESS_DENIED
628	0.000016	78.640...	192.168.1.253	192.168.1.251	TCP	54	50679 → 445 [ACK] Seq=1569285756 Ack=1081297283 Win=130304 Len=0
629	0.000247	78.640...	192.168.1.253	192.168.1.251	SMB2	209	Write Request Len=39 Off=0 File: newstuff.txt
630	0.000390	78.640...	192.168.1.253	192.168.1.251	SMB2	338	Create Request File: newstuff.txt:Zone.Identifier
631	0.004170	78.644...	192.168.1.251	192.168.1.253	SMB2	131	Notify Response, Error: STATUS_PENDING
632	0.000010	78.644...	192.168.1.253	192.168.1.251	TCP	54	50679 → 445 [ACK] Seq=1569286195 Ack=1081297360 Win=130048 Len=0
633	0.001918	78.646...	192.168.1.251	192.168.1.253	SMB2	138	Write Response
634	0.000013	78.646...	192.168.1.253	192.168.1.251	TCP	54	50679 → 445 [ACK] Seq=1569286195 Ack=1081297444 Win=130048 Len=0
635	0.000009	78.646...	192.168.1.253	192.168.1.251	SMB2	146	Close Request File: newstuff.txt
636	0.000221	78.647...	192.168.1.251	192.168.1.253	SMB2	166	Notify Response
637	0.000001	78.647...	192.168.1.251	192.168.1.253	SMB2	131	Create Response, Error: STATUS_OBJECT_NAME_NOT_FOUND
638	0.000009	78.647...	192.168.1.253	192.168.1.251	TCP	54	50679 → 445 [ACK] Seq=1569286287 Ack=1081297556 Win=130048 Len=0
639	0.000007	78.647...	192.168.1.253	192.168.1.251	TCP	54	50679 → 445 [ACK] Seq=1569286287 Ack=1081297633 Win=129792 Len=0
640	0.000031	78.647...	192.168.1.253	192.168.1.251	SMB2	154	Notify Request File:
641	0.000023	78.647...	192.168.1.253	192.168.1.251	SMB2	338	Create Request File: newstuff.txt:Zone.Identifier
642	0.002930	78.650...	192.168.1.251	192.168.1.253	SMB2	182	Close Response
643	0.000013	78.650...	192.168.1.253	192.168.1.251	TCP	54	50679 → 445 [ACK] Seq=1569286671 Ack=1081297761 Win=131328 Len=0
644	0.000309	78.650...	192.168.1.251	192.168.1.253	TCP	60	445 → 50679 [ACK] Seq=1081297761 Ack=1569286671 Win=64128 Len=0
645	0.000000	78.650...	192.168.1.253	192.168.1.251	SMB2	243	Create Response, Error: STATUS_OBJECT_NAME_NOT_FOUND
646	0.000012	78.650...	192.168.1.253	192.168.1.251	TCP	54	50679 → 445 [ACK] Seq=1569286671 Ack=1081297950 Win=131072 Len=0
647	0.000052	78.650...	192.168.1.253	192.168.1.251	SMB2	154	Notify Request File:
648	0.000697	78.651...	192.168.1.253	192.168.1.251	SMB2	260	Find Request File: SMB2_FIND_ID_BOTH_DIRECTORY_INFO Pattern: *;Find Request File: SMB2



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No.	DeltaTime	Time	Source	Destination	Protocol	Length Info
352	0.000014	84.998...	192.168.1.251	192.168.1.253	SMB2	131 Ioctl Response, Error: STATUS_INVALID_DEVICE_REQUEST
353	0.001102	84.999...	192.168.1.253	192.168.1.251	SMB2	162 GetInfo Request FS_INFO/FileFsObjectIdInformation File: newstuff.txt
354	0.000125	84.999...	192.168.1.251	192.168.1.253	SMB2	194 GetInfo Response
355	0.000875	85.000...	192.168.1.253	192.168.1.251	TCP	60 50679 → 445 [ACK] Seq=1569272567 Ack=1081276975 Win=130816 Len=0
356	0.000087	85.000...	192.168.1.253	192.168.1.251	TCP	60 50679 → 445 [ACK] Seq=1569272567 Ack=1081277115 Win=130816 Len=0
357	0.000138	85.000...	192.168.1.253	192.168.1.251	SMB2	146 Close Request File: newstuff.txt
358	0.000193	85.000...	192.168.1.251	192.168.1.253	SMB2	182 Close Response
359	0.000715	85.001...	192.168.1.253	192.168.1.251	TCP	60 50679 → 445 [ACK] Seq=1569272659 Ack=1081277243 Win=130560 Len=0
360	0.000082	85.001...	192.168.1.253	192.168.1.251	SMB2	146 Close Request File: newstuff.txt
361	0.000192	85.001...	192.168.1.251	192.168.1.253	SMB2	182 Close Response
362	0.000850	85.002...	192.168.1.253	192.168.1.251	TCP	60 50679 → 445 [ACK] Seq=1569272751 Ack=1081277371 Win=130560 Len=0
363	0.000148	85.002...	192.168.1.253	192.168.1.251	SMB2	358 Create Request File: newstuff.txt
364	0.000594	85.003...	192.168.1.251	192.168.1.253	SMB2	318 Create Response File: newstuff.txt
365	0.000793	85.004...	192.168.1.253	192.168.1.251	TCP	60 50679 → 445 [ACK] Seq=1569273055 Ack=1081277635 Win=130048 Len=0
366	0.000122	85.004...	192.168.1.253	192.168.1.251	SMB2	162 GetInfo Request SEC_INFO/SMB2_SEC_INFO_00 File: newstuff.txt
367	0.000220	85.004...	192.168.1.251	192.168.1.253	SMB2	238 GetInfo Response
368	0.001128	85.005...	192.168.1.253	192.168.1.251	TCP	60 50679 → 445 [ACK] Seq=1569273163 Ack=1081277819 Win=130048 Len=0
369	0.000130	85.005...	192.168.1.253	192.168.1.251	SMB2	146 Close Request File: newstuff.txt
370	0.000199	85.006...	192.168.1.251	192.168.1.253	SMB2	182 Close Response
371	0.000817	85.006...	192.168.1.253	192.168.1.251	TCP	60 50679 → 445 [ACK] Seq=1569273255 Ack=1081277947 Win=129792 Len=0
372	0.006327	85.013...	192.168.1.253	192.168.1.251	SMB2	260 Find Request File: SMB2_FIND_ID_BOTH_DIRECTORY_INFO Pattern: *;Find Request File: SMB2
373	0.000305	85.013...	192.168.1.251	192.168.1.253	SMB2	1066 Find Response;Find Response, Error: STATUS_NO_MORE_FILES
374	0.000921	85.014...	192.168.1.253	192.168.1.251	TCP	60 50679 → 445 [ACK] Seq=1569273461 Ack=1081278959 Win=131328 Len=0
375	0.003146	85.017...	192.168.1.253	192.168.1.251	SMB2	178 Ioctl Request FSCTL_CREATE_OR_GET_OBJECT_ID File:
376	0.000080	85.017...	192.168.1.251	192.168.1.253	SMB2	234 Ioctl Response FSCTL_CREATE_OR_GET_OBJECT_ID File:
377	0.001310	85.018...	192.168.1.253	192.168.1.251	TCP	60 50679 → 445 [ACK] Seq=1569273585 Ack=1081279139 Win=131072 Len=0
378	0.000014	85.019...	192.168.1.253	192.168.1.251	SMB2	162 GetInfo Request FS_INFO/FileFsObjectIdInformation File:

3samba-log.pcap						
No.	DeltaTime	Time	Source	Destination	Protocol	Length Info
67	0.000000	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=344 op=LOAD
68	0.000001	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=345 op=LOAD
69	0.000000	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=346 op=LOAD
70	0.000000	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=347 op=LOAD
71	0.000000	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=348 op=LOAD
72	0.000000	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=349 op=LOAD
73	0.000110	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=350 op=LOAD
74	0.000000	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=351 op=LOAD
75	0.000001	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=352 op=LOAD
76	0.000000	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=353 op=LOAD
77	0.000000	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=354 op=LOAD
78	0.000000	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=355 op=LOAD
79	0.000000	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=356 op=LOAD
80	0.000000	38.094...	192.168.1.251	192.168.1.250	Syslog	102 AUTH.NOTICE: Oct 27 01:42:51 localhost audit: BPF prog-id=357 op=LOAD
81	1.022747	39.117...	192.168.1.251	192.168.1.250	Syslog	123 DAEMON.INFO: Oct 27 01:42:52 localhost systemd[1]: man-db-cache-update.service: Succeeded
82	0.000001	39.117...	192.168.1.251	192.168.1.250	Syslog	121 DAEMON.INFO: Oct 27 01:42:52 localhost systemd[1]: Finished man-db-cache-update.service.
83	0.000000	39.117...	192.168.1.251	192.168.1.250	Syslog	256 AUTH.NOTICE: Oct 27 01:42:52 localhost audit[1]: SERVICE_START pid=1 uid=0 auid=42949672
84	0.000000	39.117...	192.168.1.251	192.168.1.250	Syslog	255 AUTH.NOTICE: Oct 27 01:42:52 localhost audit[1]: SERVICE_STOP pid=1 uid=0 auid=429496729
85	0.000000	39.117...	192.168.1.251	192.168.1.250	Syslog	141 DAEMON.INFO: Oct 27 01:42:52 localhost systemd[1]: run-rb6d897f090cf46fb8c87089491545a66
86	0.000000	39.117...	192.168.1.251	192.168.1.250	Syslog	273 AUTH.NOTICE: Oct 27 01:42:52 localhost audit[1]: SERVICE_STOP pid=1 uid=0 auid=429496729
87	7.168110	46.285...	192.168.1.251	192.168.1.250	Syslog	119 AUTHPRIV.INFO: Oct 27 01:42:59 localhost useradd[11382]: new group: name=magic, GID=1002
88	0.000001	46.285...	192.168.1.251	192.168.1.250	Syslog	248 AUTH.NOTICE: Oct 27 01:42:59 localhost audit[11382]: ADD_GROUP pid=11382 uid=0 auid=1000
89	0.000000	46.285...	192.168.1.251	192.168.1.250	Syslog	180 AUTHPRIV.INFO: Oct 27 01:42:59 localhost useradd[11382]: new user: name=magic, UID=1002,
90	0.000000	46.285...	192.168.1.251	192.168.1.250	Syslog	246 AUTH.NOTICE: Oct 27 01:42:59 localhost audit[11382]: ADD_USER pid=11382 uid=0 auid=1000
91	0.890332	47.175...	192.168.1.251	192.168.1.250	Syslog	246 AUTH.NOTICE: Oct 27 01:43:01 localhost audit[11382]: USER_MGMT pid=11382 uid=0 auid=1000
92	68.7423...	115.91...	192.168.1.251	192.168.1.250	Syslog	154 AUTH.NOTICE: Oct 27 01:44:09 localhost audit: ANOM_PROMISCUOUS dev=wlp3s0 prom=0 old_pro
93	0.000000	115.91...	192.168.1.251	192.168.1.250	Syslog	114 KERN.INFO: Oct 27 01:44:09 localhost kernel: device wlp3s0 left promiscuous mode