

## Fall2019 Cent OS 7 NFS Installation and Operation

The presentation installs NFS on a NFS server named "nfs-server" and a NFS client named "nfs-client". The presentation configures both systems for communication. At the end, the presentation installs Wireshark to capture and export packets.

Preuss  
12/4/2019

### Cent OS 7 Settings on both systems

40 GB disk  
8 GB RAM  
2 Processors  
NAT Network Settings

Software Install: Server with GUI (no additional software)  
Automatic partitioning  
No security policy chosen

Post-Installation  
Install open-vm-tools  
Install updates

Resource:  
<https://www.unixmen.com/setting-nfs-server-client-centos-7/>



Home



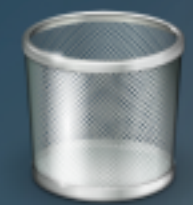
Trash

The presentation logs into the first CentOS 7 system named "nfs-server".





Home



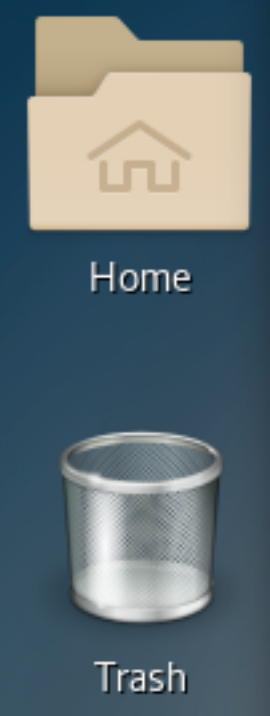
Trash

preuss@nfs-server:/home/preuss

File Edit View Search Terminal Help

```
[preuss@nfs-server ~]$ su  
Password:  
[root@nfs-server preuss]#
```

The presentation opens the terminal and becomes root.



preuss@nfs-server:/home/preuss

File Edit View Search Terminal Help

```
[preuss@nfs-server ~]$ su  
Password:  
[root@nfs-server preuss]# yum install nfs-utils nfs-utils-lib
```

The presentation issues the command to install the necessary programs.





Home



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— □ ×

File Edit View Search Terminal Help

```
[preuss@nfs-server ~]$ su
Password:
[root@nfs-server preuss]# yum install nfs-utils nfs-utils-lib
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
* base: mirror.tzulo.com
* extras: mirrors.usinternet.com
* updates: centos.mirrors.tds.net
Package 1:nfs-utils-1.3.0-0.65.el7.x86_64 already installed and latest version
No package nfs-utils-lib available.
Nothing to do
[root@nfs-server preuss]# █
```

All the required software is installed.





Home



Trash

preuss@nfs-server:/home/preuss

— □ ×

File Edit View Search Terminal Help

```
[root@nfs-server preuss]# systemctl start rpcbind  
[root@nfs-server preuss]# systemctl start nfs-server  
[root@nfs-server preuss]# systemctl start nfs-lock  
[root@nfs-server preuss]# systemctl start nfs-idmap  
[root@nfs-server preuss]# █
```

The presentation issues the "systemctl" commands to start nfs.



Home



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File Edit View Search Terminal Help

```
[root@nfs-server preuss]# mkdir /var/share01  
[root@nfs-server preuss]# mkdir /var/share02  
[root@nfs-server preuss]# █
```

The presentation creates two directories to share as shown.



Home



Trash

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File Edit View Search Terminal Help

```
[root@nfs-server preuss]# chmod 777 /var/share01  
[root@nfs-server preuss]# chmod 777 /var/share02  
[root@nfs-server preuss]#
```

The presentation changes the permissions on the directories to share as shown.





Home



Trash

preuss@nfs-server:/home/preuss

— □ ×

File Edit View Search Terminal Help

```
[root@nfs-server preuss]# chown nobody:nobody /var/share01  
[root@nfs-server preuss]# chown nobody:nobody /var/share02  
[root@nfs-server preuss]#
```

The presentation changes the ownership of the directories to share as shown.





Home



Trash

preuss@nfs-server:/home/preuss

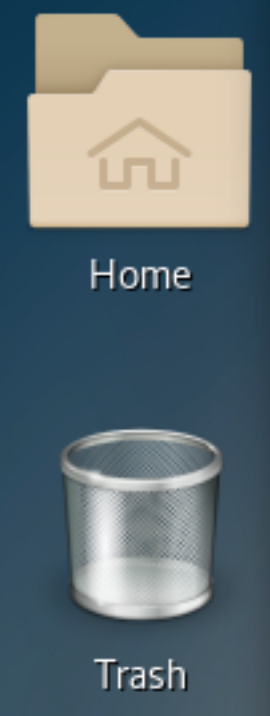
File Edit View Search Terminal Help

```
[root@nfs-server preuss]# nano /etc/exports
```

The presentation uses the nano program to edit the "exports" file as shown.







Terminal window titled "preuss@nfs-server:/home/preuss" with a menu bar (File, Edit, View, Search, Terminal, Help) and the command `[root@nfs-server preuss]# exportfs -a` entered.

The presentation loads the exports file changes into nfs as shown.







Home



Trash

```
preuss@nfs-server:/home/preuss
File Edit View Search Terminal Help
GNU nano 2.3.1 File: firewall_rpcinfo.sh Modified
#!/bin/bash
# This opens nfs firewall ports as listed by rpcinfo -p
#
firewall-cmd --permanent --add-port=111/tcp
firewall-cmd --permanent --add-port=111/udp
firewall-cmd --permanent --add-port=20048/udp
firewall-cmd --permanent --add-port=20049/tcp
firewall-cmd --permanent --add-port=2049/udp
firewall-cmd --permanent --add-port=2049/tcp
firewall-cmd --permanent --add-port=38966/udp
firewall-cmd --permanent --add-port=38966/tcp
firewall-cmd --permanent --add-port=46522/udp
firewall-cmd --permanent --add-port=46522/tcp
firewall-cmd --reload
```

The presentation creates a shell script to open the necessary ports as shown.

```
^G Get Help      ^O WriteOut     ^R Read File    ^Y Prev Page    ^K Cut Text      ^C Cur Pos
^X Exit          ^J Justify      ^W Where Is    ^V Next Page    ^U UnCut Text   ^T To Spell
```





Home



Trash

preuss@nfs-server:/home/preuss

File Edit View Search Terminal Help

```
[root@nfs-server preuss]# chmod 700 firewall_rpcinfo.sh  
[root@nfs-server preuss]# ./firewall_rpcinfo.sh
```

The presentation makes the shell script executable as shown.  
The presentation runs the shell script "firewall\_rpcinfo.sh"



Home



Trash

File Edit View Search Terminal Help

```
[root@nfs-server preuss]# chmod 700 firewall_rpcinfo.sh
```

```
[root@nfs-server preuss]# ./firewall_rpcinfo.sh
```

```
success
```

```
success
```

```
success
```

```
success
```

```
success
```

```
success
```

```
success
```

```
success
```

```
success
```

```
success
```

```
success
```

```
[root@nfs-server preuss]# █
```

The script successfully opens the firewall ports.

preuss@nfs-client:/home/preuss

File Edit View Search Terminal Help

[preuss@nfs-client ~]\$ su

Password:

[root@nfs-client preuss]# yum install nfs-utils nfs-utils-lib

The presentation is now log in to "nfs-client" machine.

The presentation opens the terminal and becomes root as shown.

The presentation issues the command to install nfs.



Home



Trash

preuss@nfs-client:/home/preuss

File Edit View Search Terminal Help

[preuss@nfs-client ~]\$ su

Password:

[root@nfs-client preuss]# yum install nfs-utils nfs-utils-lib

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

\* base: mirror.tzulo.com

\* extras: repo.miserver.it.umich.edu

\* updates: mirrors.usinternet.com

Package 1:nfs-utils-1.3.0-0.65.el7.x86\_64 already installed and latest version

No package **nfs-utils-lib** available.

Nothing to do

[root@nfs-client preuss]#

The presentation finds all the necessary programs are installed.

preuss@nfs-client:/home/preuss

File Edit View Search Terminal Help

```
[root@nfs-client preuss]# systemctl enable rpcbind
[root@nfs-client preuss]# systemctl enable nfs-server
Created symlink from /etc/systemd/system/multi-user.target.wants/nfs-server.service to /usr/lib/systemd/system/nfs-server.service.
[root@nfs-client preuss]# systemctl enable nfs-lock
[root@nfs-client preuss]# systemctl enable nfs-idmap
[root@nfs-client preuss]#
```

The presentation issues the "systemctl" commands to enable nfs.



Home



Trash



preuss@nfs-client:/home/preuss

File Edit View Search Terminal Help

```
[root@nfs-client preuss]# systemctl start rpcbind
[root@nfs-client preuss]# systemctl start nfs-server
[root@nfs-client preuss]# systemctl start nfs-lock
[root@nfs-client preuss]# systemctl start nfs-idmap
[root@nfs-client preuss]# █
```

The presentation issues the "systemctl" commands to start nfs.



preuss@nfs-client:/home/preuss

File Edit View Search Terminal Help

```
[root@nfs-client preuss]# mkdir /mnt/share10  
[root@nfs-client preuss]# mkdir /mnt/share20  
[root@nfs-client preuss]# █
```



Home



Trash

The presentation creates the receiving directories on "nfs-client".









Home



Trash

preuss@nfs-server:/home/preuss

File Edit View Search Terminal Help

```
[root@nfs-server preuss]# ls -l /var/share01
total 0
-rw-r--r--. 1 nfsnobody nfsnobody 0 Nov 26 21:12 silly_example_nfs.txt
-rw-rw-r--. 1 preuss preuss 0 Nov 26 21:13 yet_another_silly_nfs.txt
[root@nfs-server preuss]#
```

The presentation returns to nfs-server and sees the newly created files in /var/share10.














- Favorites
- Accessories
- Documentation
- Internet
- Office
- Sound & Video
- Sundry
- System Tools
- Utilities
- Other

Activities Overview

-  Empathy
-  Firefox
-  Wireshark Network Analyzer

The presentation starts Wireshark from the menu as shown.







Filter:  Expression... Clear Apply Save



# The World's Most Popular Network Protocol Analyzer

Version 1.10.14 (Git Rev Unknown from unknown)

## Capture

## Files

## Online

### Interface List

Live list of the capture interfaces (counts incoming packets)

### Start

Choose one or more interfaces to capture from, then **Start**

- virbr0
- bluetooth0
- nflog
- nfqueue
- ens33**
- any

### Capture Op

Start a capture with

### How to Cap

Step by step to a suc

Ready to load or capture

### Open

Open a previously captured file

Open Recent:

### Sample Captures

A rich assortment of example capture files on the wiki

### Website

Visit the project's website

### User's Guide

The User's Guide (online version)

### Security

Work with Wireshark as securely as possible

The presentation starts Wireshark listening on the current ethernet port (ens33).



Capturing from ens33 [Wireshark 1.10.14 (Git Rev Unknown from unknown)]

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help



Filter:  Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
26	1.091258946	fe80::b551:3bad:2b68::ff02::fb		MDNS	95	Standard query 0x0000 A vff-print.local, "QM" question
27	1.503754624	192.168.117.1	192.168.117.255	NBNS	92	Name query NB VFF-PRINT<20>

- ▶ Frame 1: 92 bytes on wire (736 bits), 92 bytes captured (736 bits) on interface 0
- ▶ Ethernet II, Src: Vmware\_c0:00:08 (00:50:56:c0:00:08), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
- ▶ Internet Protocol Version 4, Src: 192.168.117.1 (192.168.117.1), Dst: 192.168.117.255 (192.168.117.255)
- ▶ User Datagram Protocol, Src Port: netbios-ns (137), Dst Port: netbios-ns (137)
- ▶ NetBIOS Name Service

The presentation sees Wireshark is now collecting packets.

```

0000  ff ff ff ff ff ff 00 50 56 c0 00 08 08 00 45 00  .....P V.....E.
0010  00 4e 1c 25 00 00 80 11 b2 28 c0 a8 75 01 c0 a8  .N.%.... (.u...
0020  75 ff 00 89 00 89 00 3a 8f 21 91 7a 01 10 00 01  u.....: !.z....
0030  00 00 00 00 00 00 20 46 47 45 47 45 47 43 4e 46  ..... F GEGEGCNF

```











### Wireshark: Export as "Plain Text" File

Export to file:

Packet Range

	Captured	Displayed
<input type="radio"/> All packets	538	511
<input type="radio"/> Selected packet only	1	1
<input type="radio"/> Marked packets only	0	0
<input type="radio"/> From first to last marked packet	0	0
<input checked="" type="radio"/> Specify a packet range:	9	9

Remove Ignored packets

Packet Format

Packet summary line

Packet details:

All collapsed

As displayed

All expanded

Packet bytes

Each packet on a new page

The presentation provides a file name as shown.

The presentation specifies which packets to export to a file.

The presentation selects "OK" to export the packets.

No.	Time	Source	Destination	Protocol	Length	Info
5	0.000000	192.168.117.1	224.0.0.251	LLMNR	89	Standard query 0xcd2f AAAA vff-print
6	0.000000	192.168.117.1	224.0.0.251	LLMNR	89	Standard query 0x7358 A vff-print
7	0.000000	192.168.117.1	224.0.0.251	LLMNR	69	Standard query 0xcd2f AAAA vff-print
8	0.000000	192.168.117.1	224.0.0.251	LLMNR	69	Standard query 0x7358 A vff-print
9	0.000000	192.168.117.1	224.0.0.251	NBNS	92	Name query NB VFF-PRINT<20>
10	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
11	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
12	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
13	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
14	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
15	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
16	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
17	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
18	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
19	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
20	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
21	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
22	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
23	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
24	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
25	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
26	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
27	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
28	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
29	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
30	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
31	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
32	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
33	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
34	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
35	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
36	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
37	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
38	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
39	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
40	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
41	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
42	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
43	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
44	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
45	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
46	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
47	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
48	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
49	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
50	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
51	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
52	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
53	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
54	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
55	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
56	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
57	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
58	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
59	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
60	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
61	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
62	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
63	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
64	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
65	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
66	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
67	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
68	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
69	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
70	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
71	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
72	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
73	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
74	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
75	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
76	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
77	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
78	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
79	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
80	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
81	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
82	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
83	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
84	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
85	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
86	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
87	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
88	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
89	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
90	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
91	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
92	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
93	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
94	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
95	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
96	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,
97	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 AAAA vff-print.local,
98	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 A vff-print.local, "Q"
99	0.000000	192.168.117.1	224.0.0.252	MDNS	95	Standard query 0x0000 A vff-print.local, "Q"
100	0.000000	192.168.117.1	224.0.0.252	MDNS	75	Standard query 0x0000 AAAA vff-print.local,

```

0000  ff ff ff ff ff ff 00 0c 29 0c cc 3b 08 06 00 01  ..... )..;....
0010  08 00 06 04 00 01 00 0c 29 0c cc 3b c0 a8 75 8b  ..... )..;..u.
0020  00 00 00 00 00 00 c0 a8 75 02  ..... u.

```



```

No.      Time                Source                Destination            Protocol Length Info
 380 2019-11-26 21:26:17.022439179 192.168.117.1          224.0.0.252           LLMNR      69      Standard query 0x7358 A vff-print

Frame 380: 69 bytes on wire (552 bits), 69 bytes captured (552 bits) on interface 0
Ethernet II, Src: Vmware_c0:00:08 (00:50:56:c0:00:08), Dst: IPv4mcast_00:00:fc (01:00:5e:00:00:fc)
Internet Protocol Version 4, Src: 192.168.117.1 (192.168.117.1), Dst: 224.0.0.252 (224.0.0.252)
User Datagram Protocol, Src Port: 52470 (52470), Dst Port: llmnr (5355)
Link-local Multicast Name Resolution (query)

No.      Time                Source                Destination            Protocol Length Info
 381 2019-11-26 21:26:17.360410368 192.168.117.1          192.168.117.255       NBNS       92      Name query NB VFF-PRINT<20>

Frame 381: 92 bytes on wire (736 bits), 92 bytes captured (736 bits) on interface 0
Ethernet II, Src: Vmware_c0:00:08 (00:50:56:c0:00:08), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
Internet Protocol Version 4, Src: 192.168.117.1 (192.168.117.1), Dst: 192.168.117.255 (192.168.117.255)
User Datagram Protocol, Src Port: netbios-ns (137), Dst Port: netbios-ns (137)
NetBIOS Name Service

No.      Time                Source                Destination            Protocol Length Info
 382 2019-11-26 21:26:17.609975605 192.168.117.1          224.0.0.251           MDNS       75      Question

Frame 382: 75 bytes on wire (600 bits), 75 bytes captured (600 bits) on interface 0
Ethernet II, Src: Vmware_c0:00:08 (00:50:56:c0:00:08), Dst: IPv4mcast_00:00:fb (01:00:5e:00:00:fb)
Internet Protocol Version 4, Src: 192.168.117.1 (192.168.117.1), Dst: 224.0.0.251 (224.0.0.251)
User Datagram Protocol, Src Port: mdns (5353), Dst Port: mdns (5353)
Domain Name System (query)

No.      Time                Source                Destination            Protocol Length Info
 383 2019-11-26 21:26:17.610621062 fe80::b551:3bad:2b68:8b4f ff02::fb             MDNS       95      "QM" question

Frame 383: 95 bytes on wire (760 bits), 95 bytes captured (760 bits) on interface 0
Ethernet II, Src: Vmware_c0:00:08 (00:50:56:c0:00:08), Dst: IPv6mcast_00:00:00:fb (33:33:00:00:00:fb)
Internet Protocol Version 6, Src: fe80::b551:3bad:2b68:8b4f (fe80::b551:3bad:2b68:8b4f), Dst: ff02::fb (ff02::fb)
User Datagram Protocol, Src Port: mdns (5353), Dst Port: mdns (5353)
Domain Name System (query)

```

This is an example output from Wireshark.