NSSA221 Systems Administration I
Lab 01 Report

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SCREENSHOTS:

Figure 1 – Windows 2019 Server System Information:

Figure 2 – Windows 2019 Server Network Information:

```
Administrator: Windows PowerShell
                              DHCP Enabled:     No
                              IP address(es)
                              [01]: 192.168.1.1
                              [02]: fe80::50fa:a602:b93f:87d6
Hyper-V Requirements:     A hypervisor has been detected. Features required for Hyper-V will not be displayed.
PS C:\Users\Administrator> ipconfig /all

Windows IP Configuration

   Host Name . . . . . . . . . . . . : winservmea9294
   Primary Dns Suffix  . . . . . . . :
   Node Type . . . . . . . . . . . . : Hybrid
   IP Routing Enabled. . . . . . . . : No
   WINS Proxy Enabled. . . . . . . . : No

Ethernet adapter Ethernet0:

   Connection-specific DNS Suffix  . :
   Description . . . . . . . . . . . : Intel(R) 82574L Gigabit Network Connection
   Physical Address. . . . . . . . . : 00-50-56-B0-37-99
   DHCP Enabled. . . . . . . . . . . : No
   Autoconfiguration Enabled . . . . : Yes
   Link-local IPv6 Address . . . . . : fe80::50fa:a602:b93f:87d6%5(Preferred)
   IPv4 Address. . . . . . . . . . . : 192.168.1.1(Preferred)
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.1.254
   DHCPv6 IAID . . . . . . . . . . . : 67129430
   DHCPv6 Client DUID. . . . . . . . : 00-01-00-01-2B-58-18-5C-00-50-56-B0-37-99
   DNS Servers . . . . . . . . . . . : 8.8.8.8
   NetBIOS over Tcpip. . . . . . . . : Enabled
PS C:\Users\Administrator>
```

Figure 3 – PfSense Dashboard:

Figure 4 – CentOS 8 System Version:

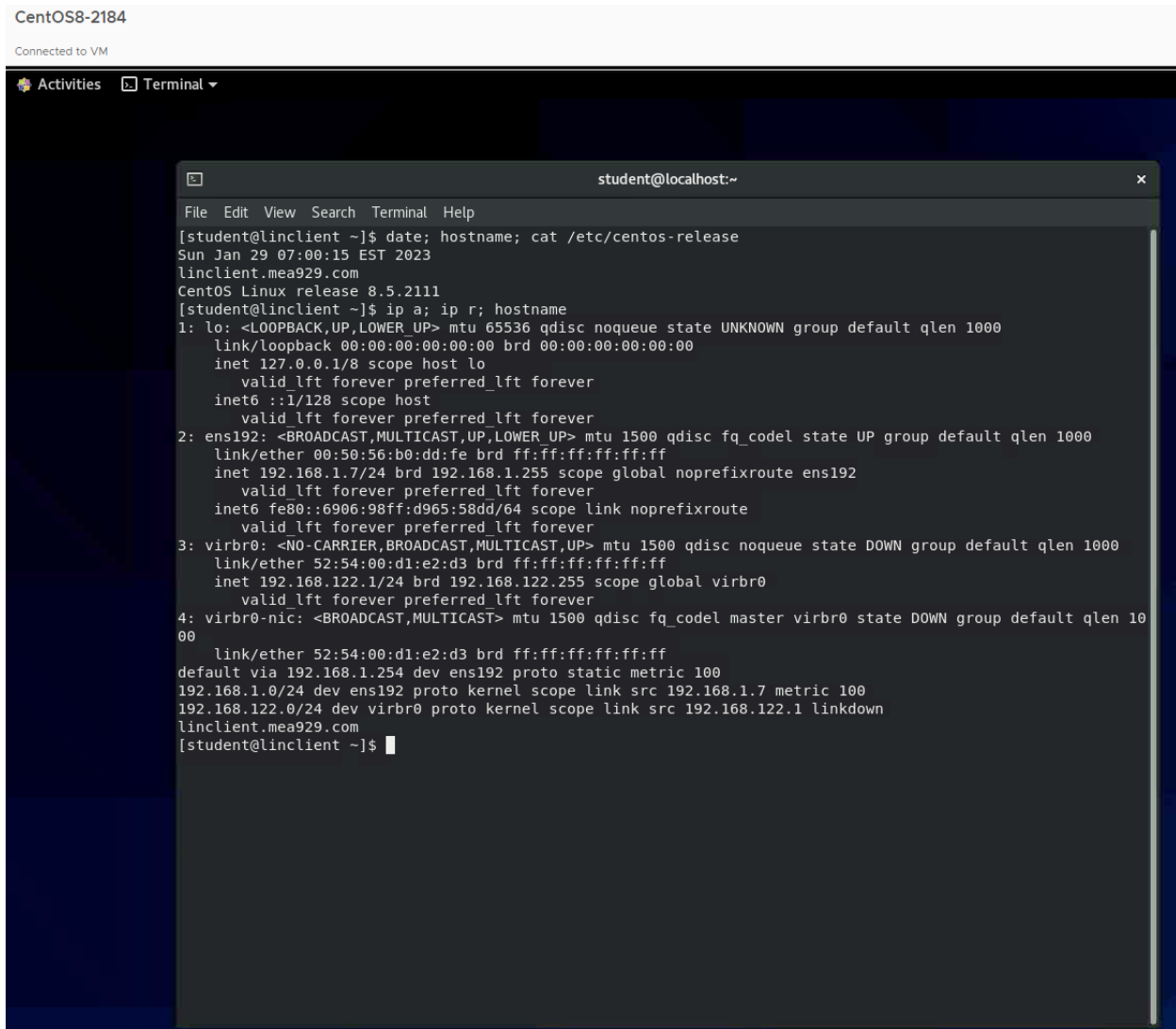# Figure 5 – CentOS 8 Network Information:


```
CentOS8-2184
Connected to VM

Activities    Terminal

                        student@localhost:~                          ×
File  Edit  View  Search  Terminal  Help
[student@linclient ~]$ date; hostname; cat /etc/centos-release
Sun Jan 29 07:00:15 EST 2023
linclient.mea929.com
CentOS Linux release 8.5.2111
[student@linclient ~]$ ip a; ip r; hostname
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: ens192: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:50:56:b0:dd:fe brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.7/24 brd 192.168.1.255 scope global noprefixroute ens192
       valid_lft forever preferred_lft forever
    inet6 fe80::6906:98ff:d965:58dd/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
3: virbr0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default qlen 1000
    link/ether 52:54:00:d1:e2:d3 brd ff:ff:ff:ff:ff:ff
    inet 192.168.122.1/24 brd 192.168.122.255 scope global virbr0
       valid_lft forever preferred_lft forever
4: virbr0-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc fq_codel master virbr0 state DOWN group default qlen 10
00
    link/ether 52:54:00:d1:e2:d3 brd ff:ff:ff:ff:ff:ff
default via 192.168.1.254 dev ens192 proto static metric 100
192.168.1.0/24 dev ens192 proto kernel scope link src 192.168.1.7 metric 100
192.168.122.0/24 dev virbr0 proto kernel scope link src 192.168.122.1 linkdown
linclient.mea929.com
[student@linclient ~]$
```
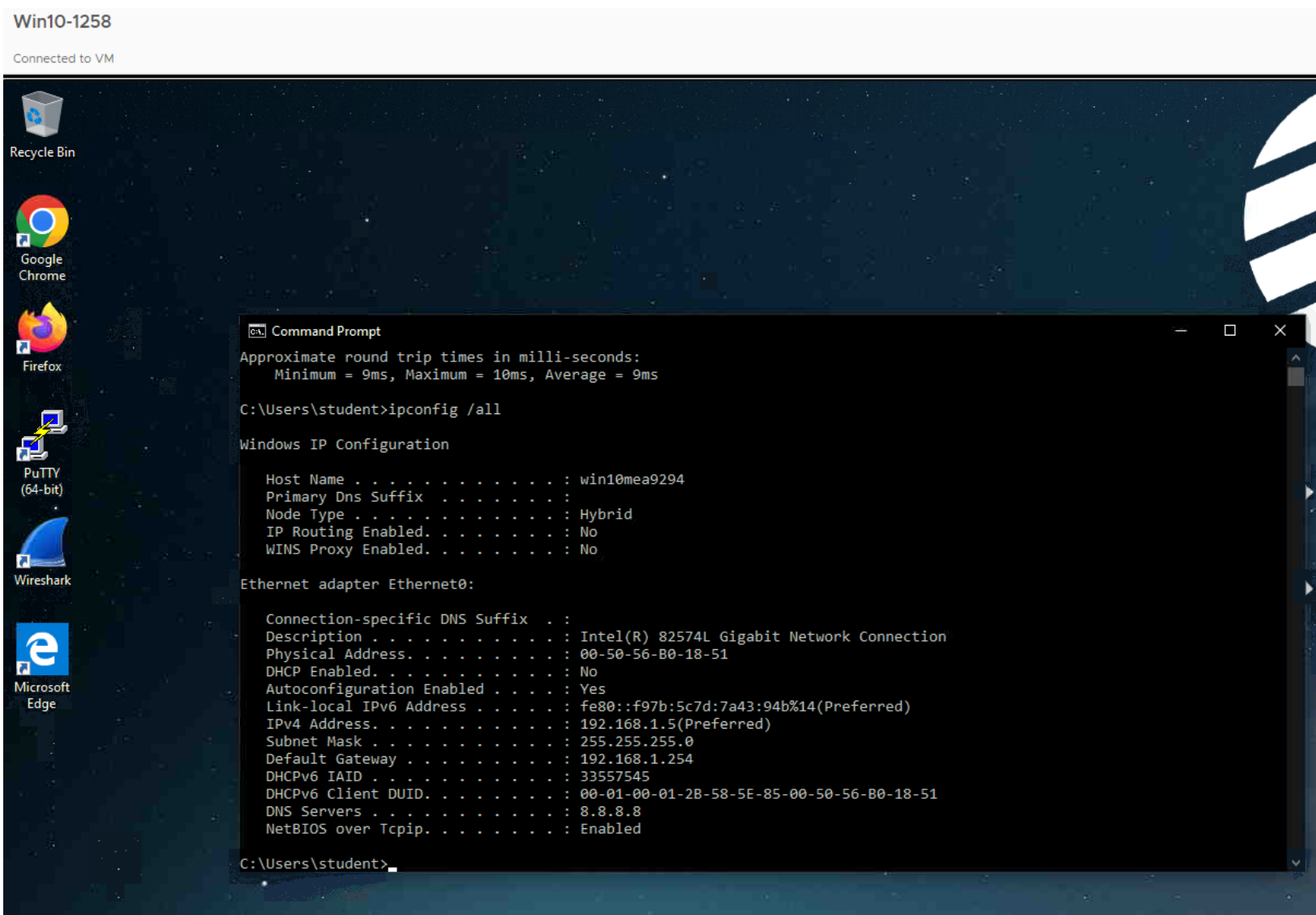
Figure 6 – Windows 10 Network Information:

Figure 7 – Git Repository Verification:

MobaXterm terminal session showing:

```
• MobaXterm Personal Edition v22.3 •
(X server, SSH client and network tools)

▸ Your computer drives are accessible through the /drives path
▸ Your DISPLAY is set to 192.168.0.114:0.0
▸ When using SSH, your remote DISPLAY is automatically forwarded
▸ Each command status is specified by a special symbol (✔ or ✘)

• Important:
This is MobaXterm Personal Edition. The Professional edition
allows you to customize MobaXterm for your company: you can add
your own logo, your parameters, your welcome message and generate
either an MSI installation package or a portable executable.
We can also modify MobaXterm or develop the plugins you need.
For more information: https://mobaxterm.mobatek.net/download.html
```

```
🗓 29/01/2023   🕐 16:17.38   📁 /home/mobaxterm   ssh mea9294@solace.ist.rit.e
du
mea9294@solace.ist.rit.edu's password:
mea9294@solace.ist.rit.edu's password:
Last login: Tue Jan 24 14:00:22 2023 from 10.100.227.61

You have logged into ist-solace.main.ad.rit.edu (aka solace.ist.rit.edu)

If you have problems with or questions about IST-Solace, contact
the GCCIS IT Help Desk (gccisit@rit.edu)

Disk quotas are in effect - check your quota with '/usr/bin/quota -v'

See http://ist-solace.main.ad.rit.edu/usage for IST-Solace's web statistics


\[mea9294@ist-solace ~]$ date
Sun Jan 29 07:20:20 EST 2023
[mea9294@ist-solace ~]$ cat ~/.gitconfig
[user]
        name = Mohammed Abu Mustafa
        email = mea9294@rit.edu
[push]
        default = matching
[mea9294@ist-solace ~]$ ls -lA
total 32
-rw-------. 1 mea9294 domain^users 287 Jan 24 14:06 .bash_history
-rw-r--r--. 1 mea9294 domain^users  18 Jan 24 14:00 .bash_logout
-rw-r--r--. 1 mea9294 domain^users 193 Jan 24 14:00 .bash_profile
-rw-r--r--. 1 mea9294 domain^users 231 Jan 24 14:00 .bashrc
drwxr-xr-x. 3 mea9294 domain^users  18 Jan 24 14:00 .cache
drwxr-xr-x. 3 mea9294 domain^users  18 Jan 24 14:00 .config
-rw-r--r--. 1 mea9294 domain^users   0 Jan 24 14:00 .firstlogin
-rw-r--r--. 1 mea9294 domain^users  88 Jan 24 14:02 .gitconfig
-rw-r--r--. 1 mea9294 domain^users  40 Jan 24 14:00 .k5login
drwxrws---+ 2 mea9294 instructors    6 Jan 24 14:00 logs
drwxr-xr-x. 7 mea9294 domain^users 119 Jan 24 14:04 mea9294SiteBook.git
drwxr-xr-x. 4 mea9294 domain^users  39 Jan 24 14:00 .mozilla
-rw-------. 1 mea9294 domain^users 534 Jan 24 17:17 .my.cnf
lrwxrwxrwx. 1 mea9294 domain^users   5 Jan 24 14:00 public_html → Sites
drwxrws---+ 2 mea9294 instructors    6 Jan 24 14:00 repos
drwxrws---+ 3 mea9294 instructors   39 Jan 24 17:17 Sites
drwx------. 2 mea9294 domain^users  38 Jan 24 14:04 .ssh
lrwxrwxrwx. 1 mea9294 domain^users   5 Jan 24 14:00 www → Sites
-rw-------. 1 mea9294 domain^users  56 Jan 29 07:18 .Xauthority
[mea9294@ist-solace ~]$
```