

NSSA221 Systems Administration I Lab 01 Report

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Grade ____/50

SCREENSHOTS:

Figure 1 – Windows 2019 Server System Information:

```
Administrator: Windows PowerShell

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>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator> systeminfo.exe

Host Name:                WINSERVMEA9294
OS Name:                   Microsoft Windows Server 2019 Datacenter
OS Version:                10.0.17763 N/A Build 17763
OS Manufacturer:          Microsoft Corporation
OS Configuration:          Standalone Server
OS Build Type:              Multiprocessor Free
Registered Owner:          Windows User
Registered Organization:
Product ID:                 00430-00000-00000-AA673
Original Install Date:      3/5/2019, 1:52:38 PM
System Boot Time:           1/24/2023, 3:25:13 AM
System Manufacturer:        VMware, Inc.
System Model:               VMware Virtual Platform
System Type:                x64-based PC
Processor(s):               2 Processor(s) Installed.
                           [01]: Intel64 Family 6 Model 58 Stepping 0 GenuineIntel ~2400 Mhz
                           [02]: Intel64 Family 6 Model 58 Stepping 0 GenuineIntel ~2400 Mhz
BIOS Version:               Phoenix Technologies LTD 6.00, 12/12/2018
Windows Directory:          C:\Windows
System Directory:            C:\Windows\system32
Boot Device:                 \Device\HarddiskVolume1
System Locale:                en-us;English (United States)
Input Locale:                 en-us;English (United States)
Time Zone:                   (UTC-05:00) Eastern Time (US & Canada)
Total Physical Memory:       16,383 MB
Available Physical Memory:   14,316 MB
Virtual Memory: Max Size:    18,815 MB
Virtual Memory: Available:   17,075 MB
Virtual Memory: In Use:      1,740 MB
Page File Location(s):       C:\pagefile.sys
Domain:                       WORKGROUP
Logon Server:                 \\WINSERVMEA9294
Hotfix(s):                   16 Hotfix(s) Installed.
                           [01]: KB4601558
                           [02]: KB4470788
                           [03]: KB4480056
                           [04]: KB4494174
                           [05]: KB4509095
                           [06]: KB4512937
                           [07]: KB4516115
                           [08]: KB4523204
                           [09]: KB4535680
                           [10]: KB4558997
                           [11]: KB4561600
                           [12]: KB4577586
                           [13]: KB4580325
                           [14]: KB4589208
                           [15]: KB5003243
                           [16]: KB5003171
Network Card(s):             1 NIC(s) Installed.
                           [01]: Intel(R) 82574L Gigabit Network Connection
                               Connection Name: Ethernet0
                               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>
```

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:

WinServ2019-0749
Connected to VM

gateway.mea9294.com - St...

pfSense System Interfaces Firewall Services VPN Status Diagnostics Help

WARNING: The 'admin' account password is set to the default value. [Change the password in the User Manager.](#)

Status / Dashboard

System Information	
Name	gateway.mea9294.com
User	admin@192.168.1.1 (Local Database)
System	VMware Virtual Machine Netgate Device ID: dfa4004b7f0b109f2e10
BIOS	Vendor: Phoenix Technologies LTD Version: 6.00 Release Date: Wed Dec 12 2018
Version	2.4.4-RELEASE-p3 (amd64) built on Wed May 15 18:53:44 EDT 2019 FreeBSD 11.2-RELEASE-p10 Version 2.5.1 is available. Version information updated at Tue Jan 17 9:25:22 UTC 2023
CPU Type	Intel(R) Xeon(R) CPU E5-2640 v4 @ 2.40GHz AES-NI CPU Crypto: Yes (inactive)
Kernel PTI	Enabled
Uptime	16 Hours 29 Minutes 33 Seconds
Current date/time	Sun Jan 29 11:58:30 UTC 2023
DNS server(s)	<ul style="list-style-type: none"> 127.0.0.1 129.21.3.17 129.21.4.18 8.8.8.8 192.21.3.17
Last config change	Tue Jan 17 9:38:04 UTC 2023

Netgate Services And Support	
Contract type	Community Support Community Support Only
NETGATE AND pfSense COMMUNITY SUPPORT RESOURCES If you purchased your pfSense gateway firewall appliance from Netgate and elected Community Support at the point of sale or installed pfSense on your own hardware, you have access to various community support resources. This includes the NETGATE RESOURCE LIBRARY . You also may upgrade to a Netgate Global Technical Assistance Center (TAC) Support subscription. We're always on! Our team is staffed 24x7x365 and committed to delivering enterprise-class, worldwide support at a price point that is more than competitive when compared to others in our space. <ul style="list-style-type: none"> Upgrade Your Support Community Support Resources Netgate Global Support FAQ Official pfSense Training by Netgate Netgate Professional Services Visit Netgate.com 	
If you decide to purchase a Netgate Global TAC Support subscription, you MUST have your Netgate Device ID (NDI) from your firewall in order to validate support for this unit. Write down your NDI and store it in a safe place. You can purchase TAC support here .	

Interfaces

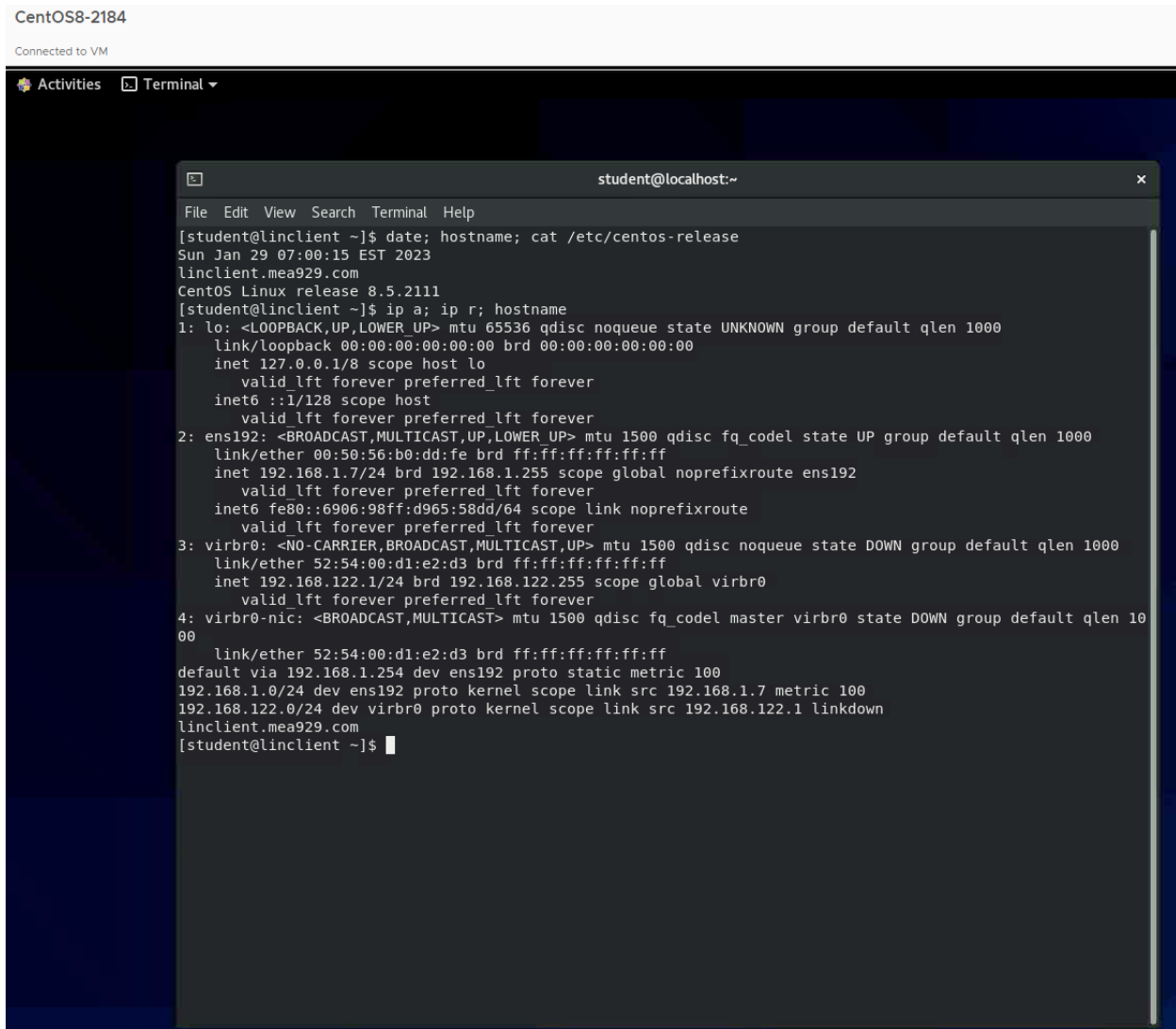
Figure 4 – CentOS 8 System Version:

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 ~]$
  
```

Figure 5 – CentOS 8 Network Information:

The screenshot shows a terminal window titled "student@localhost:~" with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal output displays the following information:

```
[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 1000
    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 ~]$
```

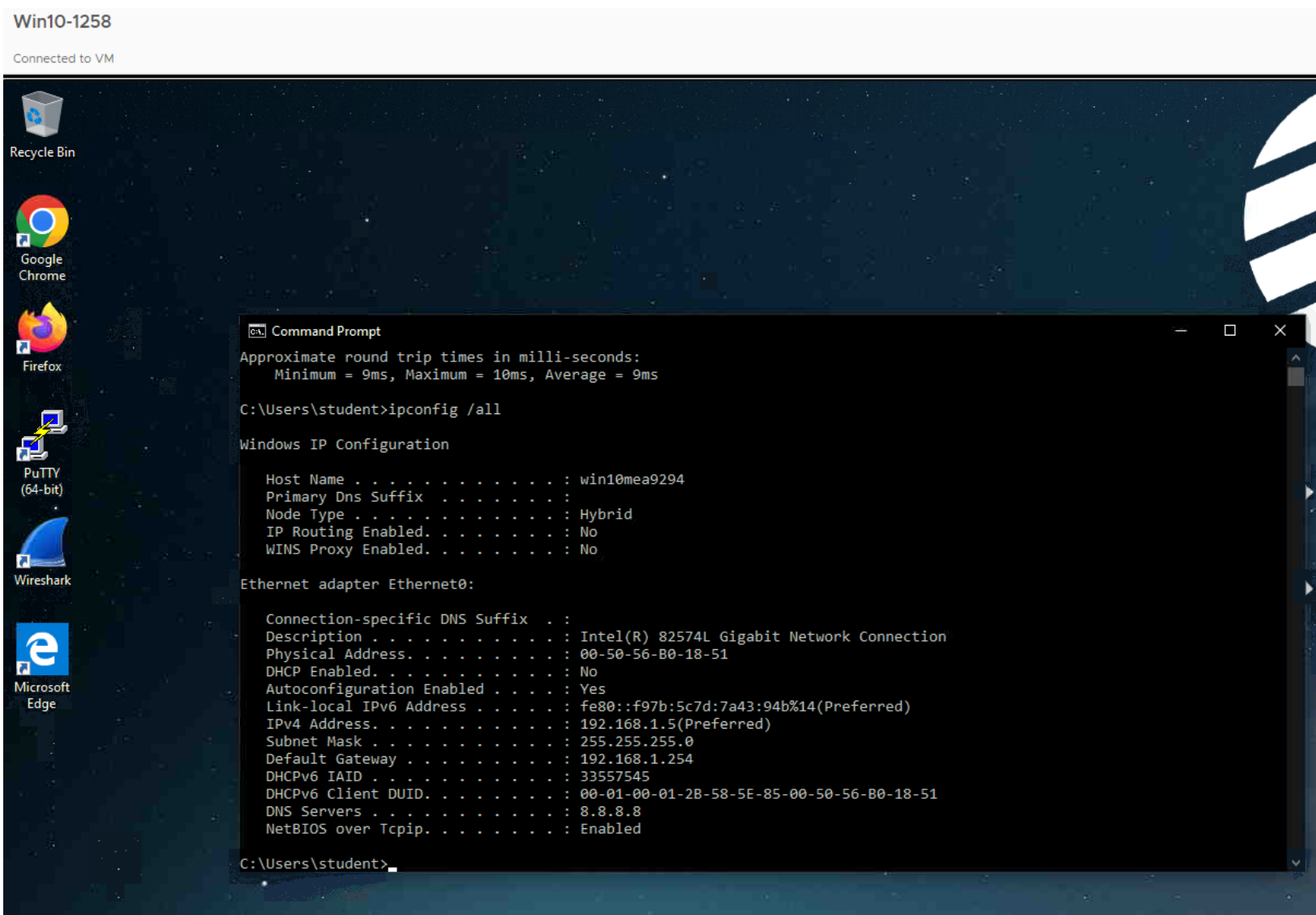
Figure 6 – Windows 10 Network Information:

Figure 7 – Git Repository Verification:



```
mea9294@ist-solace:~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...
/home/MAIN/mea9294/

Name
..
.cache
.config
.mozilla
.ssh
logs
mea9294SiteBook.git
repos
Sites
.bash_history
.bash_logout
.bash_profile
.bashrc
.firstlogin
.gitconfig
.k5login
.my.cnf
.Xauthority
public_html
www

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.edu
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-r--r-- 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-r--r-- 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
drwxrws--- 2 mea9294 domain^users 38 Jan 24 14:04 .ssh
lrwxrwxrwx 1 mea9294 domain^users 5 Jan 24 14:00 www → Sites
-rw-r--r-- 1 mea9294 domain^users 56 Jan 29 07:18 .Xauthority
\[mea9294@ist-solace ~\]$
```

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