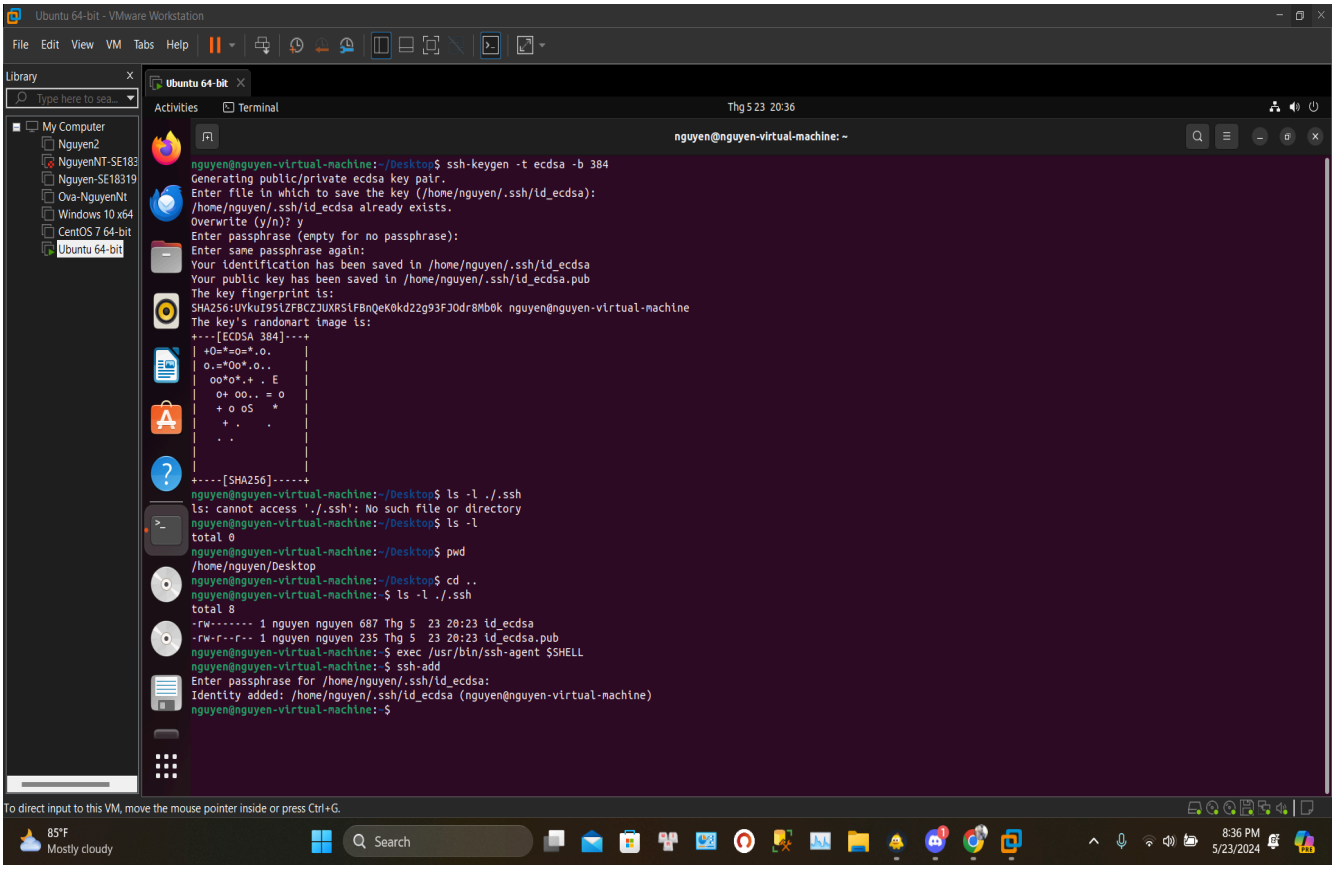
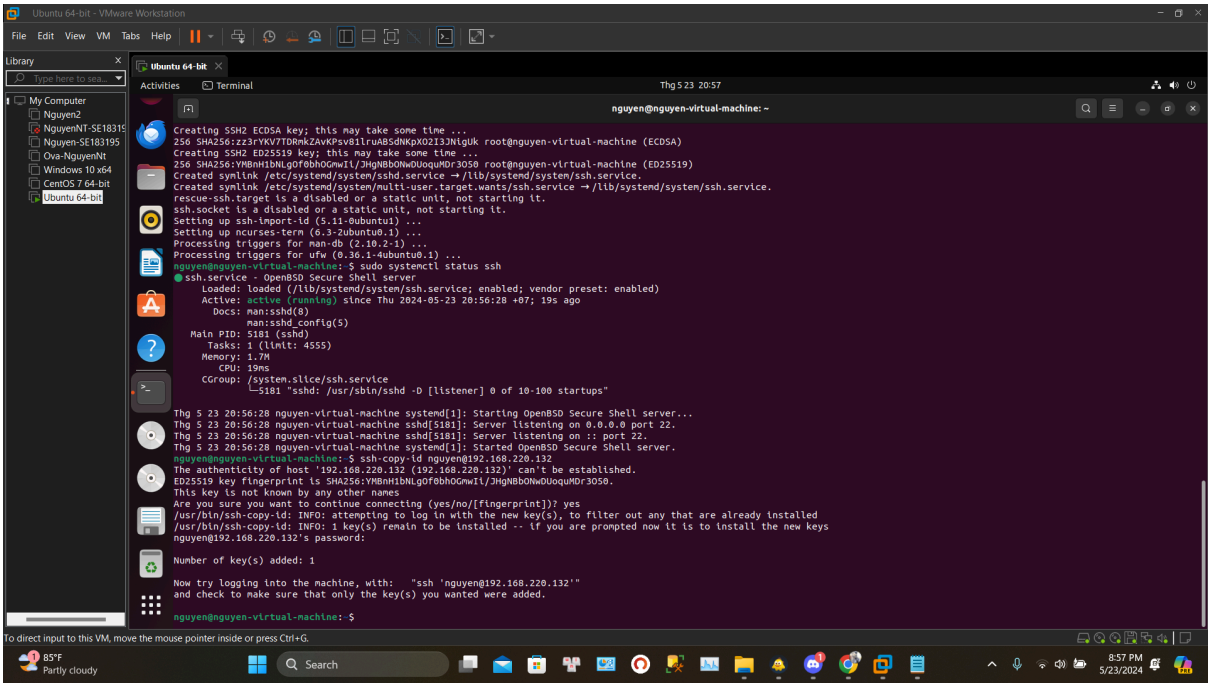
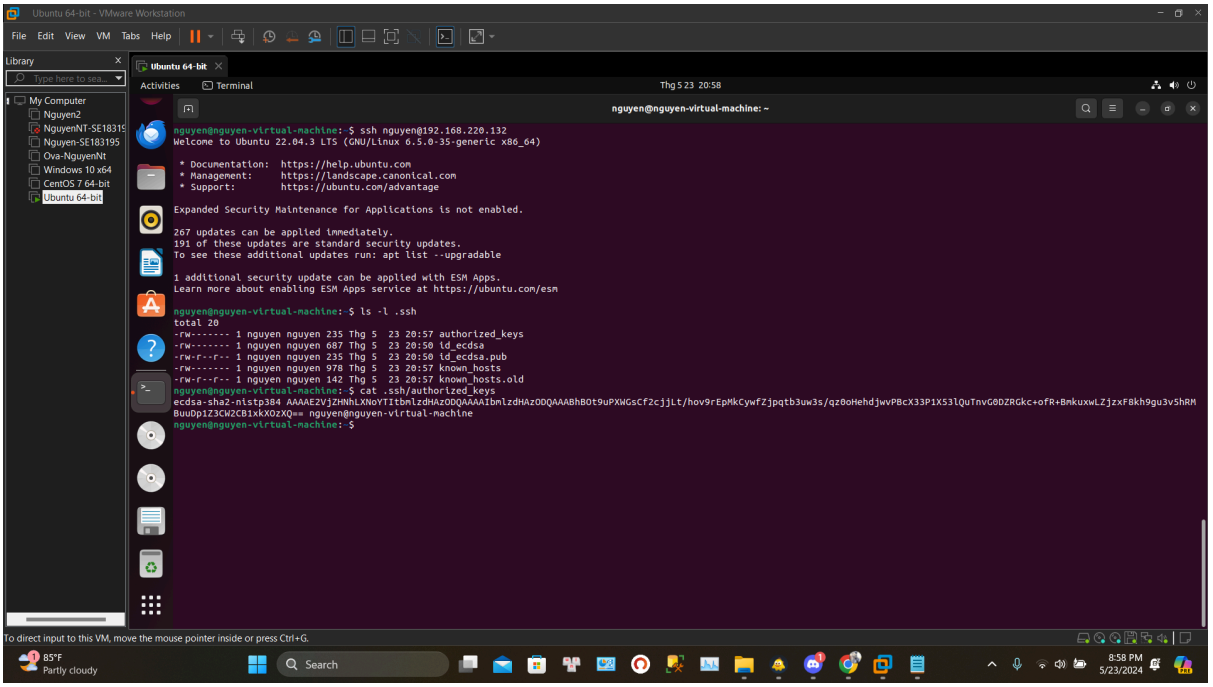
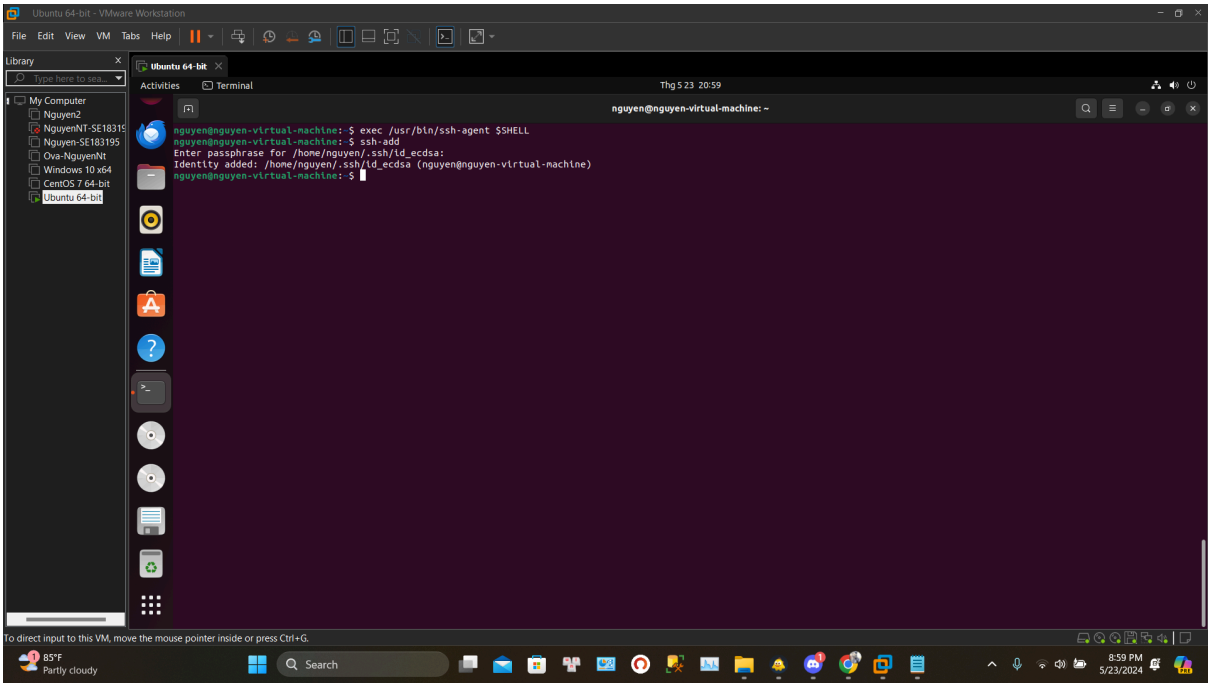
LAB 4 – Applying Hardened Linux File System Security Controls

6.1 – Creating and Transferring SSH Keys:

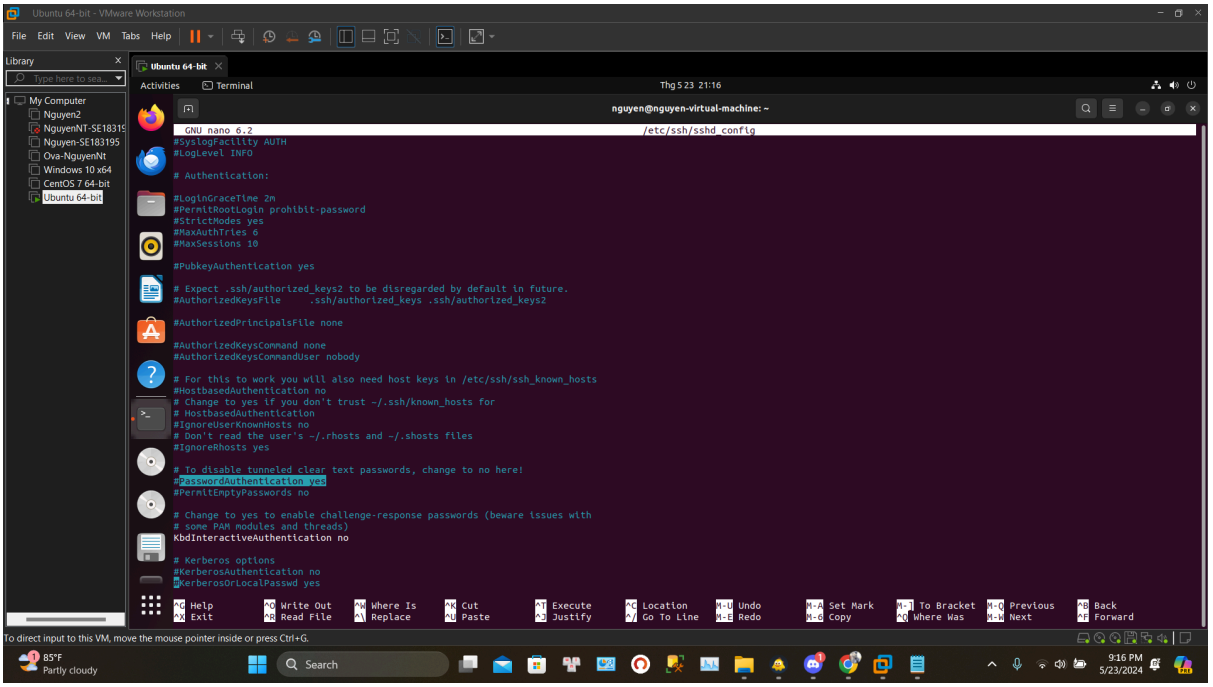


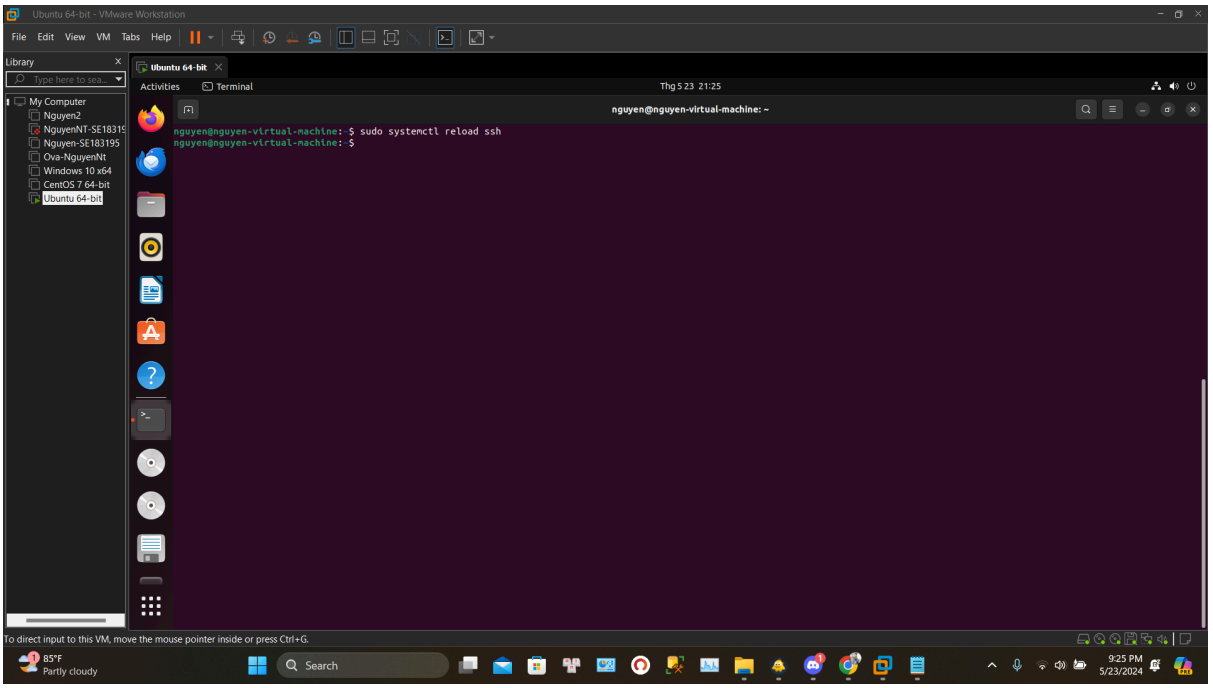




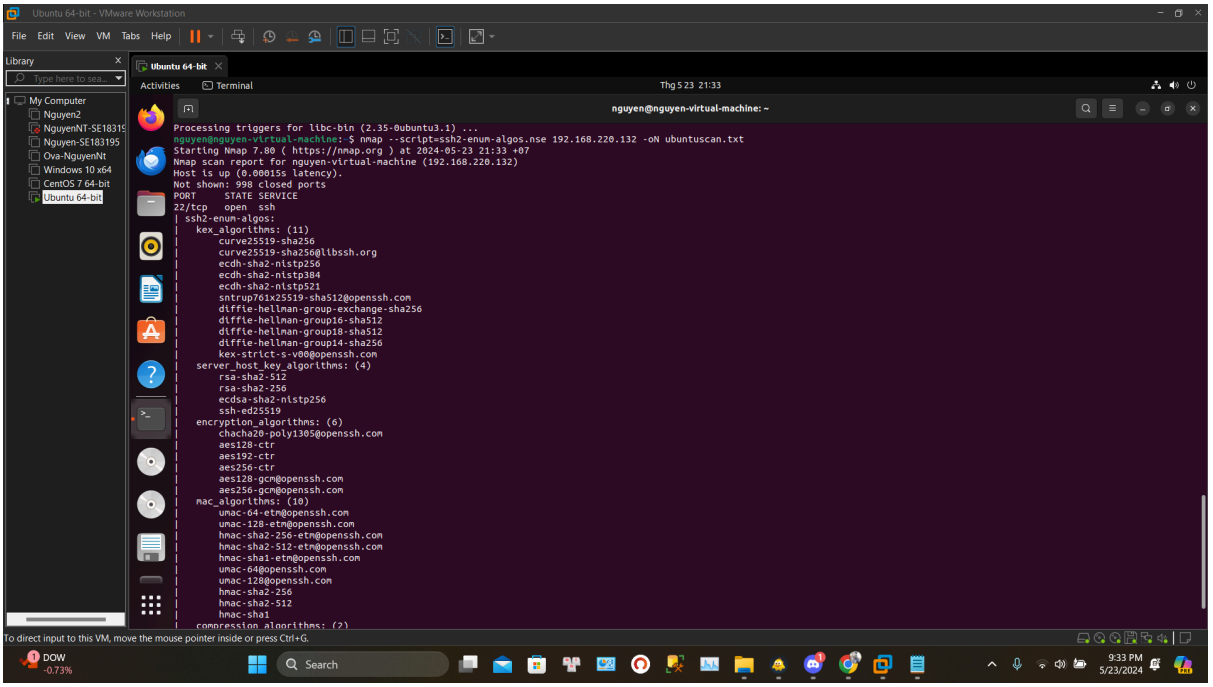


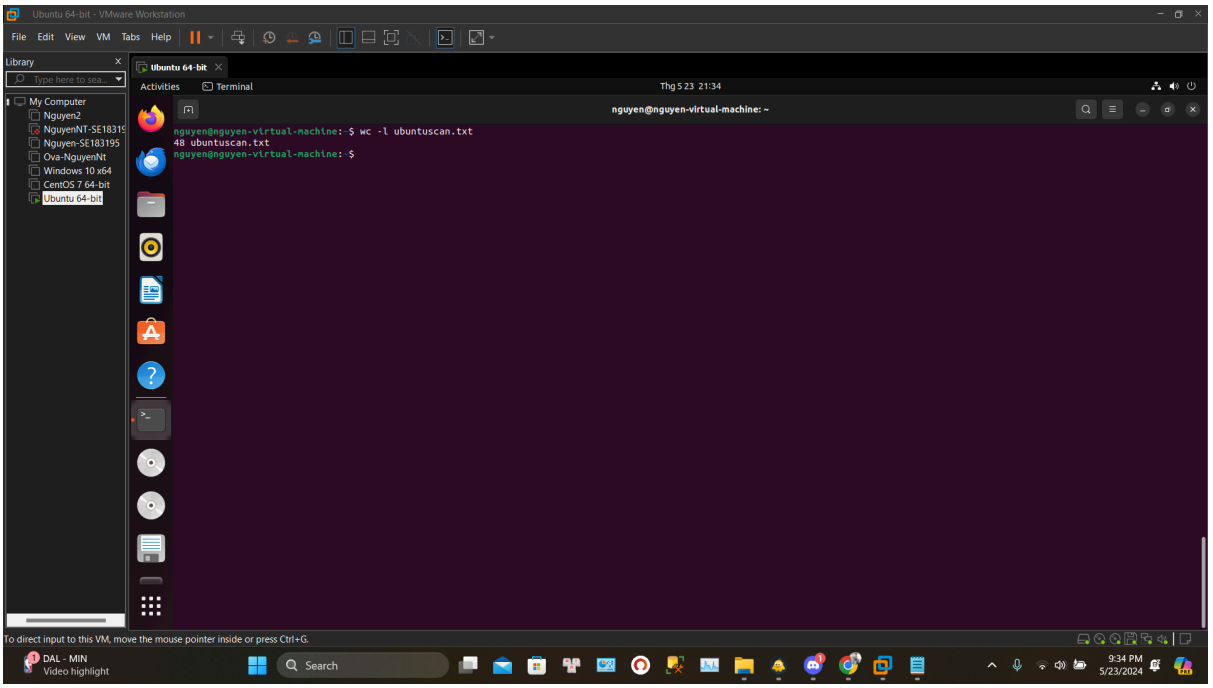
6.2 – Disabling root login and password authentication





6.6 – Disabling weak SSH encryption algorithms – Ubuntu 22.04


Ubuntu 64-bit - VMware Workstation
File Edit View VM Tabs Help
Library
My Computer
Nguyen2
NguyenNT-SE18319
Nguyen-SE183195
Ova-NguyenNt
Windows 10 x64
CentOS 7 64-bit
Ubuntu 64-bit
Ubuntu 64-bit
Activities
Terminal
Thg 5 23 21:33
nguyen@nguyen-virtual-machine: ~
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
nguyen@nguyen-virtual-machine:~$ nmap --script=ssh2-enum-algos.nse 192.168.220.132 -oN ubuntuscan.txt
Starting Nmap 7.80 (https://nmap.org) at 2024-05-23 21:33 +07
Nmap scan report for nguyen-virtual-machine (192.168.220.132)
Host is up (0.00015s latency).
Not shown: 998 closed ports
PORT STATE SERVICE
22/tcp open ssh
| ssh2-enum-algos:
| kex_algorithms: (11)
| curve25519-sha256
| curve25519-sha256@libssh.org
| ecdh-sha2-nistp256
| ecdh-sha2-nistp384
| ecdh-sha2-nistp521
| sntrup761x25519-sha512@openssh.com
| diffie-hellman-group-exchange-sha256
| diffie-hellman-group16-sha512
| diffie-hellman-group18-sha512
| diffie-hellman-group14-sha256
| kex-strict-s-v00@openssh.com
| server_host_key_algorithms: (4)
| rsa-sha2-512
| rsa-sha2-256
| ecdsa-sha2-nistp256
| ssh-ed25519
| encryption_algorithms: (6)
| chacha20-poly1305@openssh.com
| aes128-ctr
| aes192-ctr
| aes256-ctr
| aes128-gcm@openssh.com
| aes256-gcm@openssh.com
| mac_algorithms: (10)
| umac-64-etm@openssh.com
| umac-128-etm@openssh.com
| hmac-sha2-256-etm@openssh.com
| hmac-sha2-512-etm@openssh.com
| hmac-sha1-etm@openssh.com
| umac-64@openssh.com
| umac-128@openssh.com
| hmac-sha2-256
| hmac-sha2-512
| hmac-sha1
| compression_algorithms: (2)
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
DOW -0.73%
Search
9:33 PM 5/23/2024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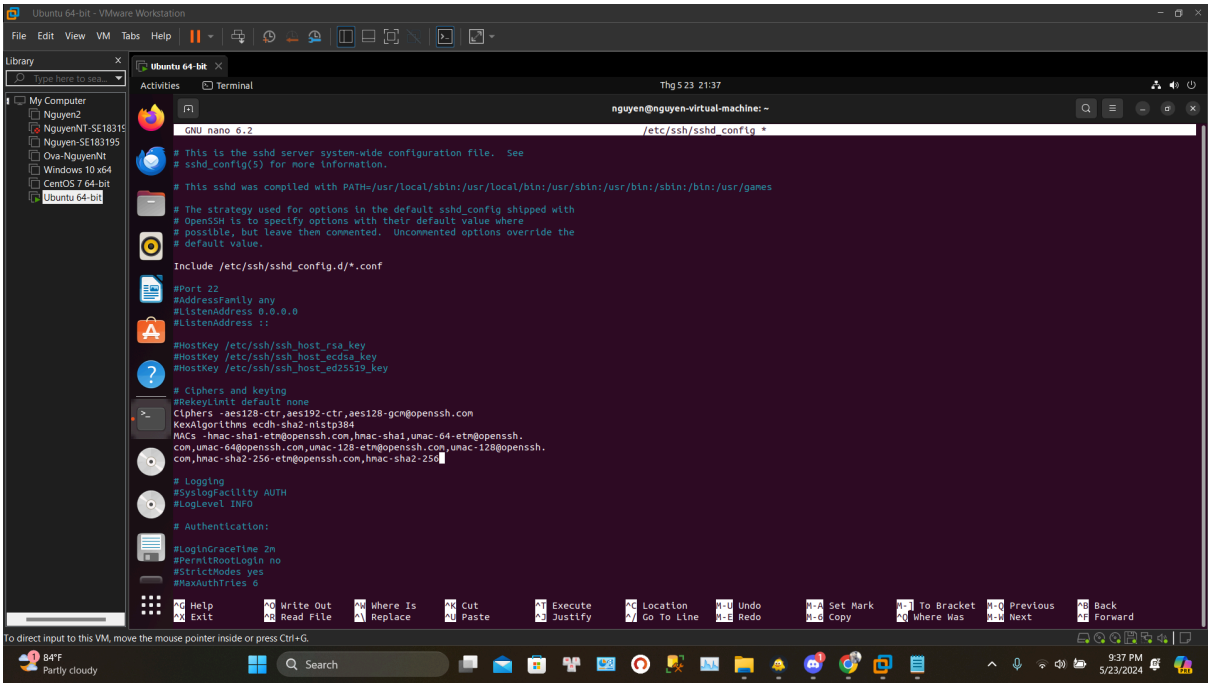
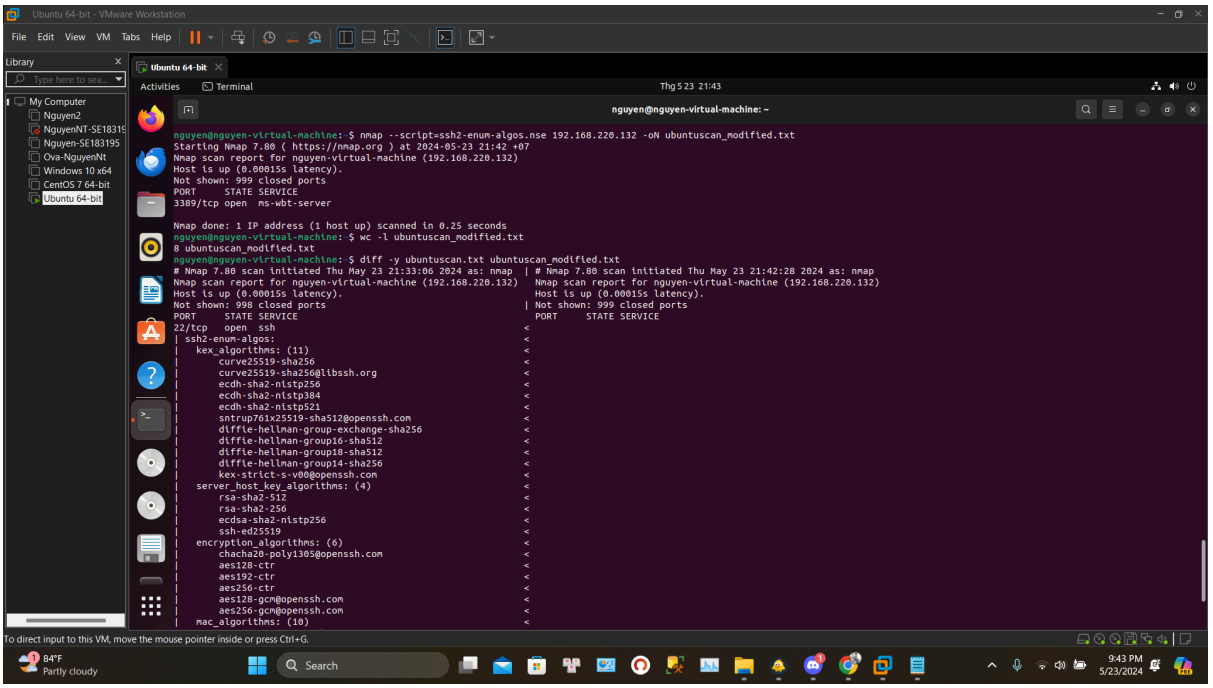
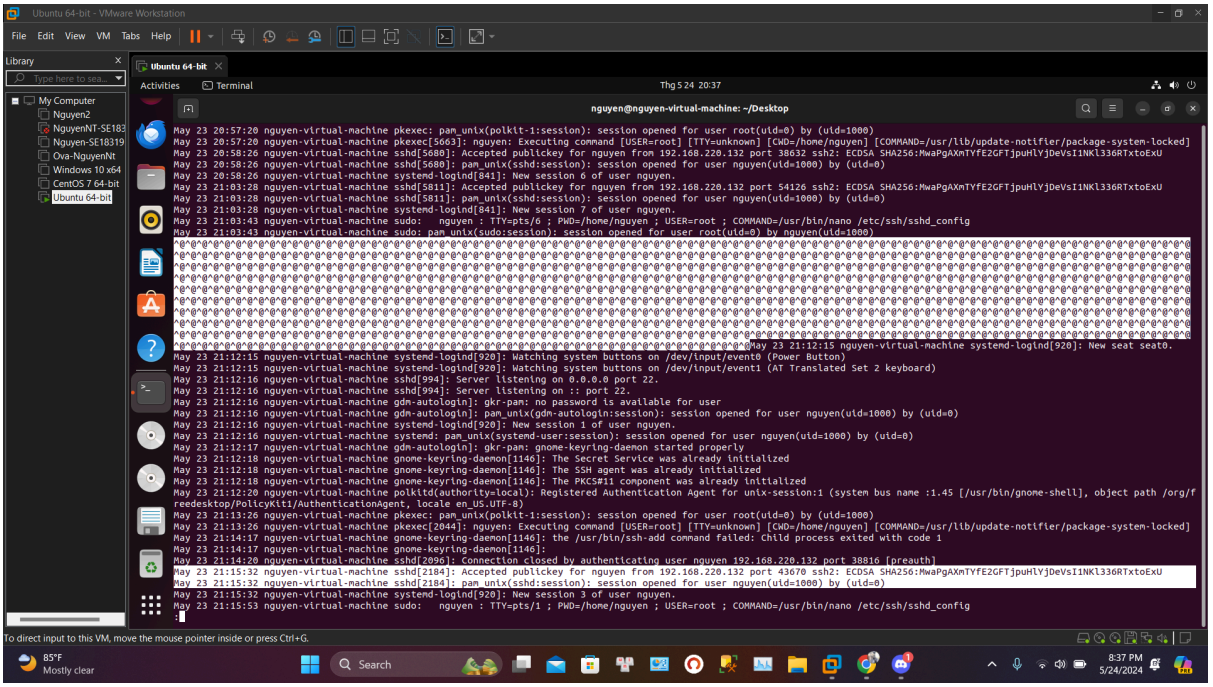
Nguyen-SE183195
Ova-NguyenNt
Windows 10 x64
CentOS 7 64-bit
Ubuntu 64-bit
Ubuntu 64-bit
Activities
Terminal
Thg 5 23 21:34
nguyen@nguyen-virtual-machine: ~
nguyen@nguyen-virtual-machine:~$ wc -l ubuntuscan.txt
48 ubuntuscan.txt
nguyen@nguyen-virtual-machine:~$
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
DAL - MIN Video highlight
Search
9:34 PM 5/23/2024





6.9 – Configuring more verbose SSH logging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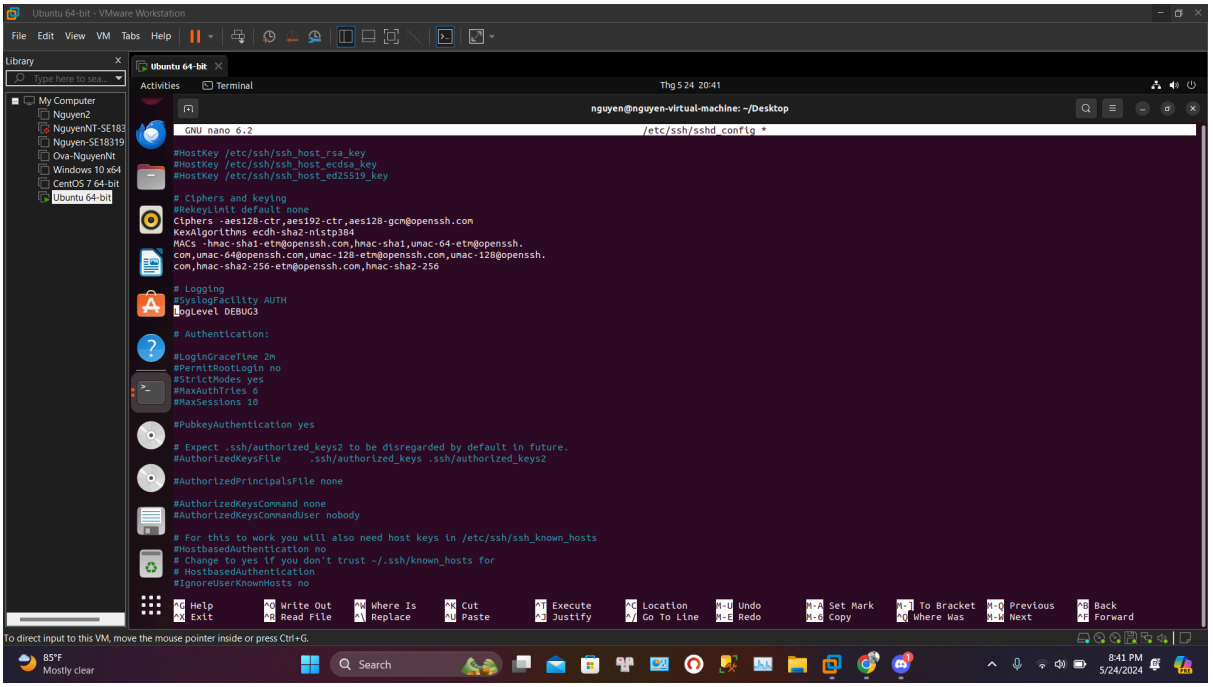
NguyenNT-SE183
Nguyen-SE18319
Ova-NguyenNt
Windows 10 x64
CentOS 7 64-bit
Ubuntu 64-bit
Ubuntu 64-bit
Activities
Terminal
Thg 5 24 20:37
nguyen@nguyen-virtual-machine: ~/Desktop
May 23 20:57:20 nguyen-virtual-machine pkexec: pam_unix(polkit-1:session): session opened for user root(uid=0) by (uid=1000)
May 23 20:57:20 nguyen-virtual-machine pkexec[5663]: nguyen: Executing command [USER=root] [TTY=unknown] [CWD=/home/nguyen] [COMMAND=/usr/lib/update-notifier/package-system-locked]
May 23 20:58:26 nguyen-virtual-machine sshd[5680]: Accepted publickey for nguyen from 192.168.220.132 port 38632 ssh2: ECDSA SHA256:MwaPgAXmTYfE2GFTjpuHlYjDeVsI1NKl336RTxtoExU
May 23 20:58:26 nguyen-virtual-machine sshd[5680]: pam_unix(sshd:session): session opened for user nguyen(uid=1000) by (uid=0)
May 23 20:58:26 nguyen-virtual-machine systemd-logind[841]: New session 6 of user nguyen.
May 23 21:03:28 nguyen-virtual-machine sshd[5811]: Accepted publickey for nguyen from 192.168.220.132 port 54126 ssh2: ECDSA SHA256:MwaPgAXmTYfE2GFTjpuHlYjDeVsI1NKl336RTxtoExU
May 23 21:03:28 nguyen-virtual-machine sshd[5811]: pam_unix(sshd:session): session opened for user nguyen(uid=1000) by (uid=0)
May 23 21:03:28 nguyen-virtual-machine systemd-logind[841]: New session 7 of user nguyen.
May 23 21:03:43 nguyen-virtual-machine sudo: nguyen : TTY=pts/6 ; PWD=/home/nguyen ; USER=root ; COMMAND=/usr/bin/nano /etc/ssh/sshd_config
May 23 21:03:43 nguyen-virtual-machine sudo: pam_unix(sudo:session): session opened for user root(uid=0) by nguyen(uid=1000)
May 23 21:12:15 nguyen-virtual-machine systemd-logind[920]: New seat seat0.
May 23 21:12:15 nguyen-virtual-machine systemd-logind[920]: Watching system buttons on /dev/input/event0 (Power Button)
May 23 21:12:15 nguyen-virtual-machine systemd-logind[920]: Watching system buttons on /dev/input/event1 (AT Translated Set 2 keyboard)
May 23 21:12:16 nguyen-virtual-machine sshd[994]: Server listening on 0.0.0.0 port 22.
May 23 21:12:16 nguyen-virtual-machine sshd[994]: Server listening on :: port 22.
May 23 21:12:16 nguyen-virtual-machine gdm-autologin]: gkr-pam: no password is available for user
May 23 21:12:16 nguyen-virtual-machine gdm-autologin]: pam_unix(gdm-autologin:session): session opened for user nguyen(uid=1000) by (uid=0)
May 23 21:12:16 nguyen-virtual-machine systemd-logind[920]: New session 1 of user nguyen.
May 23 21:12:16 nguyen-virtual-machine systemd: pam_unix(systemd-user:session): session opened for user nguyen(uid=1000) by (uid=0)
May 23 21:12:17 nguyen-virtual-machine gdm-autologin]: gkr-pam: gnome-keyring-daemon started properly
May 23 21:12:18 nguyen-virtual-machine gnome-keyring-daemon[1146]: The Secret Service was already initialized
May 23 21:12:18 nguyen-virtual-machine gnome-keyring-daemon[1146]: The SSH agent was already initialized
May 23 21:12:18 nguyen-virtual-machine gnome-keyring-daemon[1146]: The PKCS#11 component was already initialized
May 23 21:12:20 nguyen-virtual-machine polkitd(authority=local): Registered Authentication Agent for unix-session:1 (system bus name :1.45 [/usr/bin/gnome-shell], object path /org/freedesktop/PolicyKit1/AuthenticationAgent, locale en_US.UTF-8)
May 23 21:13:26 nguyen-virtual-machine pkexec: pam_unix(polkit-1:session): session opened for user root(uid=0) by (uid=1000)
May 23 21:13:26 nguyen-virtual-machine pkexec[2044]: nguyen: Executing command [USER=root] [TTY=unknown] [CWD=/home/nguyen] [COMMAND=/usr/lib/update-notifier/package-system-locked]
May 23 21:14:17 nguyen-virtual-machine gnome-keyring-daemon[1146]: the /usr/bin/ssh-add command failed: Child process exited with code 1
May 23 21:14:17 nguyen-virtual-machine gnome-keyring-daemon[1146]:
May 23 21:14:20 nguyen-virtual-machine sshd[2096]: Connection closed by authenticating user nguyen 192.168.220.132 port 38816 [preauth]
May 23 21:15:32 nguyen-virtual-machine sshd[2184]: Accepted publickey for nguyen from 192.168.220.132 port 43670 ssh2: ECDSA SHA256:MwaPgAXmTYfE2GFTjpuHlYjDeVsI1NKl336RTxtoExU
May 23 21:15:32 nguyen-virtual-machine sshd[2184]: pam_unix(sshd:session): session opened for user nguyen(uid=1000) by (uid=0)
May 23 21:15:32 nguyen-virtual-machine systemd-logind[920]: New session 3 of user nguyen.
May 23 21:15:53 nguyen-virtual-machine sudo: nguyen : TTY=pts/1 ; PWD=/home/nguyen ; USER=root ; COMMAND=/usr/bin/nano /etc/ssh/sshd_config
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
85°F
Mostly clear
Search
8:37 PM
5/24/2024


Ubuntu 64-bit - VMware Workstation
File Edit View VM Tabs Help
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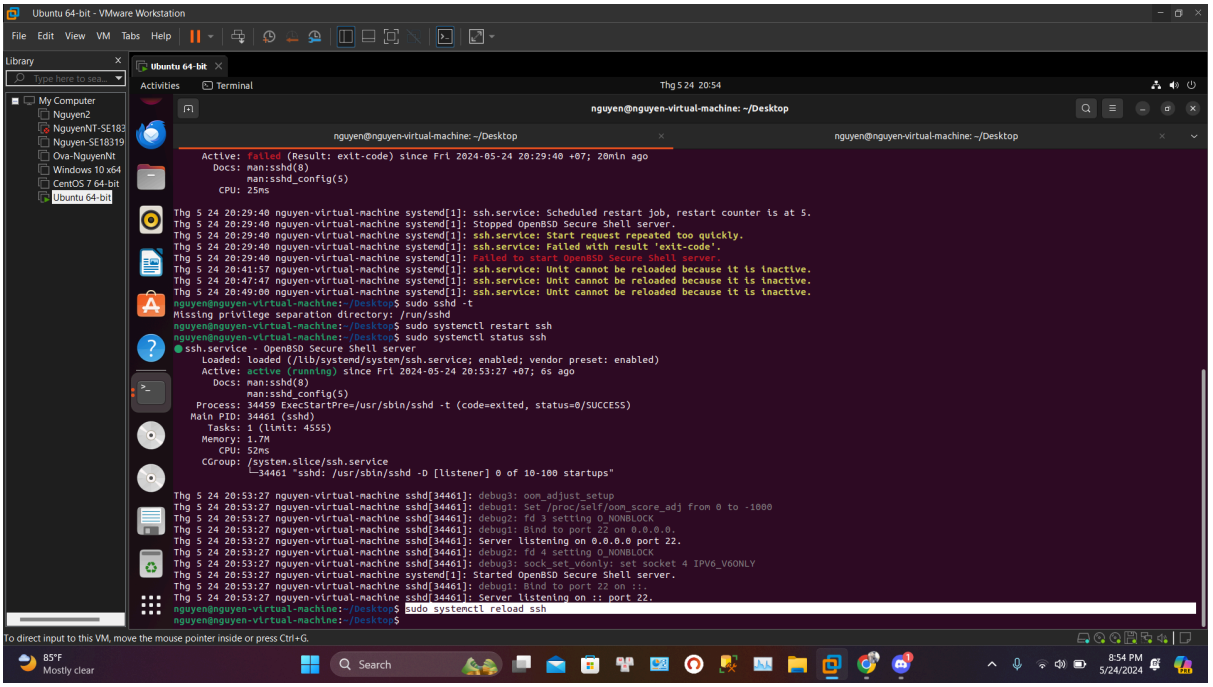
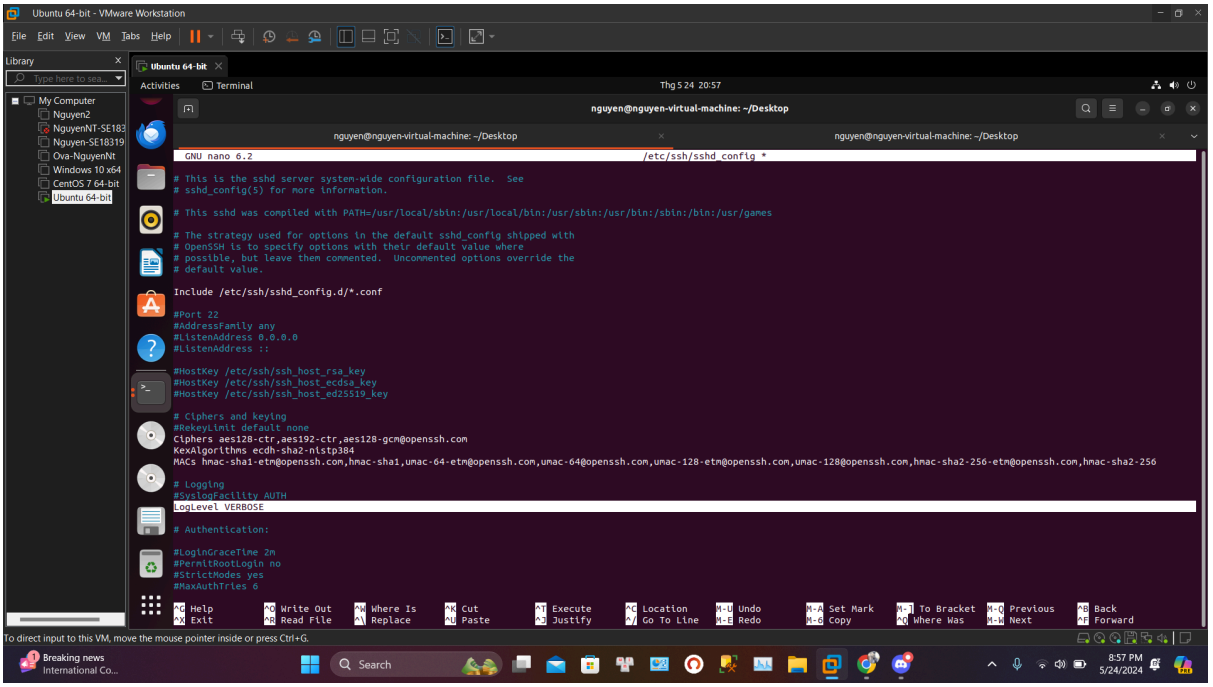
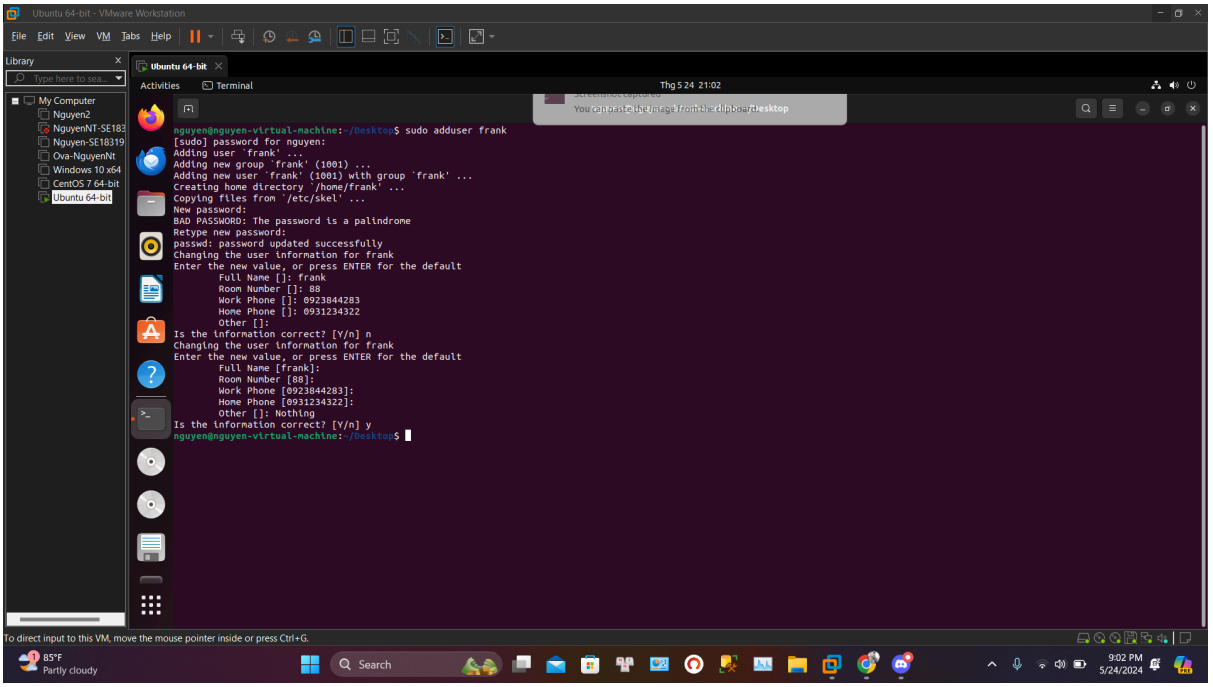
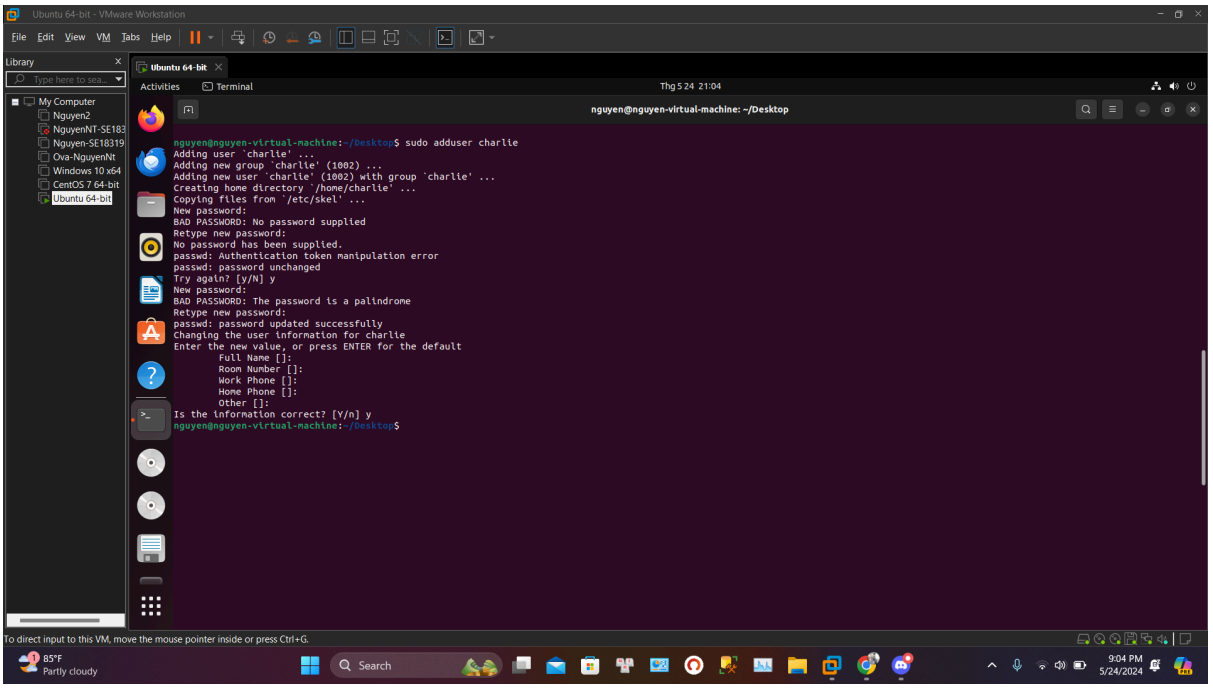
My Computer
Nguyen2
NguyenNT-SE183
Nguyen-SE18319
Ova-NguyenNt
Windows 10 x64
CentOS 7 64-bit
Ubuntu 64-bit
Ubuntu 64-bit
Activities
Terminal
Thg 5 24 20:41
nguyen@nguyen-virtual-machine: ~/Desktop
GNU nano 6.2 /etc/ssh/sshd_config *
#HostKey /etc/ssh/ssh_host_rsa_key
#HostKey /etc/ssh/ssh_host_ecdsa_key
#HostKey /etc/ssh/ssh_host_ed25519_key
Ciphers and keying
#RekeyLimit default none
Ciphers -aes128-ctr,aes192-ctr,aes128-gcm@openssh.com
KexAlgorithms ecdh-sha2-nistp384
MACs -hmac-sha1-etm@openssh.com,hmac-sha1,umac-64-etm@openssh.
com,umac-64@openssh.com,umac-128-etm@openssh.com,umac-128@openssh.
com,hmac-sha2-256-etm@openssh.com,hmac-sha2-256
Logging
#SyslogFacility AUTH
LogLevel DEBUG3
Authentication:
#LoginGraceTime 2m
#PermitRootLogin no
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10
#PubkeyAuthentication yes
Expect .ssh/authorized_keys2 to be disregarded by default in future.
#AuthorizedKeysFile .ssh/authorized_keys .ssh/authorized_keys2
#AuthorizedPrincipalsFile none
#AuthorizedKeysCommand none
#AuthorizedKeysCommandUser nobody
For this to work you will also need host keys in /etc/ssh/ssh_known_hosts
#HostbasedAuthentication no
Change to yes if you don't trust ~/.ssh/known_hosts for
HostbasedAuthentication
#IgnoreUserKnownHosts no
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
85°F
Mostly clear
Search
8:41 PM
5/24/2024





6.10 – Configuring whitelists within sshd_config


Ubuntu 64-bit - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Nguyen2
NguyenNT-SE183
Nguyen-SE18319
Ova-NguyenNt
Windows 10 x64
CentOS 7 64-bit
Ubuntu 64-bit
Ubuntu 64-bit
Activities
Terminal
Thg 5 24 21:02
You can paste the image from the clipboard into Desktop
nguyen@nguyen-virtual-machine:~/Desktop$ sudo adduser frank
[sudo] password for nguyen:
Adding user `frank' ...
Adding new group `frank' (1001) ...
Adding new user `frank' (1001) with group `frank' ...
Creating home directory `/home/frank' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: password updated successfully
Changing the user information for frank
Enter the new value, or press ENTER for the default
Full Name []: frank
Room Number []: 88
Work Phone []: 0923844283
Home Phone []: 0931234322
Other []:
Is the information correct? [Y/n] n
Changing the user information for frank
Enter the new value, or press ENTER for the default
Full Name [frank]:
Room Number [88]:
Work Phone [0923844283]:
Home Phone [0931234322]:
Other []: Nothing
Is the information correct? [Y/n] y
nguyen@nguyen-virtual-machine:~/Desktop$
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
85°F
Partly cloudy
Search
9:02 PM
5/24/2024


Ubuntu 64-bit - VMware Workstation
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Library
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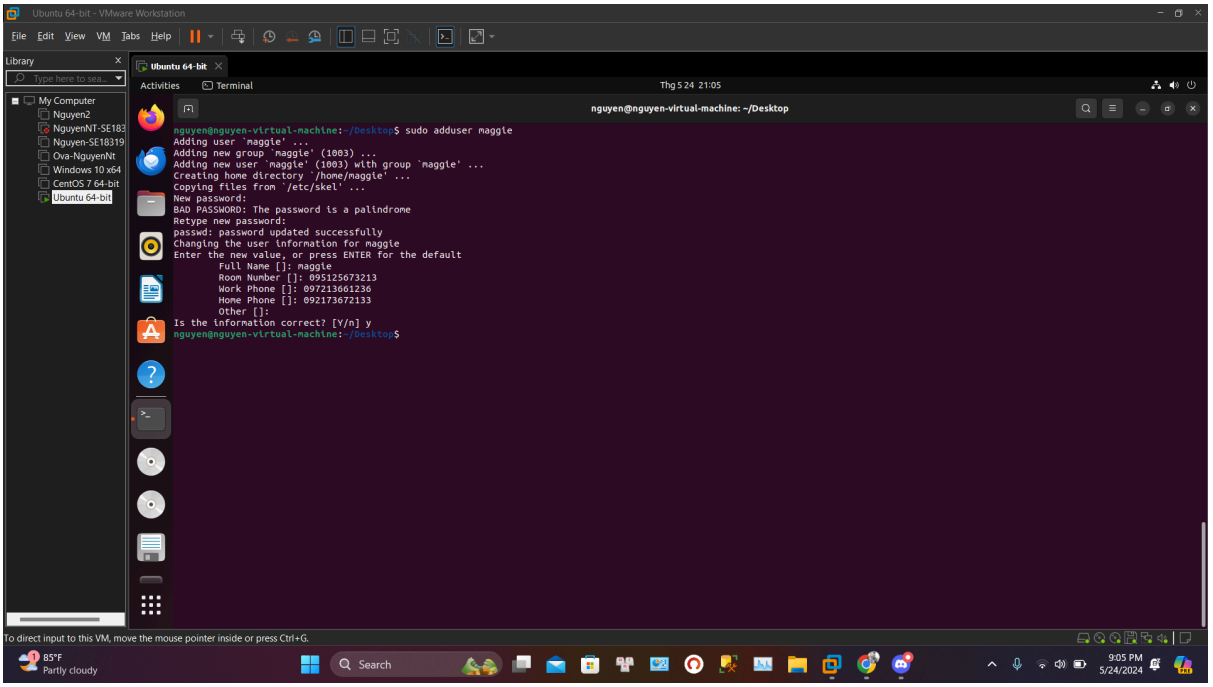
My Computer
Nguyen2
NguyenNT-SE183
Nguyen-SE18319
Ova-NguyenNt
Windows 10 x64
CentOS 7 64-bit
Ubuntu 64-bit
Ubuntu 64-bit
Activities
Terminal
Thg 5 24 21:04
nguyen@nguyen-virtual-machine: ~/Desktop
nguyen@nguyen-virtual-machine:~/Desktop$ sudo adduser charlie
Adding user `charlie' ...
Adding new group `charlie' (1002) ...
Adding new user `charlie' (1002) with group `charlie' ...
Creating home directory `/home/charlie' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: No password supplied
Retype new password:
No password has been supplied.
passwd: Authentication token manipulation error
passwd: password unchanged
Try again? [y/N] y
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: password updated successfully
Changing the user information for charlie
Enter the new value, or press ENTER for the default
Full Name []:
Room Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] y
nguyen@nguyen-virtual-machine:~/Desktop$
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
85°F
Partly cloudy
Search
9:04 PM
5/24/2024


Ubuntu 64-bit - VMware Workstation
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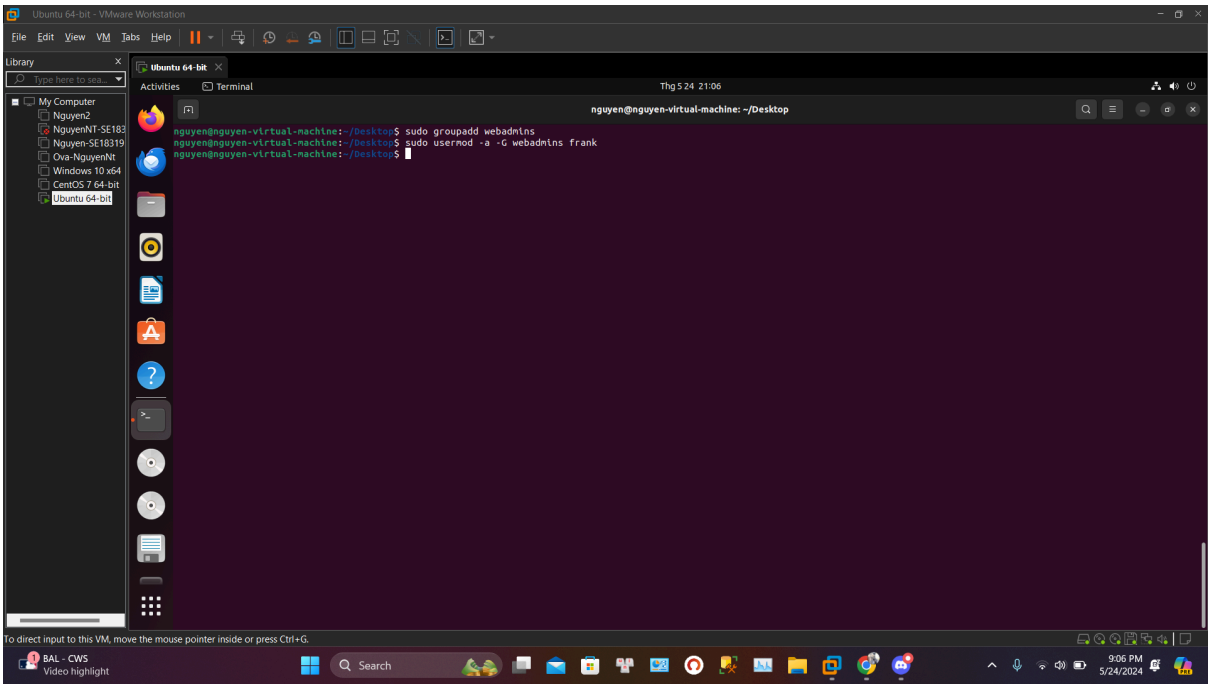
Nguyen2
NguyenNT-SE183
Nguyen-SE18319
Ova-NguyenNt
Windows 10 x64
CentOS 7 64-bit
Ubuntu 64-bit
Ubuntu 64-bit
Activities
Terminal
Thg 5 24 21:05
nguyen@nguyen-virtual-machine: ~/Desktop
nguyen@nguyen-virtual-machine:~/Desktop$ sudo adduser maggie
Adding user `maggie' ...
Adding new group `maggie' (1003) ...
Adding new user `maggie' (1003) with group `maggie' ...
Creating home directory `/home/maggie' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: password updated successfully
Changing the user information for maggie
Enter the new value, or press ENTER for the default
Full Name []: maggie
Room Number []: 095125673213
Work Phone []: 097213661236
Home Phone []: 092173672133
Other []:
Is the information correct? [Y/n] y
nguyen@nguyen-virtual-machine:~/Desktop$
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
85°F
Partly cloudy
Search
9:05 PM
5/24/2024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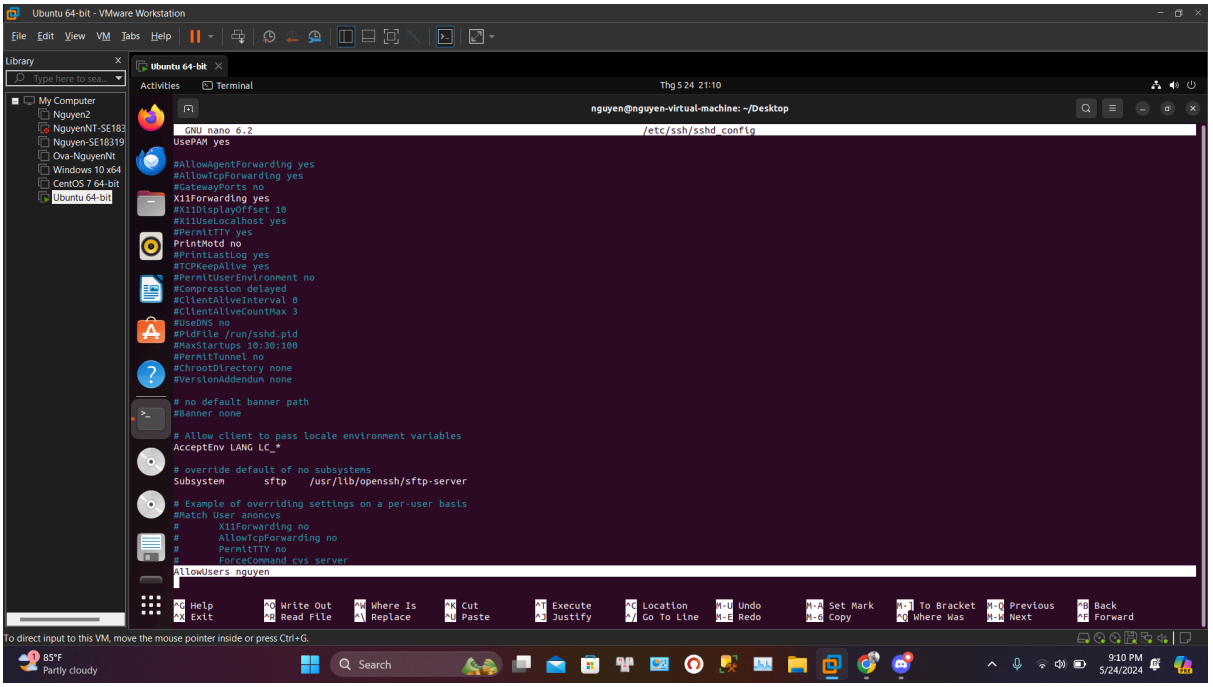
Nguyen-SE18319
Ova-NguyenNt
Windows 10 x64
CentOS 7 64-bit
Ubuntu 64-bit
Ubuntu 64-bit
Activities
Terminal
Thg 5 24 21:06
nguyen@nguyen-virtual-machine: ~/Desktop
nguyen@nguyen-virtual-machine:~/Desktop$ sudo groupadd webadmins
nguyen@nguyen-virtual-machine:~/Desktop$ sudo usermod -a -G webadmins frank
nguyen@nguyen-virtual-machine:~/Desktop$
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
BAL - CWS
Video highlight
Search
9:06 PM
5/24/2024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My Computer
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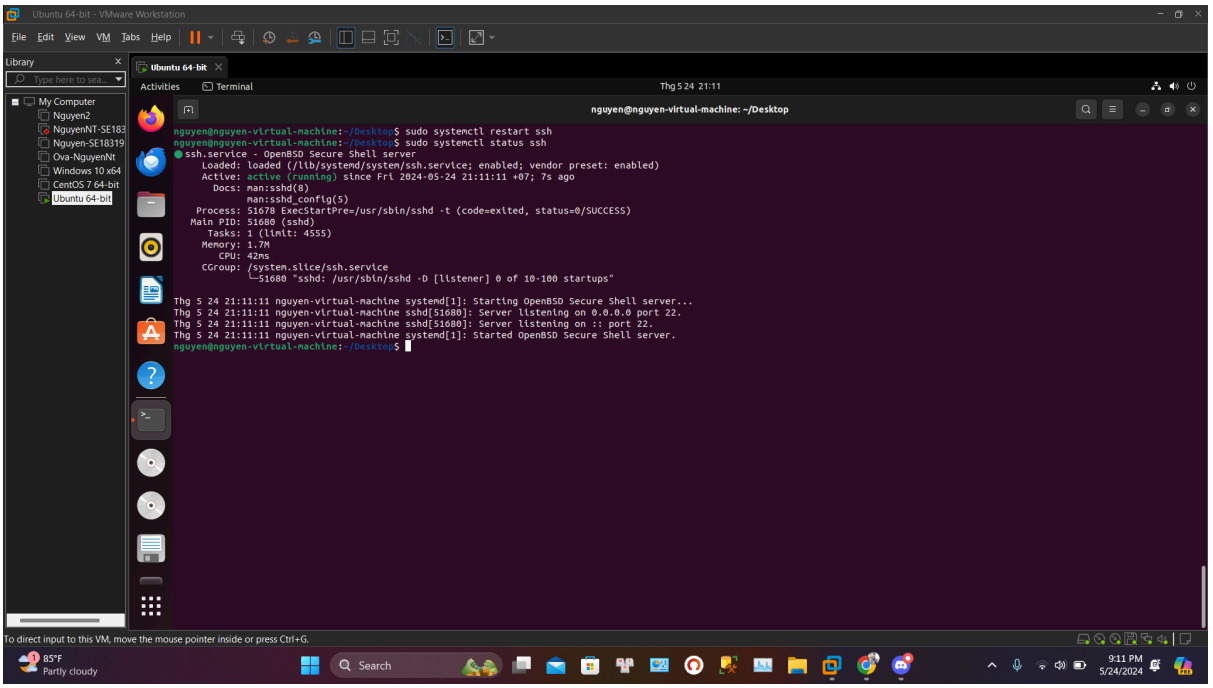
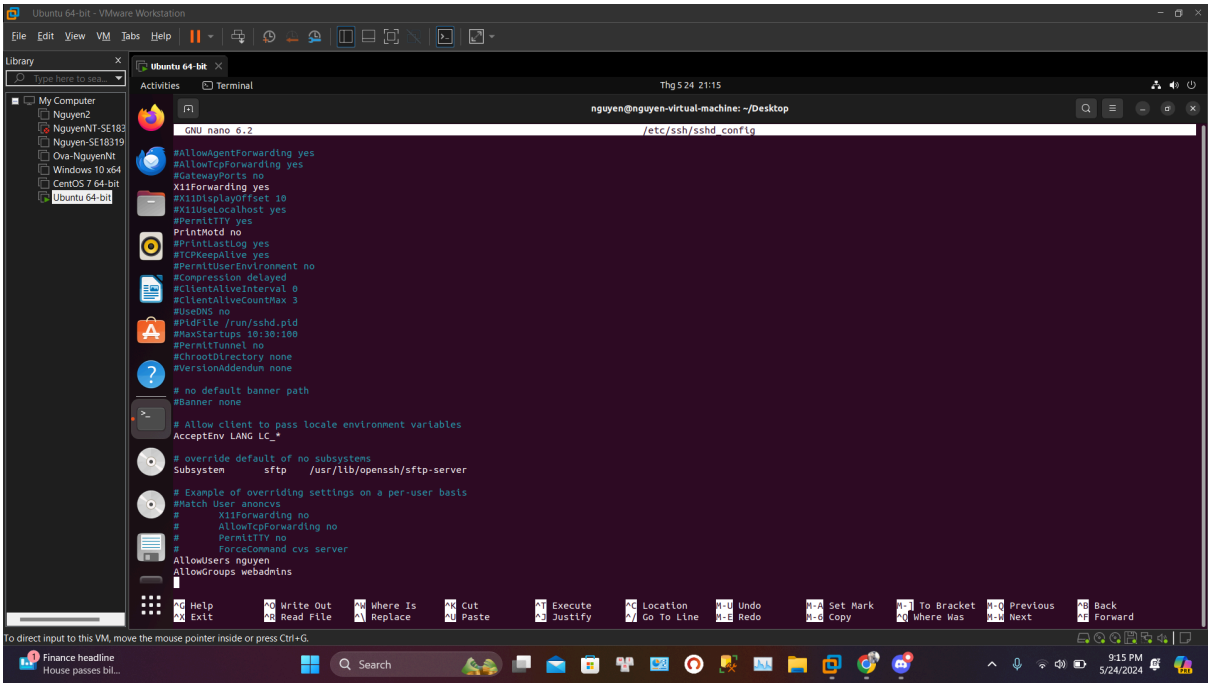
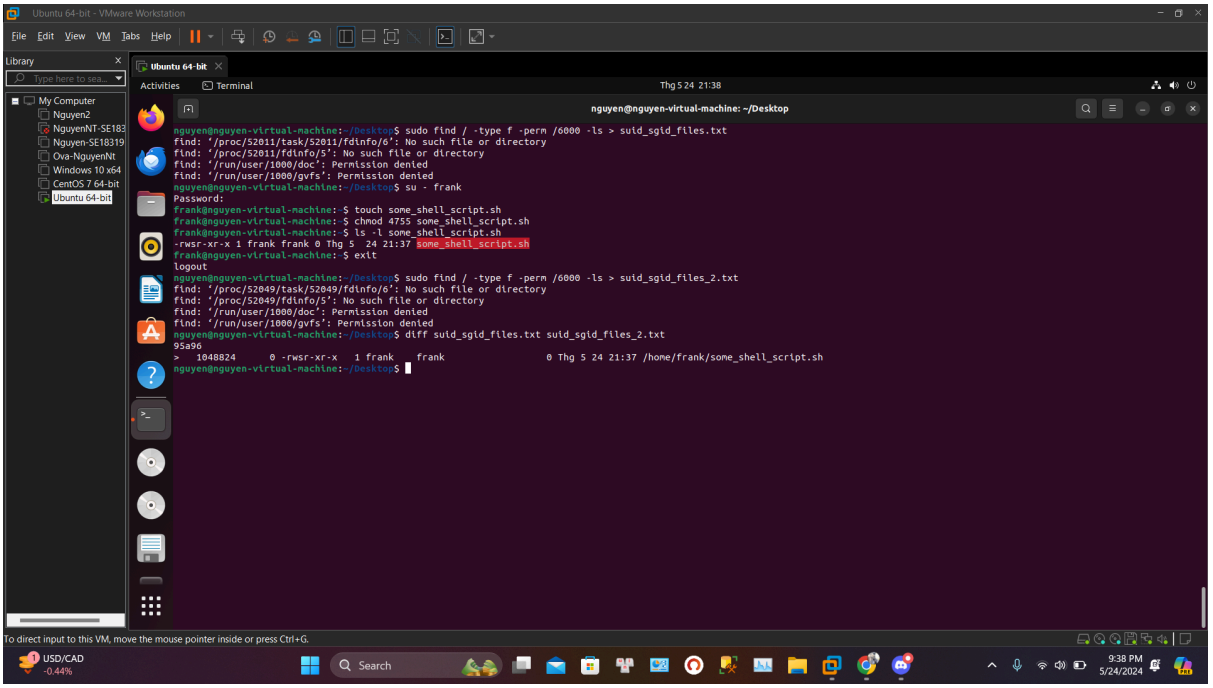
NguyenNT-SE183
Nguyen-SE18319
Ova-NguyenNt
Windows 10 x64
CentOS 7 64-bit
Ubuntu 64-bit
Activities
Terminal
Thg 5 24 21:10
nguyen@nguyen-virtual-machine: ~/Desktop
GNU nano 6.2 /etc/ssh/sshd_config
UsePAM yes
#AllowAgentForwarding yes
#AllowTcpForwarding yes
#GatewayPorts no
X11Forwarding yes
#X11DisplayOffset 10
#X11UseLocalhost yes
#PermitTTY yes
PrintMotd no
#PrintLastLog yes
#TCPKeepAlive yes
#PermitUserEnvironment no
#Compression delayed
#ClientAliveInterval 0
#ClientAliveCountMax 3
#UseDNS no
#PidFile /run/sshd.pid
#MaxStartups 10:30:100
#PermitTunnel no
#ChrootDirectory none
#VersionAddendum none
no default banner path
#Banner none
Allow client to pass locale environment variables
AcceptEnv LANG LC_*
override default of no subsystems
Subsystem sftp /usr/lib/openssh/sftp-server
Example of overriding settings on a per-user basis
#Match User anoncvs
X11Forwarding no
AllowTcpForwarding no
PermitTTY no
ForceCommand cvs server
AllowUsers nguyen
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
85°F Partly cloudy
Search
9:10 PM 5/24/2024

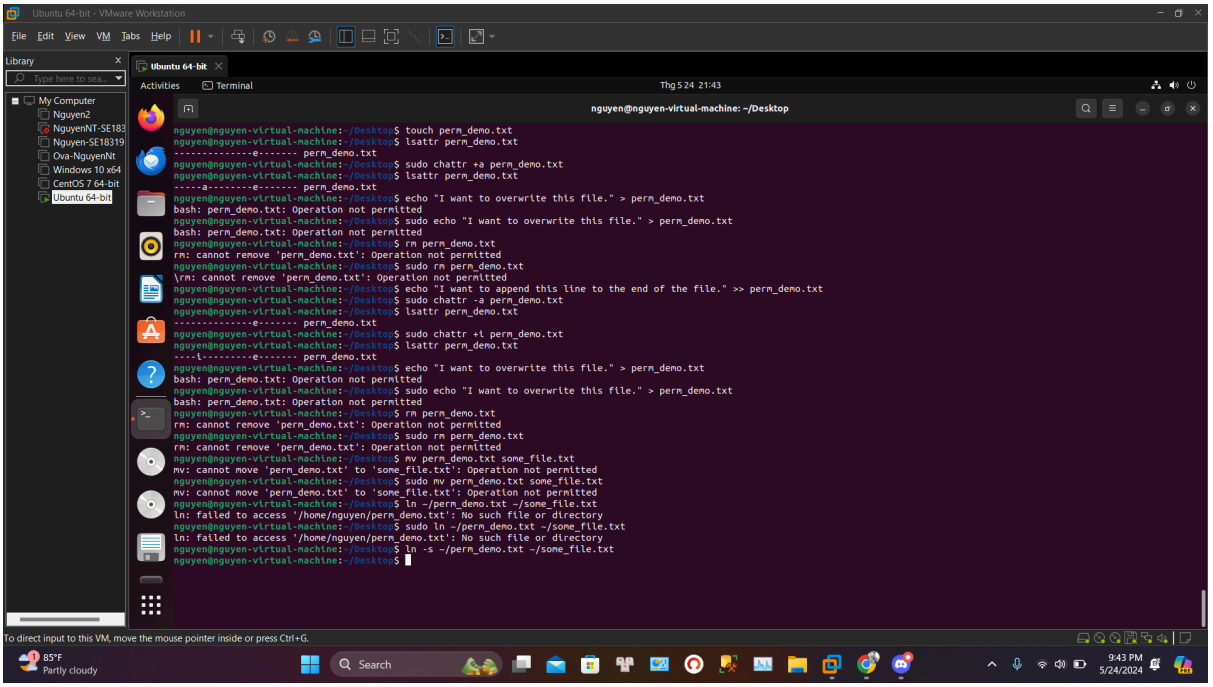

Ubuntu 64-bit - VMware Workstation
File Edit View VM Tabs Help
Library
My Computer
Nguyen2
NguyenNT-SE183
Nguyen-SE18319
Ova-NguyenNt
Windows 10 x64
CentOS 7 64-bit
Ubuntu 64-bit
Activities
Terminal
Thg 5 24 21:11
nguyen@nguyen-virtual-machine: ~/Desktop
nguyen@nguyen-virtual-machine:~/Desktop$ sudo systemctl restart ssh
nguyen@nguyen-virtual-machine:~/Desktop$ sudo systemctl status ssh
ssh.service - OpenBSD Secure Shell server
Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
Active: active (running) since Fri 2024-05-24 21:11:11 +07; 7s ago
Docs: man:sshd(8)
man:sshd_config(5)
Process: 51678 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
Main PID: 51680 (sshd)
Tasks: 1 (limit: 4555)
Memory: 1.7M
CPU: 42ms
CGroup: /system.slice/ssh.service
└─51680 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
Thg 5 24 21:11:11 nguyen-virtual-machine systemd[1]: Starting OpenBSD Secure Shell server...
Thg 5 24 21:11:11 nguyen-virtual-machine sshd[51680]: Server listening on 0.0.0.0 port 22.
Thg 5 24 21:11:11 nguyen-virtual-machine sshd[51680]: Server listening on :: port 22.
Thg 5 24 21:11:11 nguyen-virtual-machine systemd[1]: Started OpenBSD Secure Shell server.
nguyen@nguyen-virtual-machine:~/Desktop$
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
85°F Partly cloudy
Search
9:11 PM 5/24/2024



7.1 – Searching for SUID and SGID files



7.2 – Setting security-related extended file attributes


Ubuntu 64-bit - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Nguyen2
NguyenNT-SE183
Nguyen-SE18319
Ova-NguyenNt
Windows 10 x64
CentOS 7 64-bit
Ubuntu 64-bit
Ubuntu 64-bit
Activities
Terminal
Thg 5 24 21:43
nguyen@nguyen-virtual-machine: ~/Desktop
nguyen@nguyen-virtual-machine:~/Desktop$ touch perm_demo.txt
nguyen@nguyen-virtual-machine:~/Desktop$ lsattr perm_demo.txt
--------------e------- perm_demo.txt
nguyen@nguyen-virtual-machine:~/Desktop$ sudo chattr +a perm_demo.txt
nguyen@nguyen-virtual-machine:~/Desktop$ lsattr perm_demo.txt
-----a--------e------- perm_demo.txt
nguyen@nguyen-virtual-machine:~/Desktop$ echo "I want to overwrite this file." > perm_demo.txt
bash: perm_demo.txt: Operation not permitted
nguyen@nguyen-virtual-machine:~/Desktop$ sudo echo "I want to overwrite this file." > perm_demo.txt
bash: perm_demo.txt: Operation not permitted
nguyen@nguyen-virtual-machine:~/Desktop$ rm perm_demo.txt
rm: cannot remove 'perm_demo.txt': Operation not permitted
nguyen@nguyen-virtual-machine:~/Desktop$ sudo rm perm_demo.txt
\rm: cannot remove 'perm_demo.txt': Operation not permitted
nguyen@nguyen-virtual-machine:~/Desktop$ echo "I want to append this line to the end of the file." >> perm_demo.txt
nguyen@nguyen-virtual-machine:~/Desktop$ sudo chattr -a perm_demo.txt
nguyen@nguyen-virtual-machine:~/Desktop$ lsattr perm_demo.txt
--------------e------- perm_demo.txt
nguyen@nguyen-virtual-machine:~/Desktop$ sudo chattr +i perm_demo.txt
nguyen@nguyen-virtual-machine:~/Desktop$ lsattr perm_demo.txt
----i---------e------- perm_demo.txt
nguyen@nguyen-virtual-machine:~/Desktop$ echo "I want to overwrite this file." > perm_demo.txt
bash: perm_demo.txt: Operation not permitted
nguyen@nguyen-virtual-machine:~/Desktop$ sudo echo "I want to overwrite this file." > perm_demo.txt
bash: perm_demo.txt: Operation not permitted
nguyen@nguyen-virtual-machine:~/Desktop$ rm perm_demo.txt
rm: cannot remove 'perm_demo.txt': Operation not permitted
nguyen@nguyen-virtual-machine:~/Desktop$ sudo rm perm_demo.txt
rm: cannot remove 'perm_demo.txt': Operation not permitted
nguyen@nguyen-virtual-machine:~/Desktop$ mv perm_demo.txt some_file.txt
mv: cannot move 'perm_demo.txt' to 'some_file.txt': Operation not permitted
nguyen@nguyen-virtual-machine:~/Desktop$ sudo mv perm_demo.txt some_file.txt
mv: cannot move 'perm_demo.txt' to 'some_file.txt': Operation not permitted
nguyen@nguyen-virtual-machine:~/Desktop$ ln ~/perm_demo.txt ~/some_file.txt
ln: failed to access '/home/nguyen/perm_demo.txt': No such file or directory
nguyen@nguyen-virtual-machine:~/Desktop$ sudo ln ~/perm_demo.txt ~/some_file.txt
ln: failed to access '/home/nguyen/perm_demo.txt': No such file or directory
nguyen@nguyen-virtual-machine:~/Desktop$ ln -s ~/perm_demo.txt ~/some_file.txt
nguyen@nguyen-virtual-machine:~/Desktop$
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
85°F
Partly cloudy
Search
9:43 PM
5/24/2024