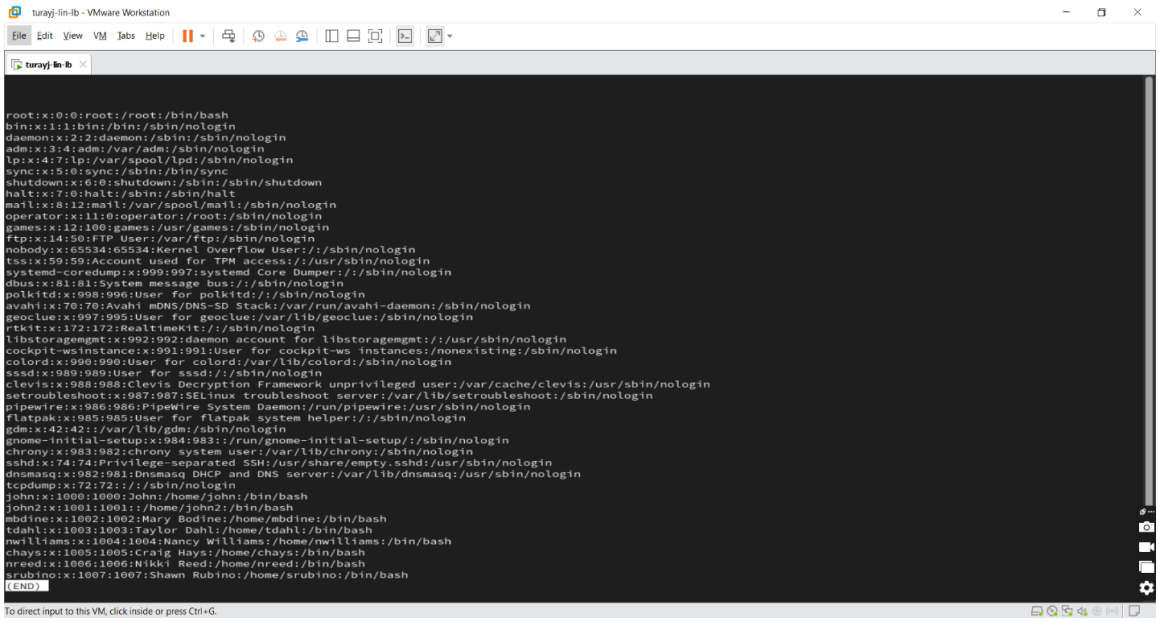
Linux Users, Groups, and Permissions Project Documentation

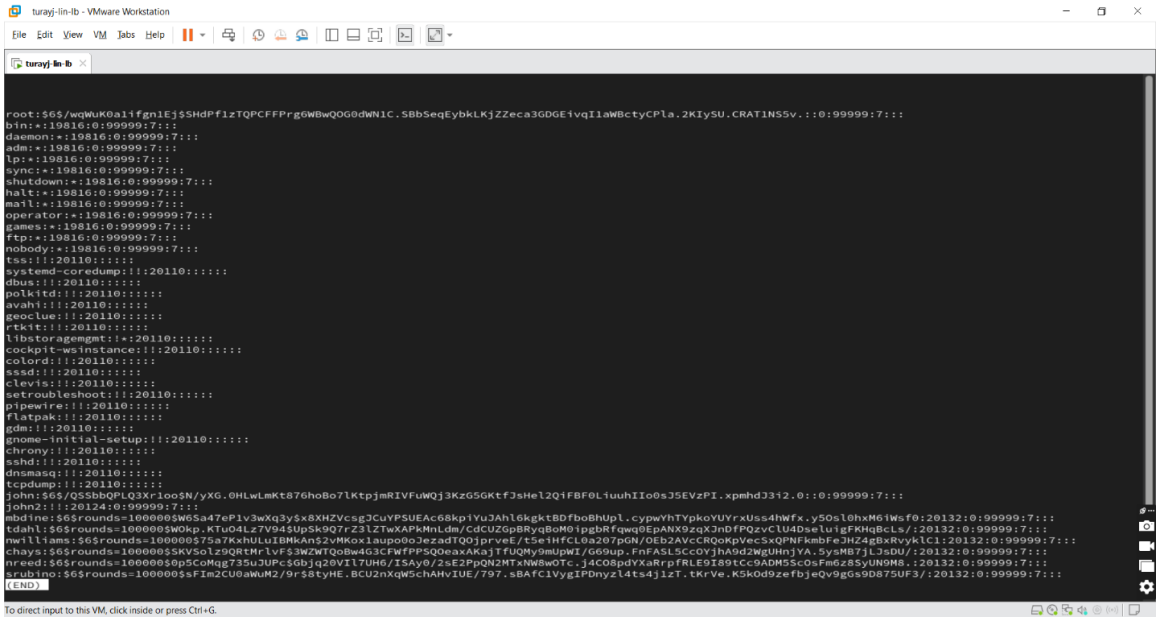
This document contains my configuration steps and verification screenshots for setting up users, groups, permissions, and directory access on a Linux system for a web development team. Each screenshot section is followed by space to write explanation/documentation of what was done.

Screenshot 1: /etc/passwd - List of User Accounts



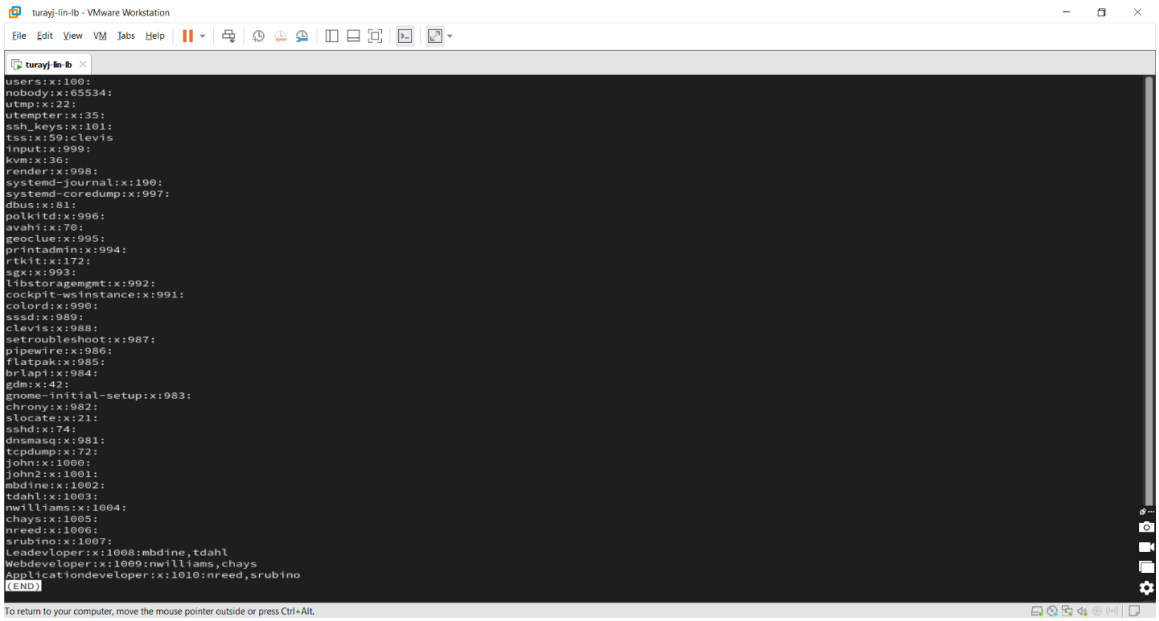
This screenshot shows the list of user accounts on the system from the /etc/passwd file. I used the command cat /etc/passwd to confirm that each team member's account was successfully created. Each entry contains the username, user ID, group ID, home directory, and default shell. This is important because it verifies that all users exist on the system and are configured with home directories and proper login shells.

Screenshot 2: /etc/shadow - Password Hashes



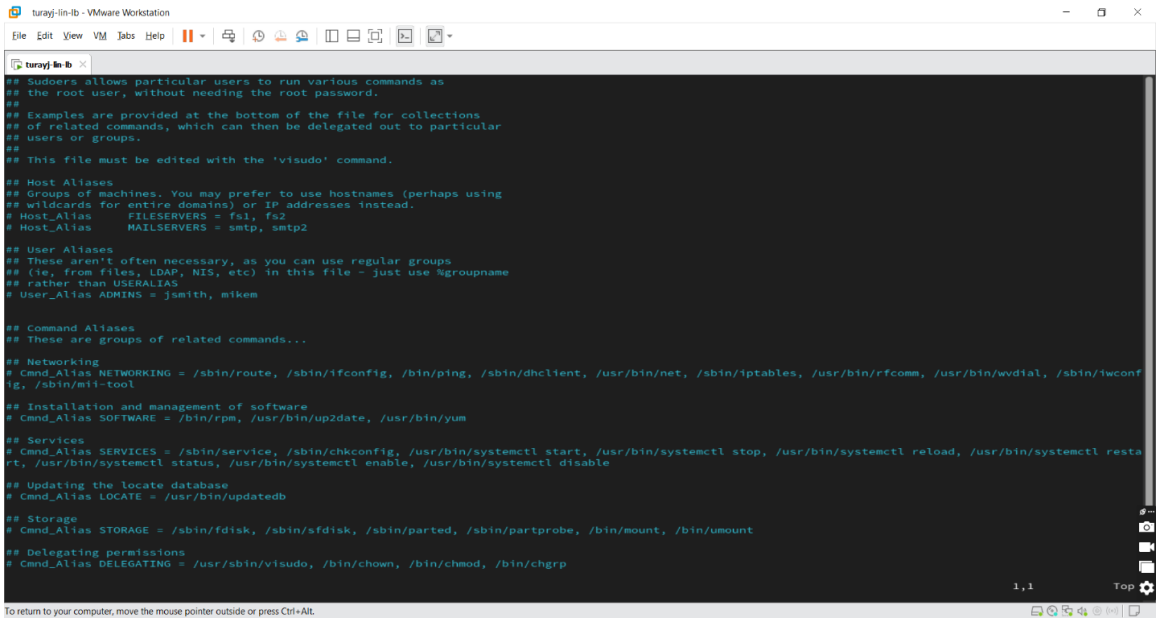
This screenshot displays the /etc/shadow file, which stores the encrypted password hashes for each user. I used sudo cat /etc/shadow to view it, since the file is protected for security reasons. This confirms that all user accounts have passwords set, and that the passwords are stored in hashed form. This is important for security because no plain-text passwords are ever stored on the system.

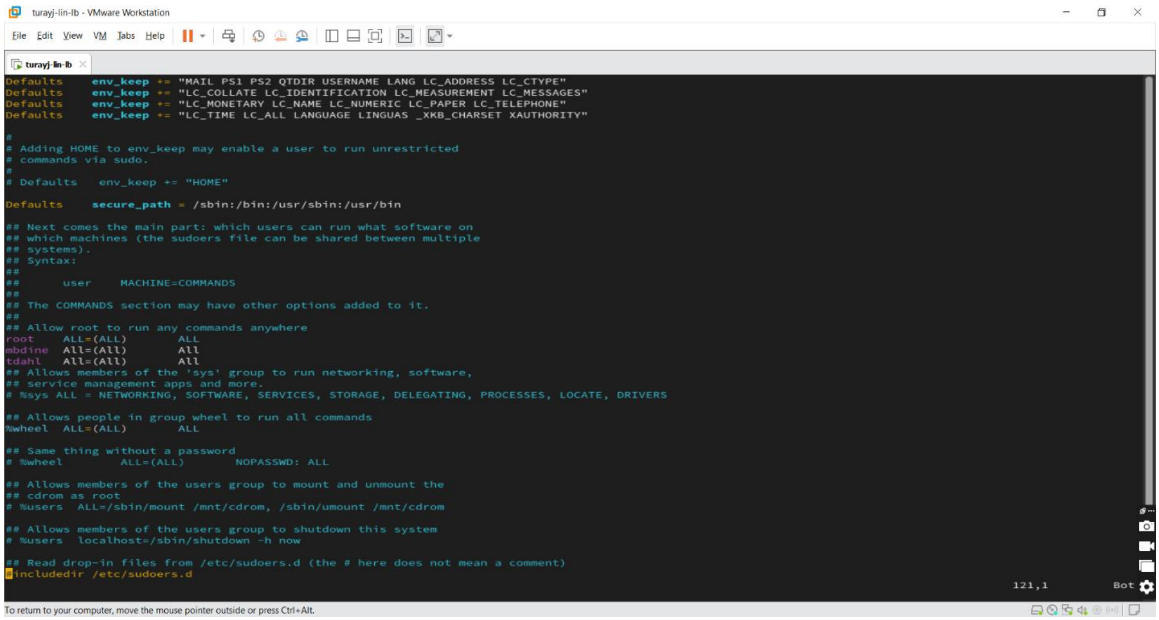
Screenshot 3: /etc/group - Group Memberships



This screenshot shows the group configuration and membership from the /etc/group file. I used the command cat /etc/group to verify that each user was assigned to the correct group based on their job role. Lead Developers were added to all groups, Web Developers were added to the webdev group, and Application Developers were added to the appdev group. Verifying this ensures that the correct access permissions will apply later when working with shared directories.

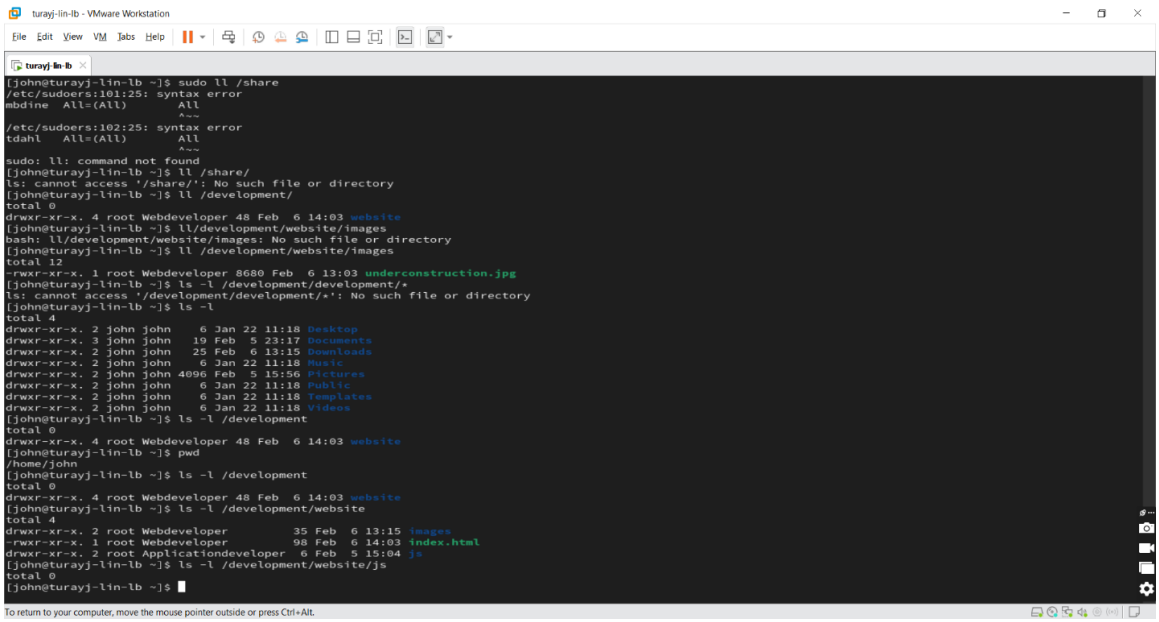
Screenshot 4: /etc/sudoers - Sudo Permissions





This screenshot shows the section of the /etc/sudoers file where I granted admin access to the Lead Developer accounts. I used the command sudo visudo, which safely opens the sudoers configuration. I added both Lead Developer accounts so they have the ability to run system-level administrative commands with sudo. This is necessary because Lead Developers may need to install software, manage services, or adjust permissions in the environment.

Screenshot 5: Permissions for /development and Subdirectories

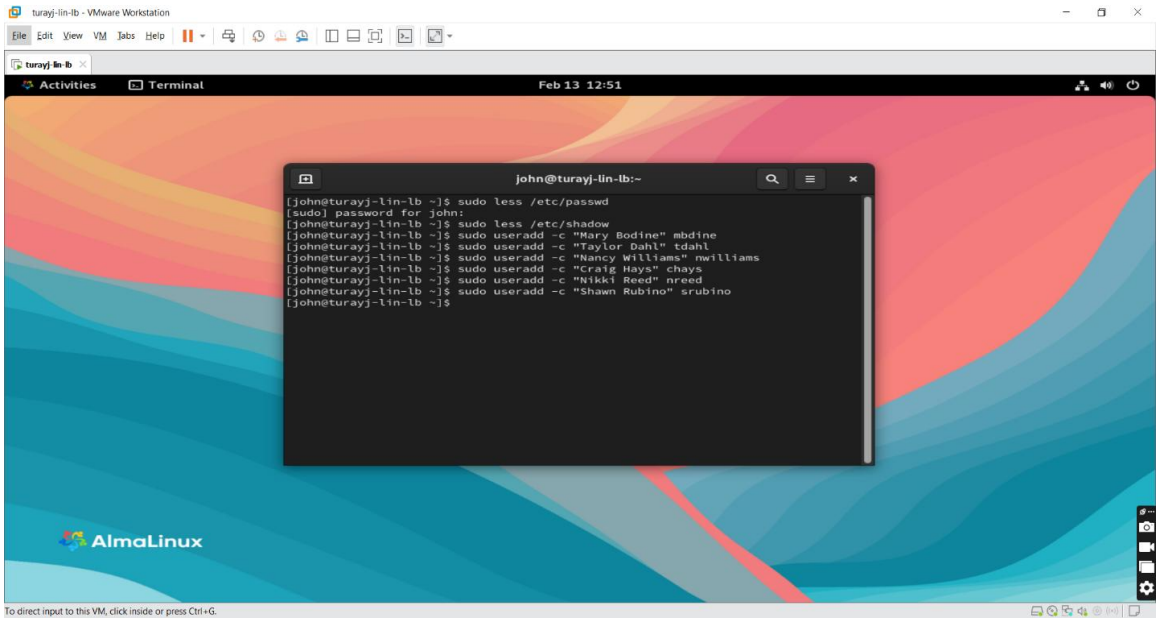


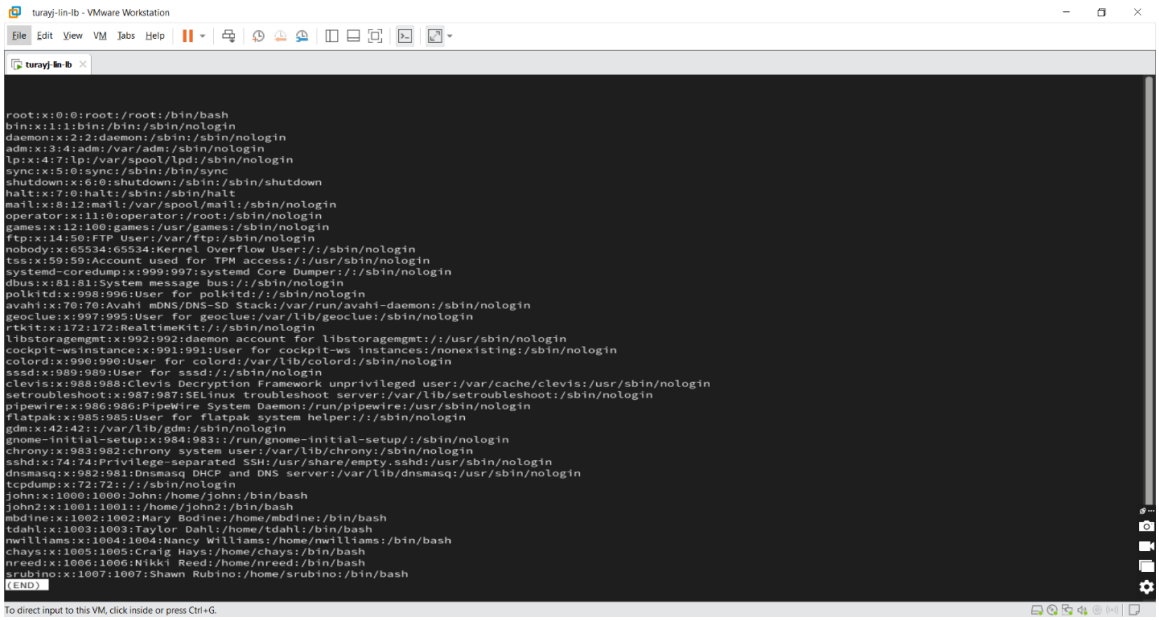
This screenshot shows the directory structure and permission settings for /development and its subfolders. I used the command ls -lR /development to display all folders and their permission values. The directory ownership was set to the appropriate groups, and permission mode 775 was applied so that group members can read, write, and execute, while others only have read/execute access. This ensures that each role has the proper access needed for their work while still maintaining security.

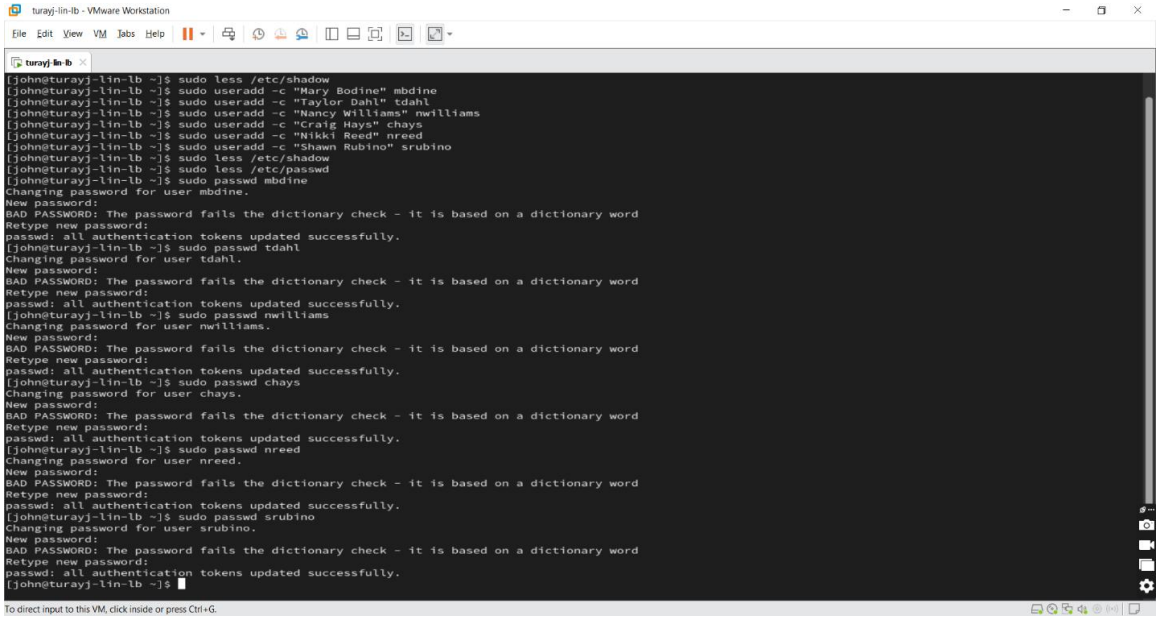
Final Notes / Reflection

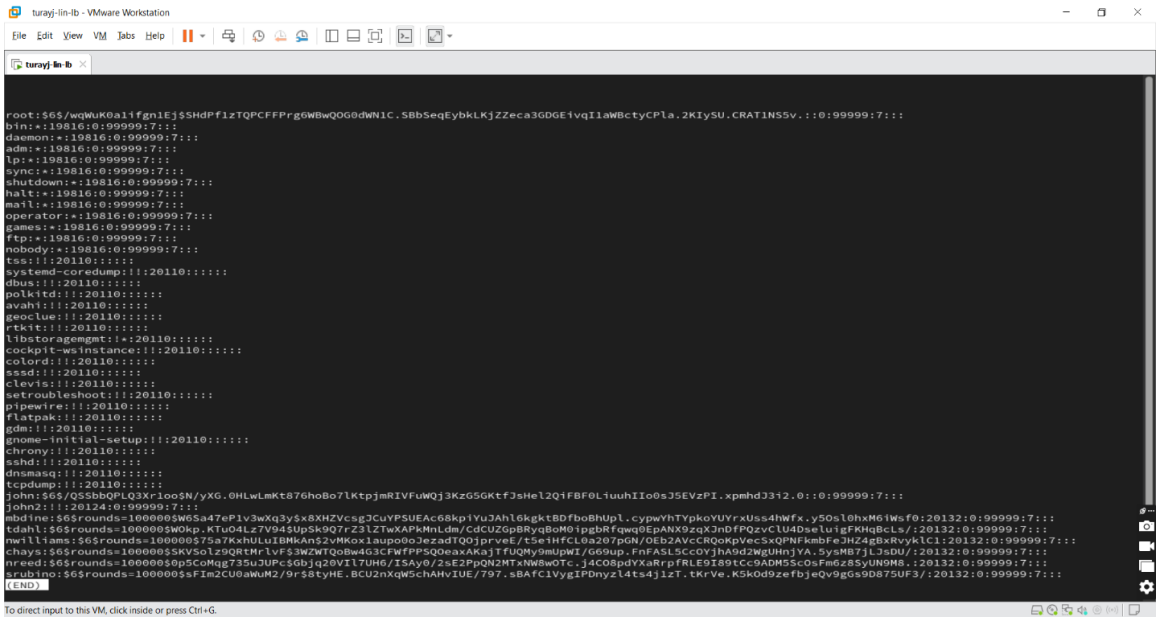
Overall, this project strengthened my understanding of Linux system administration and access control. I learned how to manage users, assign groups, and apply permissions in a professional environment. These are core skills for roles in system administration, DevOps, and cybersecurity because they directly relate to protecting data, enforcing least privilege, and supporting secure workflows across development teams.

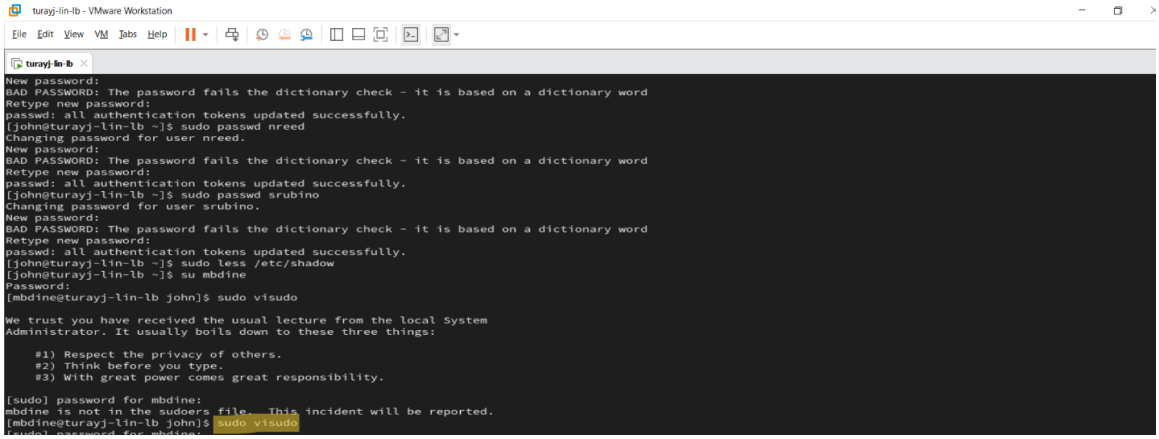
Step-by-Step Documentation:

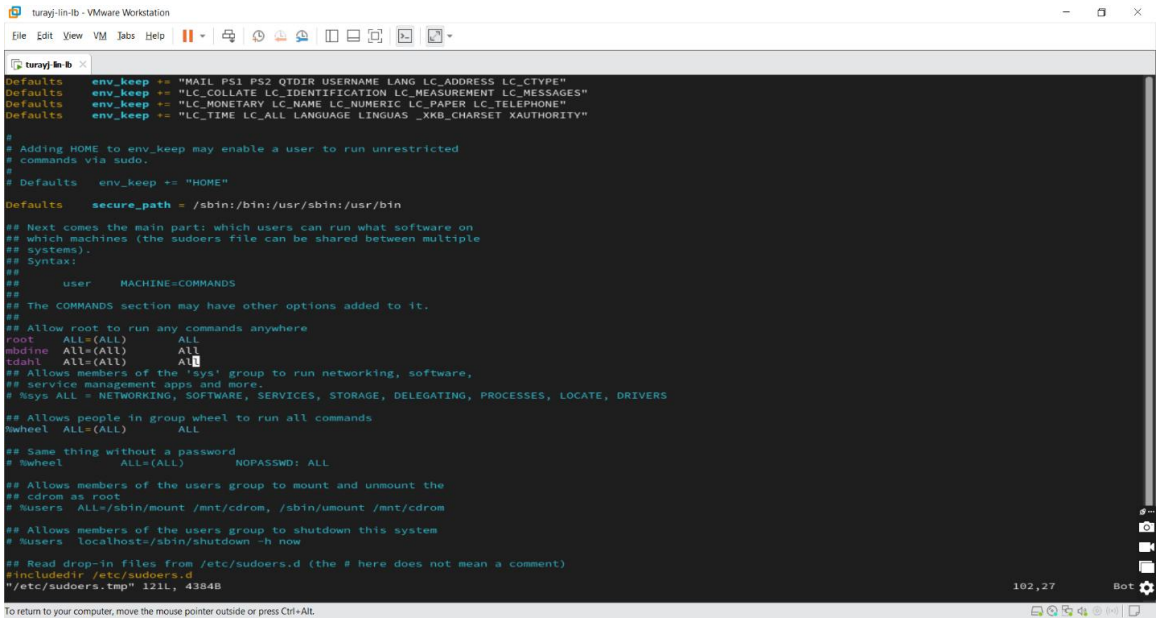


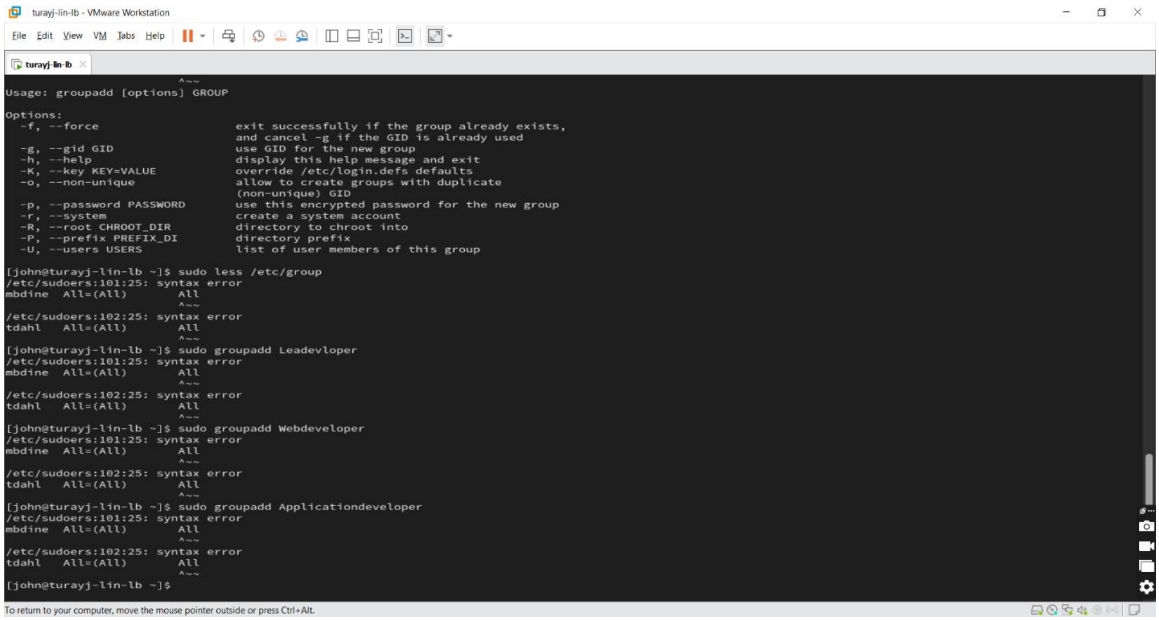

turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
turayj-lin-lb
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:65534:65534:Kernel Overflow User:/:/sbin/nologin
tss:x:59:59:Account used for TPM access:/:/usr/sbin/nologin
systemd-coredump:x:999:997:systemd Core Dumper:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
polkitd:x:998:996:User for polkitd:/:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
geoclue:x:997:995:User for geoclue:/var/lib/geoclue:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/:/sbin/nologin
libstoragemgmt:x:992:992:daemon account for libstoragemgmt:/:/usr/sbin/nologin
cockpit-wsinstance:x:991:991:User for cockpit-ws instances:/nonexisting:/sbin/nologin
colord:x:990:990:User for colord:/var/lib/colord:/sbin/nologin
sssd:x:989:989:User for sssd:/:/sbin/nologin
clevis:x:988:988:Clevis Decryption Framework unprivileged user:/var/cache/clevis:/usr/sbin/nologin
setroubleshoot:x:987:987:SELinux troubleshoot server:/var/lib/setroubleshoot:/sbin/nologin
pipewire:x:986:986:PipeWire System Daemon:/run/pipewire:/usr/sbin/nologin
flatpak:x:985:985:User for flatpak system helper:/:/sbin/nologin
gdm:x:42:42::/var/lib/gdm:/sbin/nologin
gnome-initial-setup:x:984:983::/run/gnome-initial-setup/:/sbin/nologin
chrony:x:983:982:chrony system user:/var/lib/chrony:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/usr/sbin/nologin
dnsmasq:x:982:981:Dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/usr/sbin/nologin
tcpdump:x:72:72::/:/sbin/nologin
john:x:1000:1000:John:/home/john:/bin/bash
john2:x:1001:1001::/home/john2:/bin/bash
mbdine:x:1002:1002:Mary Bodine:/home/mbdine:/bin/bash
tdahl:x:1003:1003:Taylor Dahl:/home/tdahl:/bin/bash
nwilliams:x:1004:1004:Nancy Williams:/home/nwilliams:/bin/bash
chays:x:1005:1005:Craig Hays:/home/chays:/bin/bash
nreed:x:1006:1006:Nikki Reed:/home/nreed:/bin/bash
srubino:x:1007:1007:Shawn Rubino:/home/srubino:/bin/bash
(END)
To direct input to this VM, click inside or press Ctrl+G.

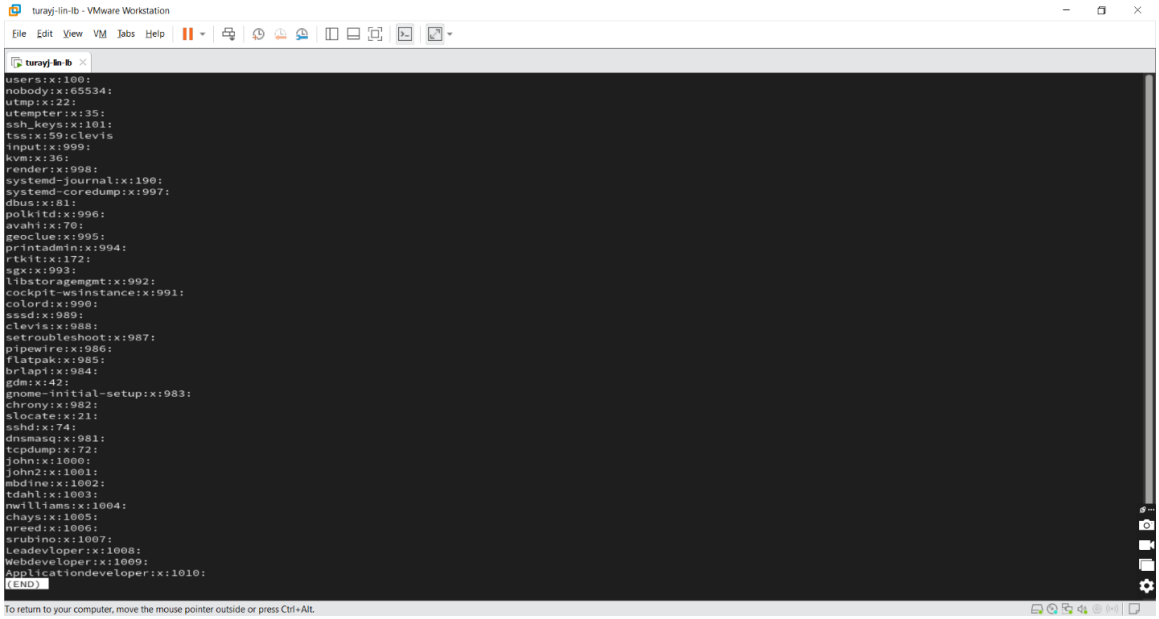

turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
turayj-lin-lb
[john@turayj-lin-lb ~]$ sudo less /etc/shadow
[john@turayj-lin-lb ~]$ sudo useradd -c "Mary Bodine" mbdine
[john@turayj-lin-lb ~]$ sudo useradd -c "Taylor Dahl" tdahl
[john@turayj-lin-lb ~]$ sudo useradd -c "Nancy Williams" nwilliams
[john@turayj-lin-lb ~]$ sudo useradd -c "Craig Hays" chays
[john@turayj-lin-lb ~]$ sudo useradd -c "Nikki Reed" nreed
[john@turayj-lin-lb ~]$ sudo useradd -c "Shawn Rubino" srubino
[john@turayj-lin-lb ~]$ sudo less /etc/shadow
[john@turayj-lin-lb ~]$ sudo less /etc/passwd
[john@turayj-lin-lb ~]$ sudo passwd mbdine
Changing password for user mbdine.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[john@turayj-lin-lb ~]$ sudo passwd tdahl
Changing password for user tdahl.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[john@turayj-lin-lb ~]$ sudo passwd nwilliams
Changing password for user nwilliams.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[john@turayj-lin-lb ~]$ sudo passwd chays
Changing password for user chays.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[john@turayj-lin-lb ~]$ sudo passwd nreed
Changing password for user nreed.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[john@turayj-lin-lb ~]$ sudo passwd srubino
Changing password for user srubino.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[john@turayj-lin-lb ~]$
To direct input to this VM, click inside or press Ctrl+G.

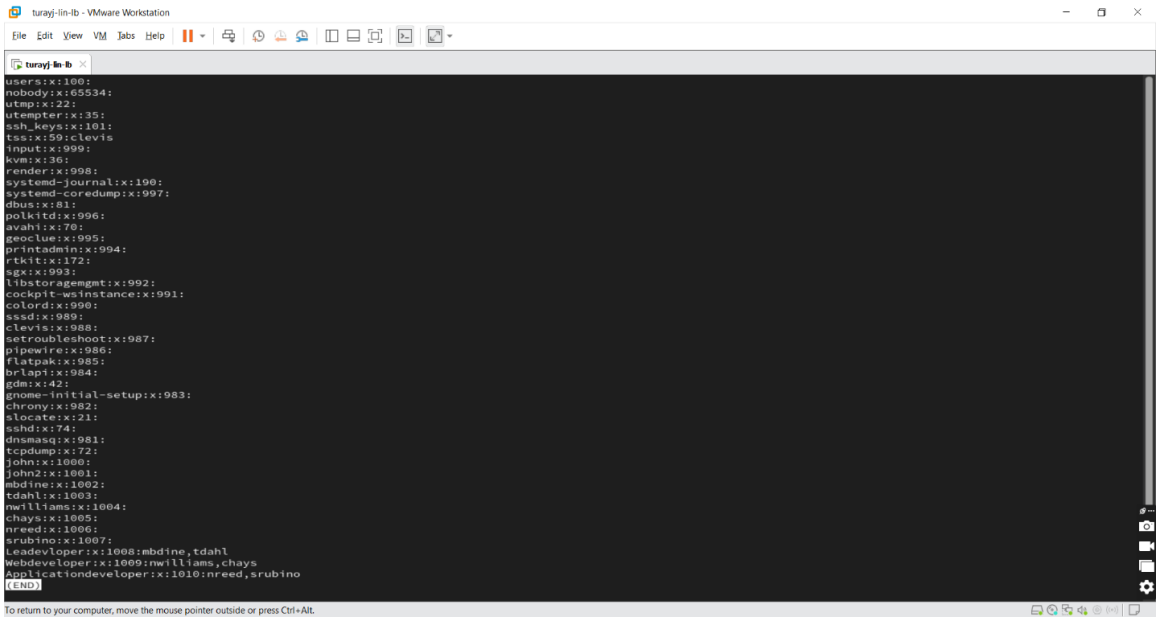

turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
turayj-lin-lb
root:6/wqWuK0a1ifgn1Ej$SHdPf1zTQPCFFPrg6WBwQOG0dWN1C.SBbSeqEybkLKjZZeca3GDGEivqI1aWBctyCPla.2KIySU.CRAT1NS5v.::0:99999:7:::
bin:*:19816:0:99999:7:::
daemon:*:19816:0:99999:7:::
adm:*:19816:0:99999:7:::
lp:*:19816:0:99999:7:::
sync:*:19816:0:99999:7:::
shutdown:*:19816:0:99999:7:::
halt:*:19816:0:99999:7:::
mail:*:19816:0:99999:7:::
operator:*:19816:0:99999:7:::
games:*:19816:0:99999:7:::
ftp:*:19816:0:99999:7:::
nobody:*:19816:0:99999:7:::
tss:!!:20110::::::
systemd-coredump:!!:20110::::::
dbus:!!:20110::::::
polkitd:!!:20110::::::
avahi:!!:20110::::::
geoclue:!!:20110::::::
rtkit:!!:20110::::::
libstoragemgmt:!*:20110::::::
cockpit-wsinstance:!!:20110::::::
colord:!!:20110::::::
sssd:!!:20110::::::
clevis:!!:20110::::::
setroubleshoot:!!:20110::::::
pipewire:!!:20110::::::
flatpak:!!:20110::::::
gdm:!!:20110::::::
gnome-initial-setup:!!:20110::::::
chrony:!!:20110::::::
sshd:!!:20110::::::
dnsmasq:!!:20110::::::
tcpdump:!!:20110::::::
john:6/QSSbbQPLQ3Xrioo$N/yXG.0HLwLmKt876hoBo7lKtpjmRIVFuWQj3KzG5GKtfJsHel2QiFBF0LiuuhIIo0sJ5EVzPI.xpmhdJ3i2.0::0:99999:7:::
john2:!!:20124:0:99999:7:::
mbdine:6rounds=100000$W6Sa47eP1v3wXq3y$x8XHZVcsgJCuYPSUEAc68kpiYuJAhl6kgktBDfboBhUpl.cypwYhTYpkoYUYrxUss4hWfx.y5Osl0hxM6iWsf0:20132:0:99999:7:::
tdahl:6rounds=100000$WOkp.KTuO4Lz7V94$UpSk9Q7rZ3lZTwXAPkMnLdm/CdCUZGpBRyqBoM0ipgbRfqwq0EpANX9zqXJnDfPQzvClU4DseluigFKHqBcLs/:20132:0:99999:7:::
nwilliams:6rounds=100000$75a7KxhULuIBMkAn$2vMKox1aupo0oJezadTQO3prveE/t5e1HfCL0a207pGN/OEb2AVcCRQoKpVecSxQPNFkmbFeJHZ4gBxRvyklC1:20132:0:99999:7:::
chays:6rounds=100000$SKVSolz9QRtMrlvF$3WZWTQoBw4G3CFWfPPSQOeaxAKajTFUQMy9mUpWI/G69up.FnFASL5CcOYjhA9d2WgUHnjYA.5ysMB7jL3sDU/:20132:0:99999:7:::
nreed:6rounds=100000$0p5CoMqg735uJUPc$Gbjq20VIl7UH6/ISAy0/2sE2PpQN2MTxNW8wOTc.j4CO8pdYXaRrpfRLE9I89tCc9ADM5ScOsFm6z8SyUN9M8.:20132:0:99999:7:::
srubino:6rounds=100000$sFIm2CU0aWuM2/9r$8tyHE.BCU2nXqW5chAHvIUE/797.sBAfC1VygIPDnyzl4ts4j1zT.tKrVe.K5kOd9zefbjeQv9gGs9D875UF3/:20132:0:99999:7:::
(END)
To direct input to this VM, click inside or press Ctrl+G.

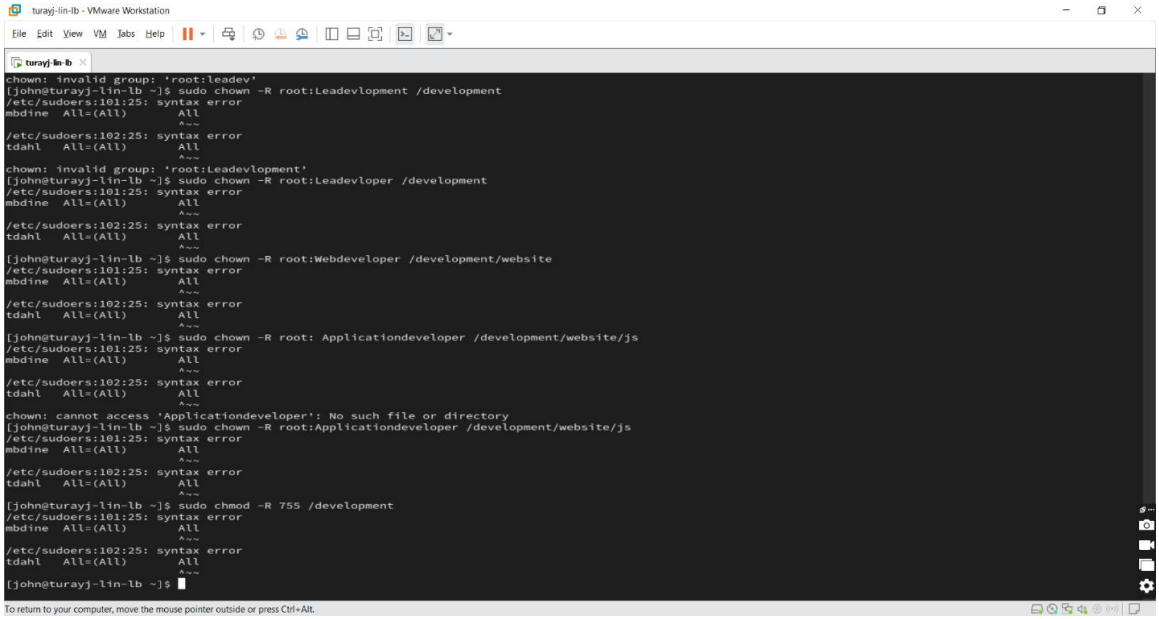

turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
turayj-lin-lb
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[john@turayj-lin-lb ~]$ sudo passwd nreed
Changing password for user nreed.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[john@turayj-lin-lb ~]$ sudo passwd srubino
Changing password for user srubino.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[john@turayj-lin-lb ~]$ sudo less /etc/shadow
[john@turayj-lin-lb ~]$ su mbdine
Password:
[mbdine@turayj-lin-lb john]$ sudo visudo
We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:
#1) Respect the privacy of others.
#2) Think before you type.
#3) With great power comes great responsibility.
[sudo] password for mbdine:
mbdine is not in the sudoers file. This incident will be reported.
[mbdine@turayj-lin-lb john]$ sudo visudo


turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
turayj-lin-lb
Defaults env_keep += "MAIL PS1 PS2 QTDIR USERNAME LANG LC_ADDRESS LC_CTYPE"
Defaults env_keep += "LC_COLLATE LC_IDENTIFICATION LC_MEASUREMENT LC_MESSAGES"
Defaults env_keep += "LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER LC_TELEPHONE"
Defaults env_keep += "LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY"
#
Adding HOME to env_keep may enable a user to run unrestricted
commands via sudo.
#
Defaults env_keep += "HOME"
Defaults secure_path = /sbin:/bin:/usr/sbin:/usr/bin
Next comes the main part: which users can run what software on
which machines (the sudoers file can be shared between multiple
systems).
Syntax:
##
user MACHINE=COMMANDS
##
The COMMANDS section may have other options added to it.
##
Allow root to run any commands anywhere
root ALL=(ALL) ALL
mbdine ALL=(ALL) All
tdahl ALL=(ALL) All
Allows members of the 'sys' group to run networking, software,
service management apps and more.
%sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOCATE, DRIVERS
Allows people in group wheel to run all commands
%wheel ALL=(ALL) ALL
Same thing without a password
%wheel ALL=(ALL) NOPASSWD: ALL
Allows members of the users group to mount and unmount the
cdrom as root
%users ALL=/sbin/mount /mnt/cdrom, /sbin/umount /mnt/cdrom
Allows members of the users group to shutdown this system
%users localhost=/sbin/shutdown -h now
Read drop-in files from /etc/sudoers.d (the # here does not mean a comment)
#includedir /etc/sudoers.d
"/etc/sudoers.tmp" 121L, 4384B 102,27 Bot
To return to your computer, move the mouse pointer outside or press Ctrl+Alt.


turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
turayj-lin-lb
^~~
Usage: groupadd [options] GROUP
Options:
-f, --force exit successfully if the group already exists,
and cancel -g if the GID is already used
-g, --gid GID use GID for the new group
-h, --help display this help message and exit
-K, --key KEY=VALUE override /etc/login.defs defaults
-o, --non-unique allow to create groups with duplicate
(non-unique) GID
-p, --password PASSWORD use this encrypted password for the new group
-r, --system create a system account
-R, --root CHROOT_DIR directory to chroot into
-P, --prefix PREFIX_DI directory prefix
-U, --users USERS list of user members of this group
[john@turayj-lin-lb ~]$ sudo less /etc/group
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
[john@turayj-lin-lb ~]$ sudo groupadd Leadevloper
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
[john@turayj-lin-lb ~]$ sudo groupadd Webdeveloper
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
[john@turayj-lin-lb ~]$ sudo groupadd Applicationdeveloper
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
[john@turayj-lin-lb ~]$
To return to your computer, move the mouse pointer outside or press Ctrl+Alt.


turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
turayj-lin-lb
users:x:100:
nobody:x:65534:
utmp:x:22:
utempter:x:35:
ssh_keys:x:101:
tss:x:59:clevis
input:x:999:
kvm:x:36:
render:x:998:
systemd-journal:x:190:
systemd-coredump:x:997:
dbus:x:81:
polkitd:x:996:
avahi:x:70:
geoclue:x:995:
printadmin:x:994:
rtkit:x:172:
sgx:x:993:
libstoragemgmt:x:992:
cockpit-wsinstance:x:991:
colord:x:990:
sssd:x:989:
clevis:x:988:
setroubleshoot:x:987:
pipewire:x:986:
flatpak:x:985:
brlapi:x:984:
gdm:x:42:
gnome-initial-setup:x:983:
chrony:x:982:
slocate:x:21:
sshd:x:74:
dnsmasq:x:981:
tcpdump:x:72:
john:x:1000:
john2:x:1001:
mbdine:x:1002:
tdahl:x:1003:
nwilliams:x:1004:
chays:x:1005:
nreed:x:1006:
srubino:x:1007:
Leadevloper:x:1008:
Webdeveloper:x:1009:
Applicationdeveloper:x:1010:
(END)
To return to your computer, move the mouse pointer outside or press Ctrl+Alt.


turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
turayj-lin-lb
users:x:100:
nobody:x:65534:
utmp:x:22:
utempter:x:35:
ssh_keys:x:101:
tss:x:59:clevis
input:x:999:
kvm:x:36:
render:x:998:
systemd-journal:x:190:
systemd-coredump:x:997:
dbus:x:81:
polkitd:x:996:
avahi:x:70:
geoclue:x:995:
printadmin:x:994:
rtkit:x:172:
sgx:x:993:
libstoragemgmt:x:992:
cockpit-wsinstance:x:991:
colord:x:990:
sssd:x:989:
clevis:x:988:
setroubleshoot:x:987:
pipewire:x:986:
flatpak:x:985:
brlapi:x:984:
gdm:x:42:
gnome-initial-setup:x:983:
chrony:x:982:
slocate:x:21:
sshd:x:74:
dnsmasq:x:981:
tcpdump:x:72:
john:x:1000:
john2:x:1001:
mbdine:x:1002:
tdahl:x:1003:
nwilliams:x:1004:
chays:x:1005:
nreed:x:1006:
srubino:x:1007:
Leadevloper:x:1008:mbdine,tdahl
Webdeveloper:x:1009:nwilliams,chays
Applicationdeveloper:x:1010:nreed,srubino
(END)
To return to your computer, move the mouse pointer outside or press Ctrl+Alt.


turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
turayj-lin-lb
chown: invalid group: 'root:leadev'
[john@turayj-lin-lb ~]$ sudo chown -R root:Leadevlopment /development
/etc/sudoers:101:25: syntax error
mbdine ALL=(ALL) All
^~~
/etc/sudoers:102:25: syntax error
tdahl ALL=(ALL) All
^~~
chown: invalid group: 'root:Leadevlopment'
[john@turayj-lin-lb ~]$ sudo chown -R root:Leadevloper /development
/etc/sudoers:101:25: syntax error
mbdine ALL=(ALL) All
^~~
/etc/sudoers:102:25: syntax error
tdahl ALL=(ALL) All
^~~
[john@turayj-lin-lb ~]$ sudo chown -R root:Webdeveloper /development/website
/etc/sudoers:101:25: syntax error
mbdine ALL=(ALL) All
^~~
/etc/sudoers:102:25: syntax error
tdahl ALL=(ALL) All
^~~
[john@turayj-lin-lb ~]$ sudo chown -R root: Applicationdeveloper /development/website/js
/etc/sudoers:101:25: syntax error
mbdine ALL=(ALL) All
^~~
/etc/sudoers:102:25: syntax error
tdahl ALL=(ALL) All
^~~
chown: cannot access 'Applicationdeveloper': No such file or directory
[john@turayj-lin-lb ~]$ sudo chown -R root:Applicationdeveloper /development/website/js
/etc/sudoers:101:25: syntax error
mbdine ALL=(ALL) All
^~~
/etc/sudoers:102:25: syntax error
tdahl ALL=(ALL) All
^~~
[john@turayj-lin-lb ~]$ sudo chmod -R 755 /development
/etc/sudoers:101:25: syntax error
mbdine ALL=(ALL) All
^~~
/etc/sudoers:102:25: syntax error
tdahl ALL=(ALL) All
^~~
[john@turayj-lin-lb ~]$
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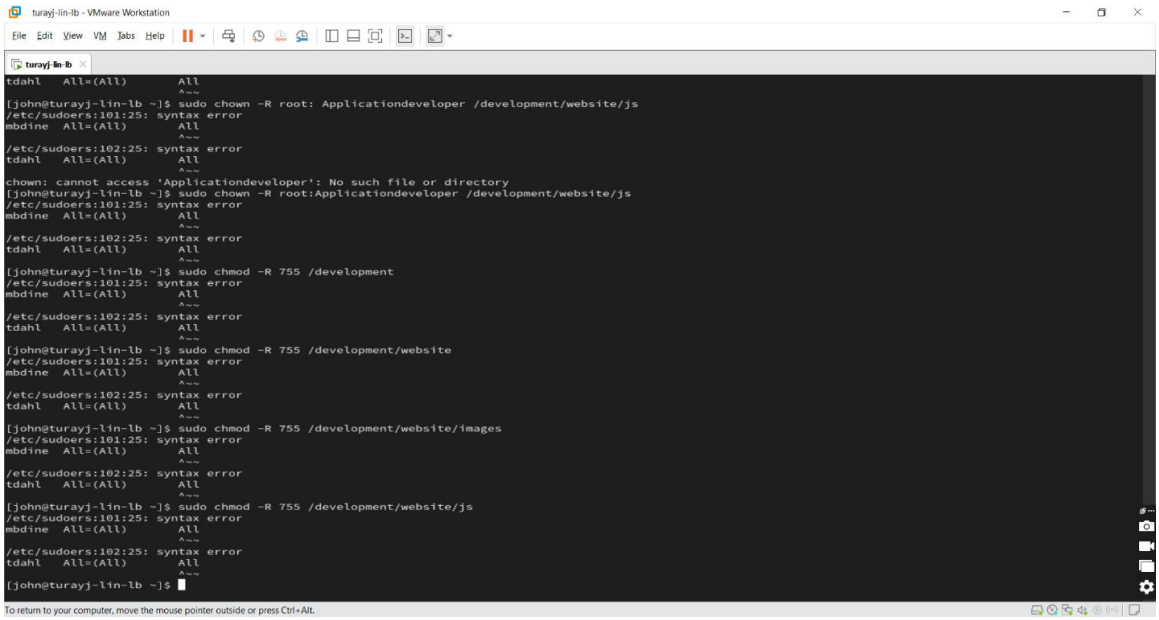
turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
turayj-lin-lb
tdahl All=(All) All
^~~
[john@turayj-lin-lb ~]$ sudo chown -R root: Applicationdeveloper /development/website/js
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
chown: cannot access 'Applicationdeveloper': No such file or directory
[john@turayj-lin-lb ~]$ sudo chown -R root:Applicationdeveloper /development/website/js
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
[john@turayj-lin-lb ~]$ sudo chmod -R 755 /development
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
[john@turayj-lin-lb ~]$ sudo chmod -R 755 /development/website
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
[john@turayj-lin-lb ~]$ sudo chmod -R 755 /development/website/images
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
[john@turayj-lin-lb ~]$ sudo chmod -R 755 /development/website/js
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
[john@turayj-lin-lb ~]$
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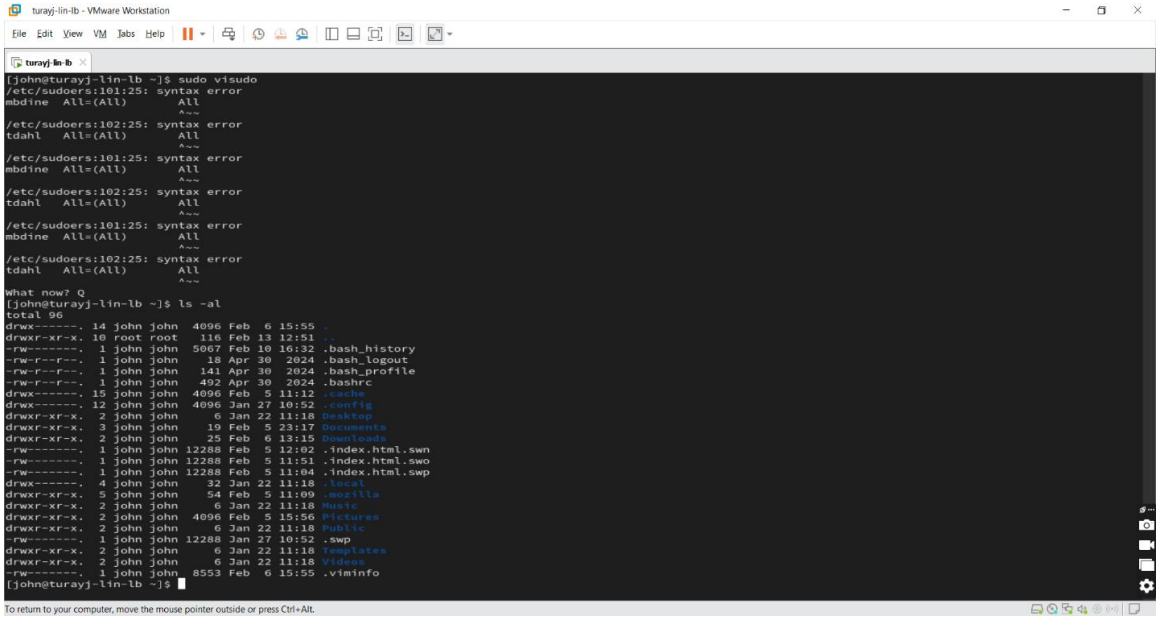
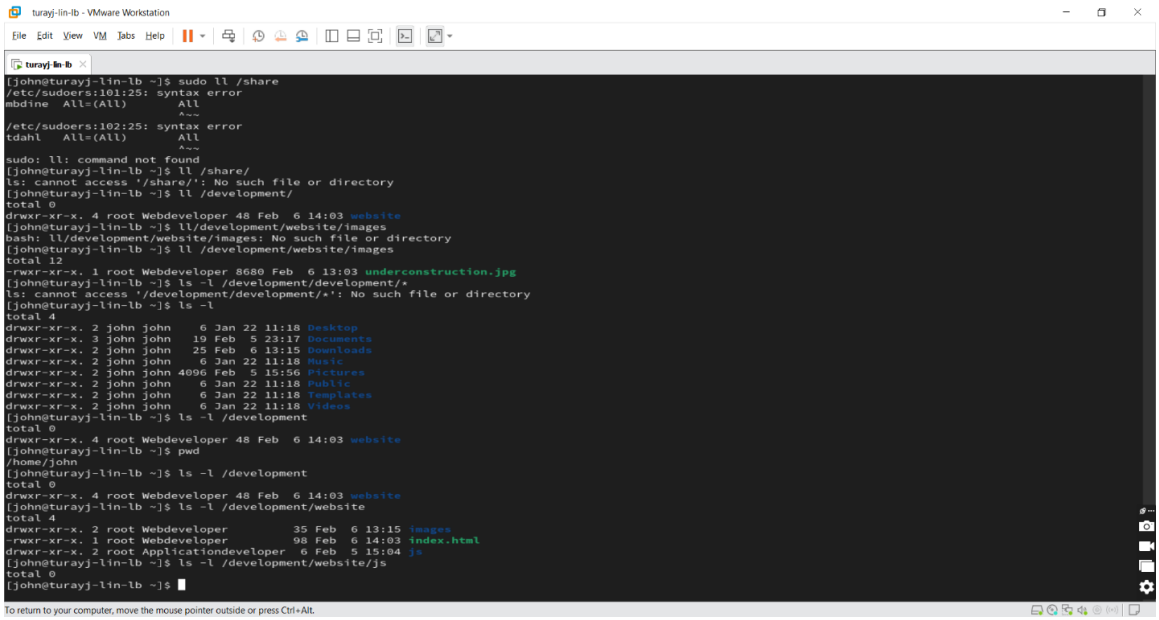

turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
turayj-lin-lb
[john@turayj-lin-lb ~]$ sudo visudo
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
/etc/sudoers:101:25: syntax error
mbdine All=(All) All
^~~
/etc/sudoers:102:25: syntax error
tdahl All=(All) All
^~~
What now? Q
[john@turayj-lin-lb ~]$ ls -al
total 96
drwx------. 14 john john 4096 Feb 6 15:55 .
drwxr-xr-x. 10 root root 116 Feb 13 12:51 ..
-rw-------. 1 john john 5067 Feb 10 16:32 .bash_history
-rw-r--r--. 1 john john 18 Apr 30 2024 .bash_logout
-rw-r--r--. 1 john john 141 Apr 30 2024 .bash_profile
-rw-r--r--. 1 john john 492 Apr 30 2024 .bashrc
drwx------. 15 john john 4096 Feb 5 11:12 .cache
drwx------. 12 john john 4096 Jan 27 10:52 .config
drwxr-xr-x. 2 john john 6 Jan 22 11:18 Desktop
drwxr-xr-x. 3 john john 19 Feb 5 23:17 Documents
drwxr-xr-x. 2 john john 25 Feb 6 13:15 Downloads
-rw-------. 1 john john 12288 Feb 5 12:02 .index.html.swn
-rw-------. 1 john john 12288 Feb 5 11:51 .index.html.swo
-rw-------. 1 john john 12288 Feb 5 11:04 .index.html.swp
drwx------. 4 john john 32 Jan 22 11:18 .local
drwxr-xr-x. 5 john john 54 Feb 5 11:09 .mozilla
drwxr-xr-x. 2 john john 6 Jan 22 11:18 Music
drwxr-xr-x. 2 john john 4096 Feb 5 15:56 Pictures
drwxr-xr-x. 2 john john 6 Jan 22 11:18 Public
-rw-------. 1 john john 12288 Jan 27 10:52 .swp
drwxr-xr-x. 2 john john 6 Jan 22 11:18 Templates
drwxr-xr-x. 2 john john 6 Jan 22 11:18 Videos
-rw-------. 1 john john 8553 Feb 6 15:55 .viminfo
[john@turayj-lin-lb ~]$
To return to your computer, move the mouse pointer outside or press Ctrl+Alt.


turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
turayj-lin-lb
[john@turayj-lin-lb ~]$ sudo ll /share
/etc/sudoers:101:25: syntax error
mbdine All=(All)   All
                        ^~~
/etc/sudoers:102:25: syntax error
tdahl   All=(All)   All
                        ^~~
sudo: ll: command not found
[john@turayj-lin-lb ~]$ ll /share/
ls: cannot access '/share/': No such file or directory
[john@turayj-lin-lb ~]$ ll /development/
total 0
drwxr-xr-x. 4 root Webdeveloper 48 Feb 6 14:03 website
[john@turayj-lin-lb ~]$ ll/development/website/images
bash: ll/development/website/images: No such file or directory
[john@turayj-lin-lb ~]$ ll /development/website/images
total 12
-rwxr-xr-x. 1 root Webdeveloper 8680 Feb 6 13:03 underconstruction.jpg
[john@turayj-lin-lb ~]$ ls -l /development/development/*
ls: cannot access '/development/development/*': No such file or directory
[john@turayj-lin-lb ~]$ ls -l
total 4
drwxr-xr-x. 2 john john   6 Jan 22 11:18 Desktop
drwxr-xr-x. 3 john john   19 Feb 5 23:17 Documents
drwxr-xr-x. 2 john john   25 Feb 6 13:15 Downloads
drwxr-xr-x. 2 john john   6 Jan 22 11:18 Music
drwxr-xr-x. 2 john john 4096 Feb 5 15:56 Pictures
drwxr-xr-x. 2 john john   6 Jan 22 11:18 Public
drwxr-xr-x. 2 john john   6 Jan 22 11:18 Templates
drwxr-xr-x. 2 john john   6 Jan 22 11:18 Videos
[john@turayj-lin-lb ~]$ ls -l /development
total 0
drwxr-xr-x. 4 root Webdeveloper 48 Feb 6 14:03 website
[john@turayj-lin-lb ~]$ pwd
/home/john
[john@turayj-lin-lb ~]$ ls -l /development
total 0
drwxr-xr-x. 4 root Webdeveloper 48 Feb 6 14:03 website
[john@turayj-lin-lb ~]$ ls -l /development/website
total 4
drwxr-xr-x. 2 root Webdeveloper   35 Feb 6 13:15 images
-rwxr-xr-x. 1 root Webdeveloper   98 Feb 6 14:03 index.html
drwxr-xr-x. 2 root Applicationdeveloper 6 Feb 5 15:04 js
[john@turayj-lin-lb ~]$ ls -l /development/website/js
total 0
[john@turayj-lin-lb ~]$
To return to your computer, move the mouse pointer outside or press Ctrl+Alt.