

Experiment-4

Create the /home/consultants directory. Add write permission to the consultants directory. Use the symbolic method for setting the appropriate permissions. Forbid others from accessing files in the /home/consultants directory. Use the octal method for setting the appropriate permissions. Change the default umask for the operator1 user. The new umask prohibits all access for users that are not in their group. Confirm that the umask is changed.

Approach-

Create the /home/consultants directory, set write permission using the symbolic method, and restrict access for others using the octal method. Change the default umask for operator1 to deny all access for non-group users, then verify the updated umask setting.

```
vboxuser@ubuntu: ~/Desktop$ sudo mkdir /home/consultants
[sudo] password for vboxuser:
vboxuser@ubuntu: ~/Desktop$ sudo chmod g+w /home/consultants
vboxuser@ubuntu: ~/Desktop$ sudo chmod 770 /home/consultants
vboxuser@ubuntu: ~/Desktop$

vboxuser@ubuntu: ~/Desktop$ sudo nano /home/ operator2 /.bashrc
vboxuser@ubuntu: ~/Desktop$ su - operator2
Password:
operator2@ubuntu: ~$ source ~/.bashrc

GNU nano 7.2 /home/operator1/.bashrc *
# colored GCC warnings and errors
export GCC_COLORS='error=01;31:warning=01;35:note=01;36:caret=01;32:locus=01;'

# some more ls aliases
alias ll='ls -alF'
alias la='ls -A'
alias l='ls -CF'

# Add an "alert" alias for long running commands. Use like so:
# sleep 10; alert
alias alert='notify-send --urgency=low -i "${[ $? = 0 ]} && echo terminal || echo error)" "$(history|tail -n1|sed -e '\''s/^s*[0-9]*[+]*s*//;s/[[:blank:]]\s*alert$//'\''")"'

# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi

umask 007

operator2@ubuntu: ~$ umask
0007
operator2@ubuntu: ~$
```

commands used-

mkdir
chmod
umask