

National Technical University of Ukraine
“Igor Sikorsky Kyiv Polytechnic Institute”
Faculty of Informatics and Computer Science
Department of Information Systems and Technologies

Laboratory work № ____
from the discipline «LINUX»

Subject: «Introduction to Ubuntu»

Performed by:

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ST

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FOR EXPORT ENV :

Ubuntu Linux [Çalışıyor] - Oracle VM VirtualBox

Dosya Makine Görünüm Giriş Aygıtlar Yardım

Etkinlikler Uçbirim 18 Eki 20:34

mehmet@mehmet-VirtualBox: ~

```
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
Thunderbird Mail VirtualBox:-$ env  
SHELL=/bin/bash  
SESSION_MANAGER=local/mehmet-VirtualBox:@/tmp/.ICE-unix/868,unix/mehmet-VirtualBox:/tmp/.ICE-unix/868  
QT_ACCESSIBILITY=1  
COLORTERM=truecolor  
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg  
SSH_AGENT_LAUNCHER=gnome-keyring  
XDG_MENU_PREFIX=gnome-  
GNOME_DESKTOP_SESSION_ID=this-is-deprecated  
GNOME_SHELL_SESSION_MODE=ubuntu  
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh  
XMODIFIERS=@im=ibus  
DESKTOP_SESSION=ubuntu  
GTK_MODULES=gail:atk-bridge  
PWD=/home/mehmet  
LOGNAME=mehmet  
XDG_SESSION_DESKTOP=ubuntu  
XDG_SESSION_TYPE=wayland  
SYSTEMD_EXEC_PID=900  
XAUTHORITY=/run/user/1000/.mutter-Xwaylandauth.OFWJD2  
HOME=/home/mehmet  
USERNAME=mehmet  
IM_CONFIG_PHASE=1  
LANG=tr_TR.UTF-8  
LS_COLORS=rs=0:di=01:34:ln=01:36:mh=00:pi=40:33:so=01:35:do=01:35:bd=40:33:01:cd=40:33:01:or=40:31:01:mi=00:su=37:41:sg=30:43:ca=30:  
41:tw=30:42:ow=34:42:st=37:44:ex=01:32:*.tar=01:31:*.tgz=01:31:*.arc=01:31:*.arj=01:31:*.tar.zst=01:31:*.lha=01:31:*.lz4=01:31:*.lzh=01:  
31:*.lzma=01:31:*.tlz=01:31:*.txz=01:31:*.tzo=01:31:*.tz=01:31:*.tzs=01:31:*.tzt=01:31:*.zip=01:31:*.z=01:31:*.dz=01:31:*.gz=01:31:*.lrz=01:31:*.lz=01:31:  
*.lzo=01:31:*.xz=01:31:*.xz=01:31:*.zst=01:31:*.zst=01:31:*.bz2=01:31:*.bz=01:31:*.tbz=01:31:*.tbz2=01:31:*.tz=01:31:*.deb=01:31:*.rpm=01:31:*.  
jar=01:31:*.war=01:31:*.ear=01:31:*.sar=01:31:*.rar=01:31:*.alz=01:31:*.ace=01:31:*.zoo=01:31:*.cpto=01:31:*.7z=01:31:*.rz=01:31:*.c  
ab=01:31:*.wim=01:31:*.dwm=01:31:*.esd=01:31:*.jpg=01:35:*.jpeg=01:35:*.njpg=01:35:*.mjpeg=01:35:*.gif=01:35:*.bmp=01:35:  
*:pbm=01:35:*.pgm=01:35:*.ppm=01:35:*.tga=01:35:*.xbm=01:35:*.xpm=01:35:*.tif=01:35:*.tiff=01:35:*.png=01:35:*.svg=01:35:*.svzg=01:  
35:*.mng=01:35:*.pcx=01:35:*.mov=01:35:*.mpg=01:35:*.mpeg=01:35:*.m2v=01:35:*.mkv=01:35:*.webm=01:35:*.webp=01:35:*.ogm=01:35:*.mp4=  
01:35:*.m4v=01:35:*.mp4v=01:35:*.vob=01:35:*.qt=01:35:*.nuv=01:35:*.wmv=01:35:*.asf=01:35:*.rm=01:35:*.rmvb=01:35:*.flc=01:35:*.avi=01:  
35:*.fli=01:35:*.flv=01:35:*.gl=01:35:*.dl=01:35:*.xcf=01:35:*.xwd=01:35:*.yuv=01:35:*.cgm=01:35:*.emf=01:35:*.ogv=01:35:*.ogx=01:  
35:*.aac=00:36:*.au=00:36:*.flac=00:36:*.m4a=00:36:*.mid=00:36:*.midi=00:36:*.mka=00:36:*.mp3=00:36:*.mpc=00:36:*.ogg=00:36:*.ra=00:  
36:*.wav=00:36:*.oga=00:36:*.opus=00:36:*.spx=00:36:*.xspf=00:36:
```

Ubuntu Linux [Çalışıyor] - Oracle VM VirtualBox

Dosya Makine Görünüm Giriş Aygıtlar Yardım

Etkinlikler Uçbirim 18 Eki 20:34

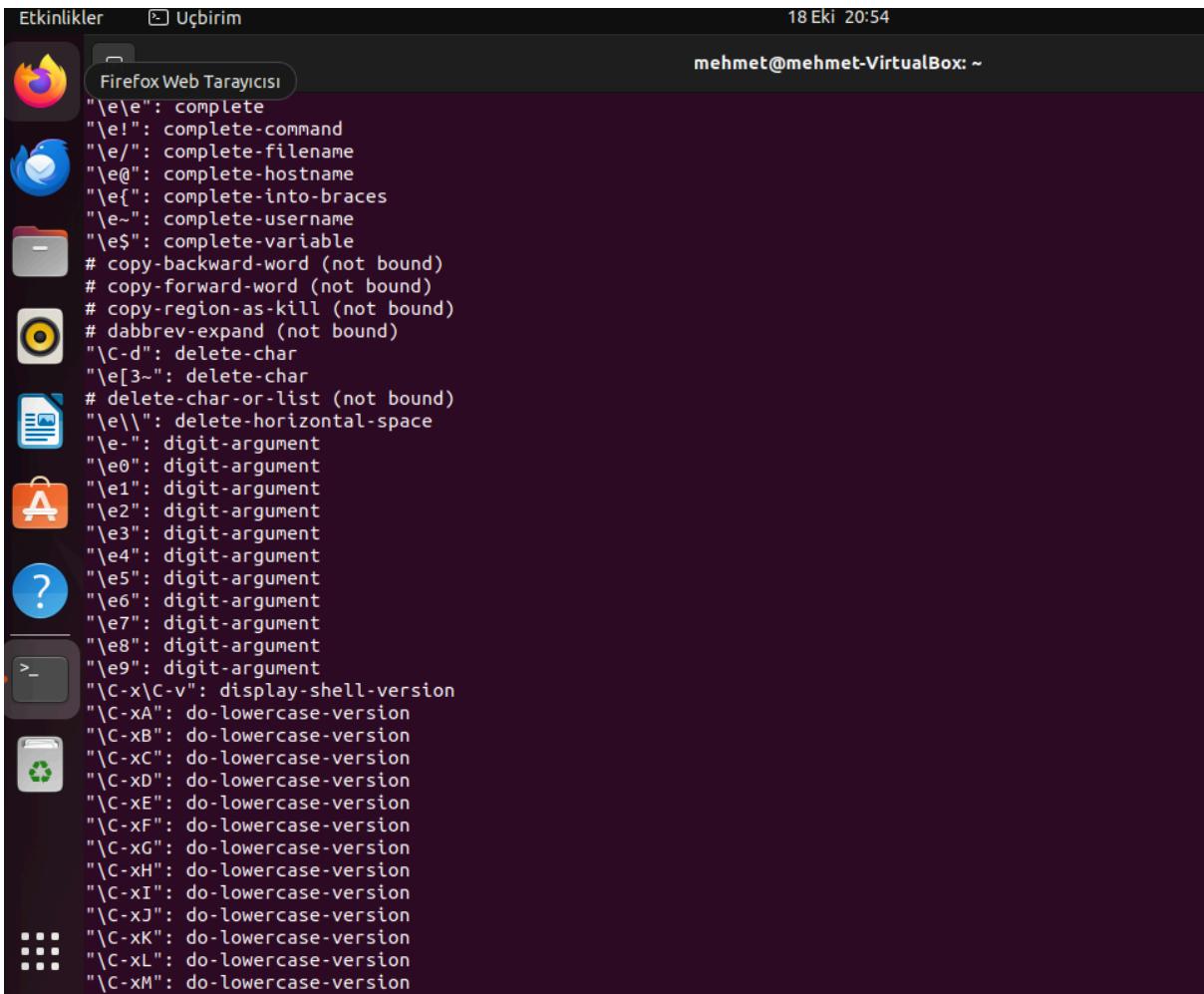
mehmet@mehmet-VirtualBox: ~

```
SYSTEMD_EXEC_PID=900  
XAUTHORITY=/run/user/1000/.mutter-Xwaylandauth.OFWJD2  
HOME=/home/mehmet  
USERNAME=mehmet  
IM_CONFIG_PHASE=1  
LANG=tr_TR.UTF-8  
LS_COLORS=rs=0:di=01:34:ln=01:36:mh=00:pi=40:33:so=01:35:do=01:35:bd=40:33:01:cd=40:33:01:or=40:31:01:mi=00:su=37:41:sg=30:43:ca=30:  
41:tw=30:42:ow=34:42:st=37:44:ex=01:32:*.tar=01:31:*.tgz=01:31:*.arc=01:31:*.arj=01:31:*.tar.zst=01:31:*.lha=01:31:*.lz4=01:31:*.lzh=01:  
31:*.lzma=01:31:*.tlz=01:31:*.txz=01:31:*.tzo=01:31:*.tz=01:31:*.tzs=01:31:*.tzt=01:31:*.zip=01:31:*.z=01:31:*.dz=01:31:*.gz=01:31:*.lrz=01:31:*.lz=01:31:  
*.lzo=01:31:*.xz=01:31:*.xz=01:31:*.zst=01:31:*.bz2=01:31:*.bz=01:31:*.tbz=01:31:*.tbz2=01:31:*.tz=01:31:*.deb=01:31:*.rpm=01:31:*.  
jar=01:31:*.war=01:31:*.ear=01:31:*.sar=01:31:*.rar=01:31:*.alz=01:31:*.ace=01:31:*.zoo=01:31:*.cpto=01:31:*.7z=01:31:*.rz=01:31:*.c  
ab=01:31:*.wim=01:31:*.dwm=01:31:*.esd=01:31:*.jpg=01:35:*.jpeg=01:35:*.njpg=01:35:*.mjpeg=01:35:*.gif=01:35:*.bmp=01:35:  
*:pbm=01:35:*.pgm=01:35:*.ppm=01:35:*.tga=01:35:*.xbm=01:35:*.xpm=01:35:*.tif=01:35:*.tiff=01:35:*.png=01:35:*.svg=01:35:*.svzg=01:  
35:*.mng=01:35:*.pcx=01:35:*.mov=01:35:*.mpg=01:35:*.mpeg=01:35:*.m2v=01:35:*.mkv=01:35:*.webm=01:35:*.webp=01:35:*.ogm=01:35:*.mp4=  
01:35:*.m4v=01:35:*.mp4v=01:35:*.vob=01:35:*.qt=01:35:*.nuv=01:35:*.wmv=01:35:*.asf=01:35:*.rm=01:35:*.rmvb=01:35:*.flc=01:35:*.avi=01:  
35:*.fli=01:35:*.flv=01:35:*.gl=01:35:*.dl=01:35:*.xcf=01:35:*.xwd=01:35:*.yuv=01:35:*.cgm=01:35:*.emf=01:35:*.ogv=01:35:*.ogx=01:  
35:*.aac=00:36:*.au=00:36:*.flac=00:36:*.m4a=00:36:*.mid=00:36:*.midi=00:36:*.mka=00:36:*.mp3=00:36:*.mpc=00:36:*.ogg=00:36:*.ra=00:  
36:*.wav=00:36:*.oga=00:36:*.opus=00:36:*.spx=00:36:*.xspf=00:36:  
XDG_CURRENT_DESKTOP=ubuntu:GNOME  
VTE_VERSION=6800  
WAYLAND_DISPLAY=xwayland-0  
GNOME_TERMINAL_SCREEN=/org/gnome/Terminal/screen/d784fea5_95d3_40e3_9633_d577e212da96  
GNOME_SETUP_DISPLAY=:1  
LESSCLOSE=/usr/bin/lesspipe %s %s  
XDG_SESSION_CLASS=user  
TERM=xterm-256color  
LESSOPEN=| /usr/bin/lesspipe %s  
USER=mehmet  
GNOME_TERMINAL_SERVICE=:1.98  
DISPLAY=:0  
SHLVL=1  
QT_IM_MODULE=ibus  
XDG_RUNTIME_DIR=/run/user/1000  
XDG_DATA_DIRS=/usr/share/ubuntu:/usr/local/share/:/usr/share/:/var/lib/snapd/desktop  
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/bin:/usr/games:/usr/local/games:/snap/bin  
GDMSESSION=ubuntu  
DBUS_SESSION_BUS_ADDRESS=unix:path=/run/user/1000/bus
```

FOR WHO (THE USER) ,ECHO \$PATH –PATH DETAIL,ALIAS ,İS,BİND,

```
Etkinlikler Uçbirim mehmet@mehmet-VirtualBox: ~ 18 EKI 20:54
mehmet@mehmet-VirtualBox:~$ bind -p

"\C-g": abort
"\C-x\C-g": abort
"\e\C-g": abort
"\C-j": accept-line
"\C-m": accept-line
# alias-expand-line (not bound)
# arrow-key-prefix (not bound)
# backward-byte (not bound)
"\C-b": backward-char
"\eOD": backward-char
"\e[D": backward-char
"\C-h": backward-delete-char
"\C-?": backward-delete-char
"\C-x\C-?": backward-kill-line
"\e\C-h": backward-kill-word
"\e\C-?": backward-kill-word
"\e\e[D": backward-word
"\e[1;3D": backward-word
"\e[1;5D": backward-word
"\e[5D": backward-word
"\eb": backward-word
"\e<": beginning-of-history
"\C-a": beginning-of-line
"\eOH": beginning-of-line
"\e[1~":" beginning-of-line
"\e[H": beginning-of-line
"\e[200~":" bracketed-paste-begin
"\C-xe": call-last-kbd-macro
"\ec": capitalize-word
"\C-]": character-search
"\e\C-]": character-search-backward
"\e\C-l": clear-display
"\C-l": clear-screen
"\C-I": complete
"\e\e": complete
"\e!": complete-command
"\e/": complete-filename
"\e@": complete-hostname
```



Etkinlikler Uçbirim 18 EKI 20:54

mehmet@mehmet-VirtualBox: ~

```
"\C-xN": do-lowercase-version
"\C-x0": do-lowercase-version
"\C-xP": do-lowercase-version
"\C-xQ": do-lowercase-version
"\C-xR": do-lowercase-version
"\C-xS": do-lowercase-version
"\C-xT": do-lowercase-version
"\C-xU": do-lowercase-version
"\C-xV": do-lowercase-version
"\C-xW": do-lowercase-version
"\C-xX": do-lowercase-version
"\C-xY": do-lowercase-version
"\C-xZ": do-lowercase-version
"\eA": do-lowercase-version
"\eB": do-lowercase-version
"\eC": do-lowercase-version
"\eD": do-lowercase-version
"\eE": do-lowercase-version
"\eF": do-lowercase-version
"\eG": do-lowercase-version
"\eH": do-lowercase-version
"\eI": do-lowercase-version
"\eJ": do-lowercase-version
"\eK": do-lowercase-version
"\eL": do-lowercase-version
"\eM": do-lowercase-version
"\eN": do-lowercase-version
"\eP": do-lowercase-version
"\eQ": do-lowercase-version
"\eR": do-lowercase-version
"\eS": do-lowercase-version
"\eT": do-lowercase-version
"\eU": do-lowercase-version
"\eV": do-lowercase-version
"\eW": do-lowercase-version
"\eX": do-lowercase-version
"\eY": do-lowercase-version
"\eZ": do-lowercase-version
"\el": downcase-word
# dump-functions (not bound)
```

Etkinlikler Uçbirim 18 EKI 20:55

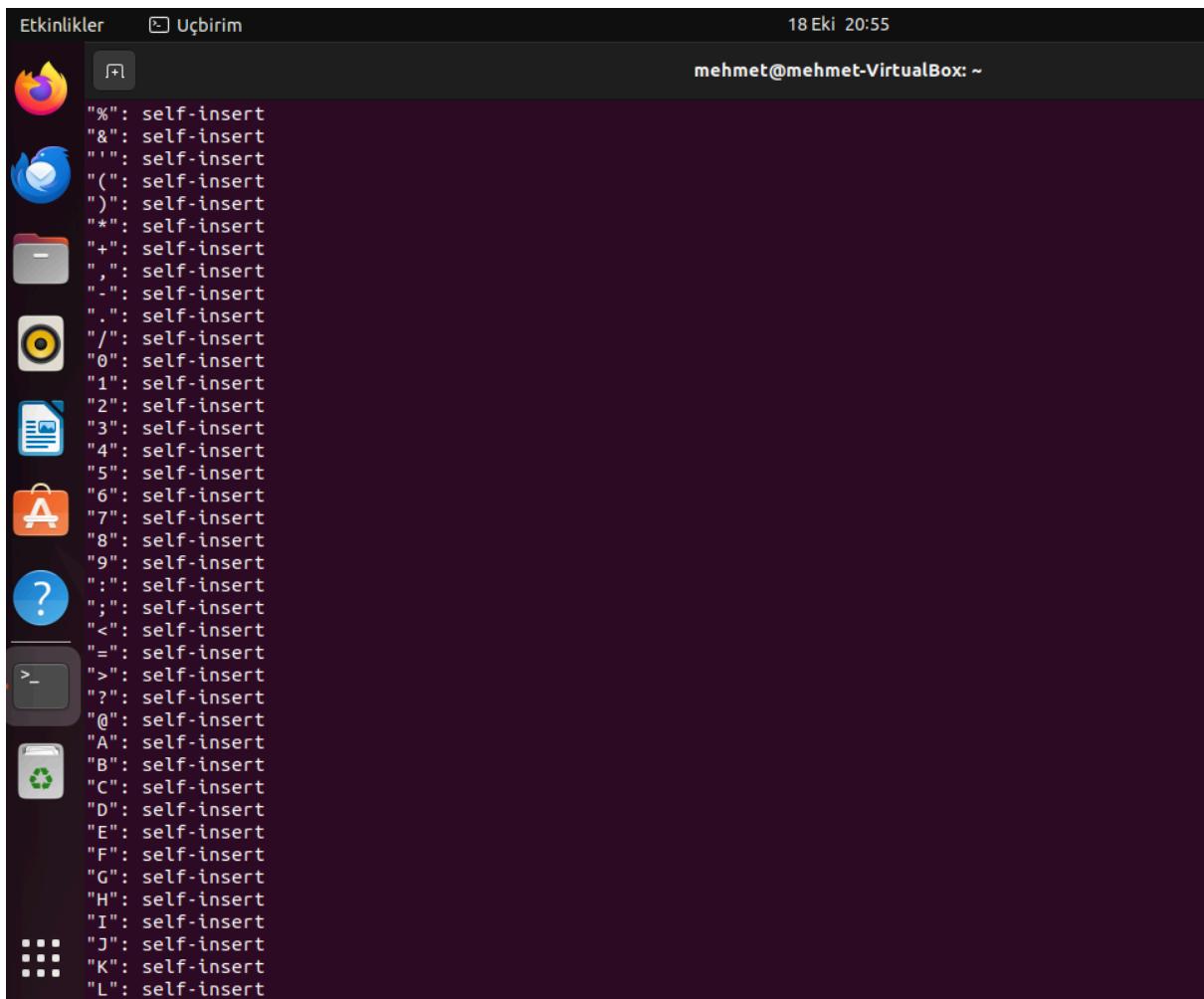
mehmet@mehmet-VirtualBox: ~

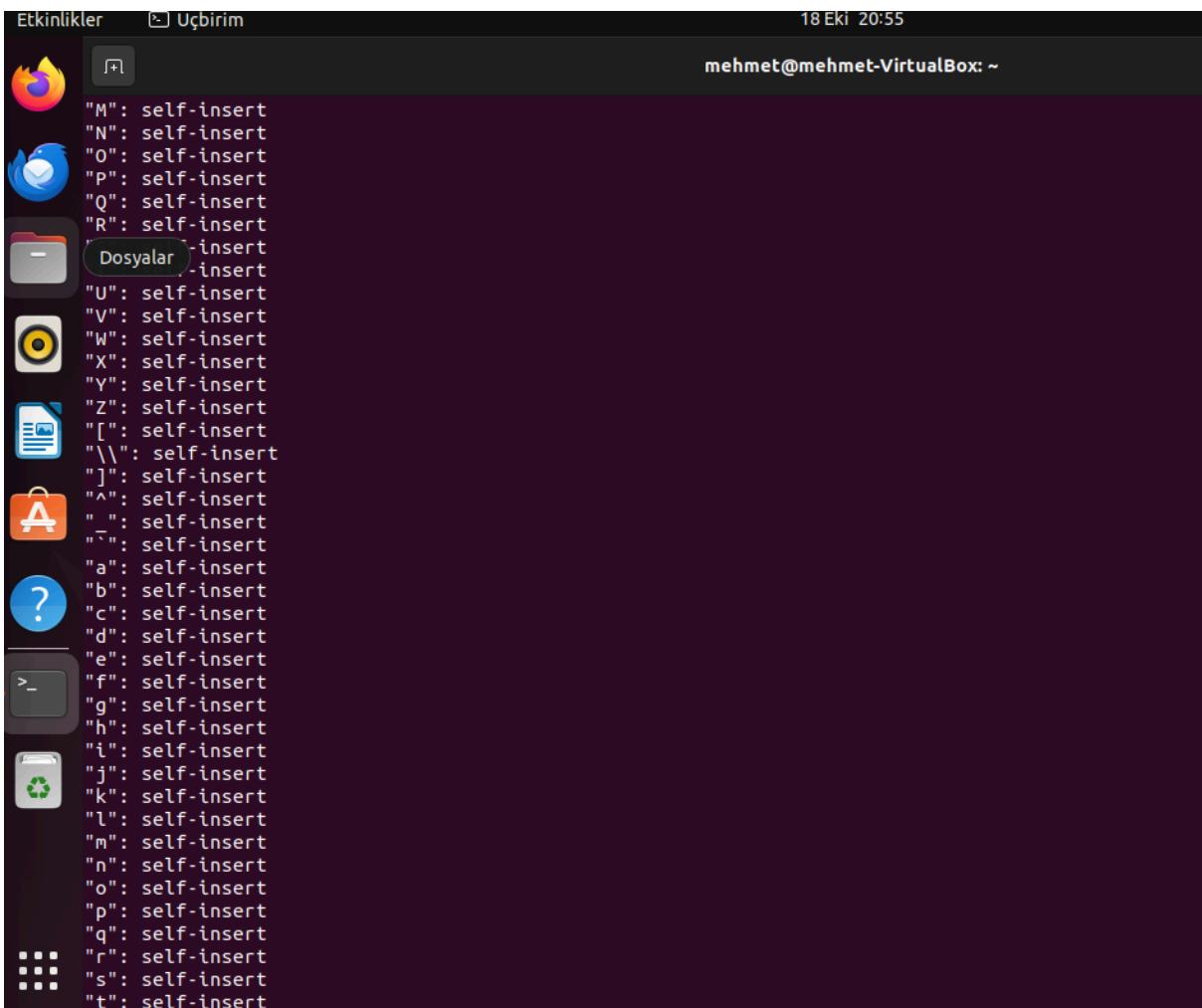
```
# dump-macros (not bound)
# dump-variables (not bound)
"\e(-I": dynamic-complete-history
"\C-x\C-e": edit-and-execute-command
# emacs-editing-mode (not bound)
"\C-x)": end-kbd-macro
"\e)": end-of-history
"\C-e": end-of-line
"\eOF": end-of-line
"\e[4~": end-of-line
"\e[F": end-of-line
"\C-x\C-x": exchange-point-and-mark
# forward-backward-delete-char (not bound)
# forward-huye (not bound)
LibreOffice Writer char
"\eUC": forward-char
"\e[C": forward-char
"\C-s": forward-search-history
"\e[E[C": forward-word
"\e[1;3C": forward-word
"\e[1;5C": forward-word
"\e[5C": forward-word
"\ef": forward-word
"\eg": glob-complete-word
"\C-xx": glob-expand-word
"\C-xg": glob-list-expansions
# history-and-alias-expand-line (not bound)
"\e^": history-expand-line
# history-search-backward (not bound)
# history-search-forward (not bound)
# history-substring-search-backward (not bound)
# history-substring-search-forward (not bound)
"\e#": insert-comment
"\e*": insert-completions
"\e.": insert-last-argument
"\e_": insert-last-argument
"\C-k": kill-line
# kill-region (not bound)
# kill-whole-line (not bound)
"\e[3;5~": kill-word
```

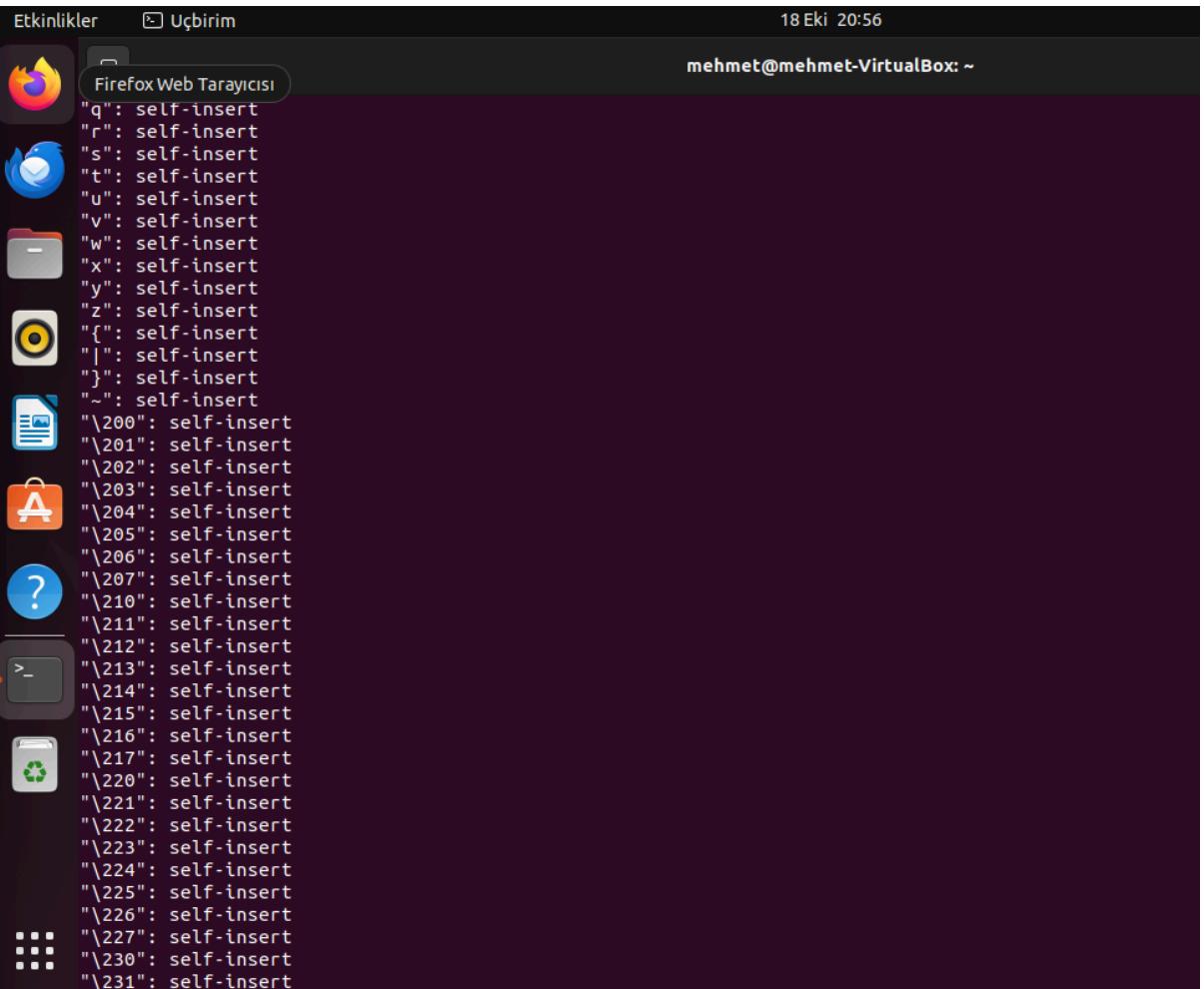
Etkinlikler Uçbirim 18 Eki 20:55

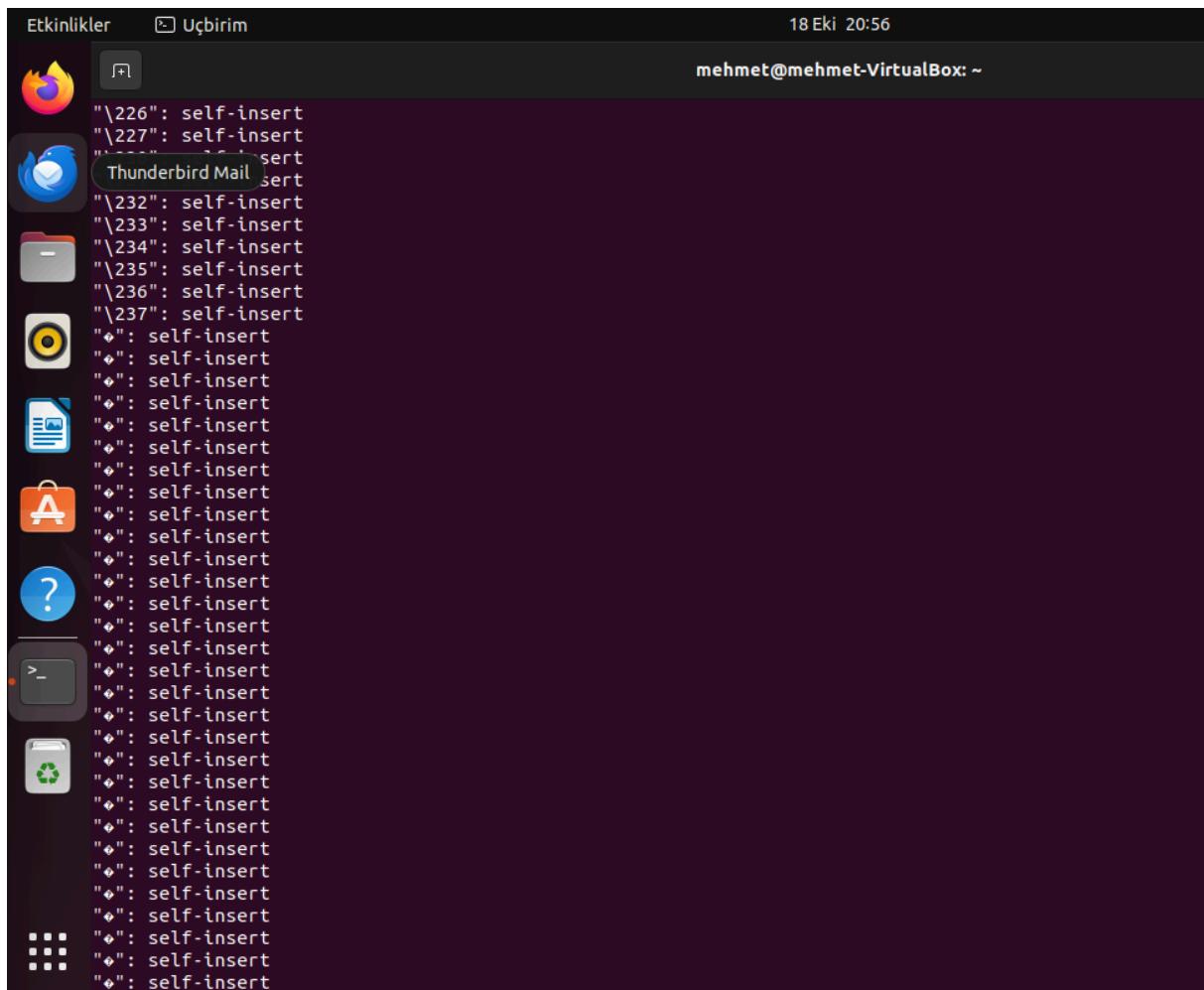
```
mehmet@mehmet-VirtualBox: ~
```

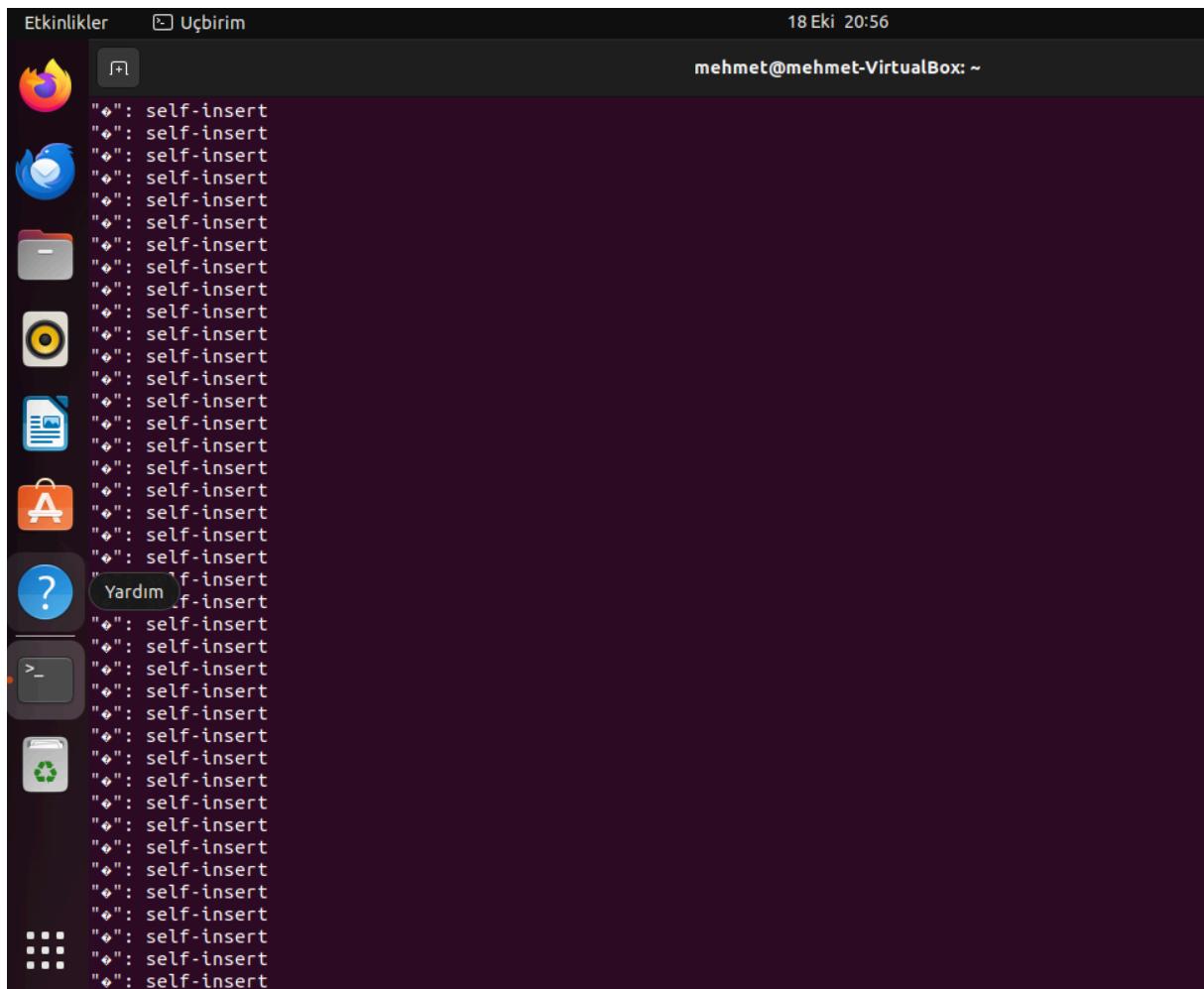
```
"\ed": kill-word
# magic-space (not bound)
# menu-complete (not bound)
# menu-complete-backward (not bound)
"\C-n": next-history
"\eOB": next-history
"\e[B": next-history
# next-screen-line (not bound)
"\en": non-incremental-forward-search-history
# non-incremental-forward-search-history-again (not bound)
"\ep": non-incremental-reverse-search-history
# non-incremental-reverse-search-history-again (not bound)
# old-menu-complete (not bound)
"\c-o": operate-and-get-next
# overwrite-mode (not bound)
"\c-x!": possible-command-completions
"\e=". possible-completions
"\e?": possible-completions
"\c-x/": possible-filename-completions
"\c-x@": possible-hostname-completions
"\c-x~": possible-username-completions
"\c-x": possible-variable-completions
Yardim previous-history
"\eOA": previous-history
"\e[A": previous-history
# previous-screen-line (not bound)
# print-last-kbd-macro (not bound)
"\c-q": quoted-insert
"\c-v": quoted-insert
"\e[2~": quoted-insert
# redraw-current-line (not bound)
"\c-x\c-r": re-read-init-file
"\c-r": reverse-search-history
"\e\c-r": revert-line
"\er": revert-line
": self-insert
": self-insert
"\": self-insert
"#": self-insert
"\$": self-insert
```











Etkinlikler Uçbirim 18 Eki 20:56

mehmet@mehmet-VirtualBox: ~

```
"◆": self-insert
"◆": self-insert
"\C-@": set-mark
"\e ": set-mark
# shell-backward-kill-word (not bound)
"\e\C-b": shell-backward-word
"\e\C-d": Dosyalar shell-expand-line
"\e\C-d": shell-forward-word
"\e\C-d": shell-kill-word
"\e\C-t": shell-transpose-words
# skip-csi-sequence (not bound)
"\C-x()": start-kbd-macro
# tab-insert (not bound)
"\e&": tilde-expand
"\C-t": transpose-chars
"\et": transpose-words
# tty-status (not bound)
"\C-x\C-u": undo
"\C-_": undo
# universal-argument (not bound)
# unix-filename-rubout (not bound)
"\C-u": unix-line-discard
"\C-w": unix-word-rubout
"\eu": upcase-word
# vi-append-eol (not bound)
# vi-append-mode (not bound)
# vi-arg-digit (not bound)
# vi-back-to-indent (not bound)
# vi-backward-bigword (not bound)
# vi-backward-word (not bound)
# vi-bWord (not bound)
# vi-bword (not bound)
# vi-change-case (not bound)
# vi-change-char (not bound)
# vi-change-to (not bound)
# vi-char-search (not bound)
# vi-column (not bound)
# vi-complete (not bound)
# vi-delete (not bound)
# vi-delete-to (not bound)
```

Etkinlikler Uçbirim

18 Eki 20:56



[+]

```
# vi-column (not bound)
# vi-complete (not bound)
# vi-delete (not bound)
# vi-delete-to (not bound)
# vi-editing-mode (not bound)
# vi-end-bigword (not bound)
# vi-end-word (not bound)
# vi-eof-maybe (not bound)
# vi-eWord (not bound)
# vi-eword (not bound)
# vi-fetch-history (not bound)
# vi-first-print (not bound)
# vi-forward-bigword (not bound)
# vi-forward-word (not bound)
LibreOffice Writer (bound)
# vi-tword (not bound)
# vi-goto-mark (not bound)
# vi-insert-beg (not bound)
# vi-insertion-mode (not bound)
# vi-match (not bound)
# vi-movement-mode (not bound)
# vi-next-word (not bound)
# vi-overstrike (not bound)
# vi-overstrike-delete (not bound)
# vi-prev-word (not bound)
# vi-put (not bound)
# vi-redo (not bound)
# vi-replace (not bound)
# vi-rubout (not bound)
# vi-search (not bound)
# vi-search-again (not bound)
# vi-set-mark (not bound)
# vi-subst (not bound)
# vi-tilde-expand (not bound)
# vi-unix-word-rubout (not bound)
# vi-yank-arg (not bound)
# vi-yank-pop (not bound)
# vi-yank-to (not bound)
"\C-y": yank
"\e.": yank-last-arg
```



Etkinlikler Uçbirim 18 Eki 20:56

mehmet@mehmet-VirtualBox: ~

vi-editing-mode (not bound)
vi-end-bigword (not bound)
vi-end-word (not bound)
vi-eof-maybe (not bound)
vi-eWord (not bound)
vi-eword (not bound)
vi-fetch-history (not bound)
vi-first-print (not bound)
vi-forward-bigword (not bound)
vi-forward-word (not bound)
vi-fWord (not bound)
vi-fword (not bound)
vi-goto-mark (not bound)
vi-insert-beg (not bound)
vi-insertion-mode (not bound)
vi-match (not bound)
vi-movement-mode (not bound)
vi-next-word (not bound)
vi-overstrike (not bound)
vi-overstrike-delete (not bound)
vi-prev-word (not bound)
vi-put (not bound)
vi-redo (not bound)
vi-replace (not bound)
vi-rubout (not bound)
' Uçbirim 'ch (not bound)
.. 'Uçbirim 'ch-again (not bound)
vi-set-mark (not bound)
vi-subst (not bound)
vi-tilde-expand (not bound)
vi-unix-word-rubout (not bound)
vi-yank-arg (not bound)
vi-yank-pop (not bound)
vi-yank-to (not bound)
"\C-y": yank
"\e.".: yank-last-arg
"\e_": yank-last-arg
"\e\C-y": yank-nth-arg
"\ey": yank-pop
mehmet@mehmet-VirtualBox:~\$

FOR CHANGİNG DİRECTORİY -cd

vi-tilde-expand (not bound)
vi-unix-word-rubout (not bound)
vi-yank-arg (not bound)
vi-yank-pop (not bound)
vi-yank-to (not bound)
"\C-y": yank
"\e.".: yank-last-arg
"\e_": yank-last-arg
"\e\C-y": yank-nth-arg
"\ey": yank-pop
mehmet@mehmet-VirtualBox:~\$ cd /etc/
mehmet@mehmet-VirtualBox:/etc\$

TO KNOW THE CURRENT DİRECTORİY STACK :

mehmet@mehmet-VirtualBox:/etc\$ dirs
/etc
mehmet@mehmet-VirtualBox:/etc\$

FOR MANUAL OF İS (man ls)

```
mehmet@mehmet-VirtualBox: /etc
User Commands
LS(1)                                         LS(1)

NAME
ls - list directory contents

SYNOPSIS
ls [OPTION]... [FILE]...

DESCRIPTION
List information about the FILEs (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.

-a, --all
      do not ignore entries starting with .

-A, --almost-all
      do not list implied . and ..

--author
      with -l, print the author of each file

-b, --escape
      print C-style escapes for nongraphic characters

--block-size=SIZE
      with -l, scale sizes by SIZE when printing them; e.g., '--block-size=M'; see SIZE format below

-B, --ignore-backups
      do not list implied entries ending with ~

-c
      with -lt: sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and sort by name; otherwise: sort by ctime, newest first

-C
      list entries by columns

--color[=WHEN]
      colorize the output; WHEN can be 'always' (default if omitted), 'auto', or 'never'; more info below
Manual page ls(1) line 1/222 17% (press h for help or q to quit)
```

```
mehmet@mehmet-VirtualBox: /etc
User Commands
--color[=WHEN]
      colorize the output; WHEN can be 'always' (default if omitted), 'auto', or 'never'; more info below

-d, --directory
      list directories themselves, not their contents

-D, --direed
      generate output designed for Emacs' direed mode

-Rhythmbox
      do not sort, enable -aU, disable -ls --color

-F, --classify
      append indicator (one of */=>@|) to entries

--file-type
      likewise, except do not append '**'

--format=WORD
      across -x, commas -m, horizontal -x, long -l, single-column -1, verbose -l, vertical -C

--full-time
      like -l --time-style=full-iso

-g
      like -l, but do not list owner

--group-directories-first
      group directories before files;

      can be augmented with a --sort option, but any use of --sort=none (-U) disables grouping

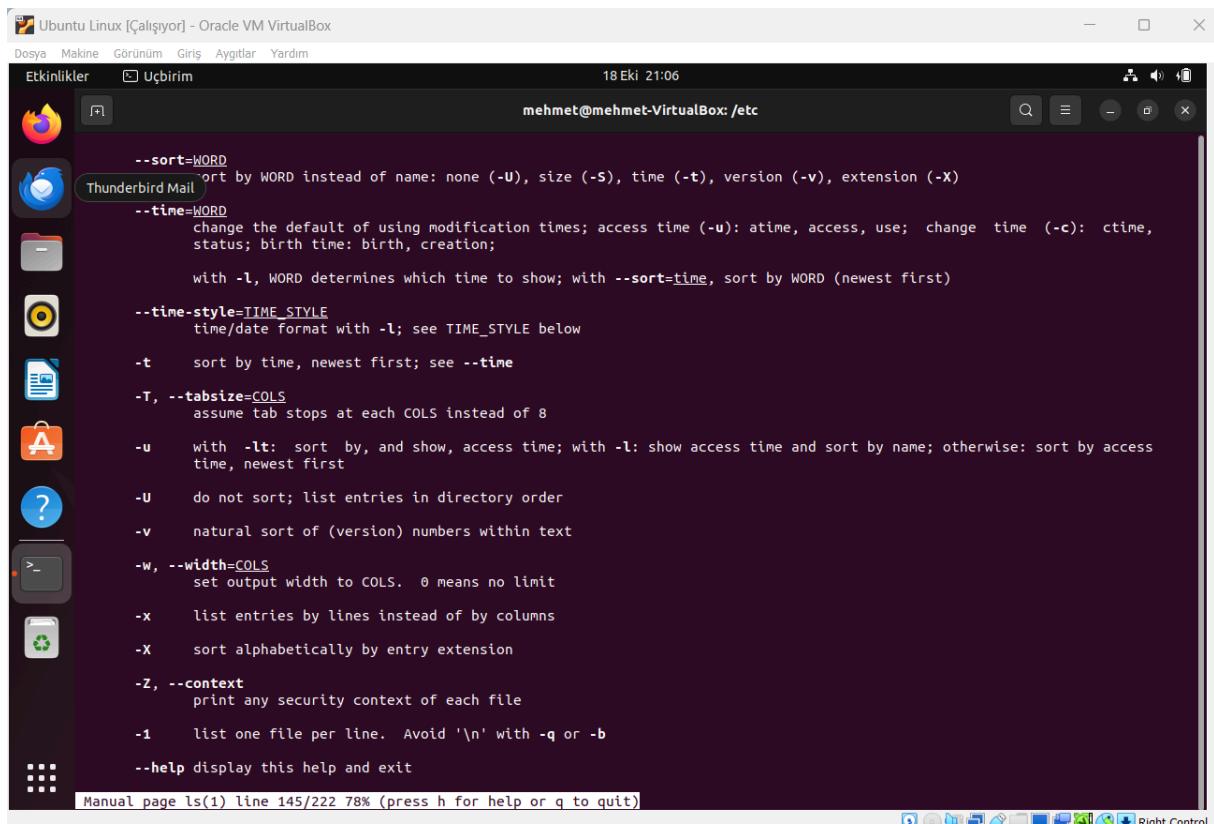
-G, --no-group
      in a long listing, don't print group names

-h, --human-readable
      with -l and -s, print sizes like 1K 234M 2G etc.

--si
      likewise, but use powers of 1000 not 1024
Manual page ls(1) line 37/222 31% (press h for help or q to quit)
```

```
Ubuntu Linux [Çalışıyor] - Oracle VM VirtualBox
Dosya Makine Görünüm Giriş Aygıtlar Yardım
Etkinlikler Uçbirim 18 Eki 21:06
mehmet@mehmet-VirtualBox: /etc
--st  likewise, but use powers of 1000 not 1024
-H, --dereference-command-line
    follow symbolic links listed on the command line
--dereference-command-line-symlink-to-dir
    follow each command line symbolic link
        that points to a directory
--hide=PATTERN
    do not list implied entries matching shell PATTERN (overridden by -a or -A)
--hyperlink[=WHEN]
    hyperlink file names; WHEN can be 'always' (default if omitted), 'auto', or 'never'
--indicator-style=WORD
    append indicator with style WORD to entry names: none (default), slash (-p), file-type (--file-type), classify (-F)
-i, --inode
    print the index number of each file
-I, --ignore=PATTERN
    do not list implied entries matching shell PATTERN
-k, --kibibytes
    default to 1024-byte blocks for disk usage; used only with -s and per directory totals
-l  use a long listing format
-L, --dereference
    when showing file information for a symbolic link, show information for the file the link references rather than for the link itself
-m  fill width with a comma separated list of entries
-n, --numeric-uid-gid
    Manual page ls(1) line 73/222 48% (press h for help or q to quit)
```

```
Ubuntu Linux [Çalışıyor] - Oracle VM VirtualBox
Dosya Makine Görünüm Giriş Aygıtlar Yardım
Etkinlikler Uçbirim 18 Eki 21:06
mehmet@mehmet-VirtualBox: /etc
-m  fill width with a comma separated list of entries
-n, --numeric-uid-gid
    like -l, but list numeric user and group IDs
-N, --literal
    print entry names without quoting
-o  like -l, but do not list group information
-p, --indicator-style=slash
    append / indicator to directories
-q, --hide-control-chars
    print ? instead of nongraphic characters
--show-control-chars
    show nongraphic characters as-is (the default, unless program is 'ls' and output is a terminal)
-Q, --quote-name
    enclose entry names in double quotes
--quoting-style=WORD
    use quoting style WORD for entry names: literal, locale, shell, shell-always, shell-escape, shell-escape-always,
    c, escape (overrides QUOTING_STYLE environment variable)
-r, --reverse
    reverse order while sorting
-R, --recursive
    list subdirectories recursively
-s, --size
    print the allocated size of each file, in blocks
-S  sort by file size, largest first
--sort=WORD
    sort by WORD instead of name: none (-u), size (-S), time (-t), version (-v), extension (-X)
    Manual page ls(1) line 109/222 64% (press h for help or q to quit)
```



```

Ubuntu Linux [Çalışıyor] - Oracle VM VirtualBox
Dosya Makine Görünüm Giriş Aygıtlar Yardım
Etkinlikler Uçbirim 18 Eki 21:06
mehmet@mehmet-VirtualBox: /etc

--help display this help and exit
--version
      output version information and exit

The SIZE argument is an integer and optional unit (example: 10K is 10*1024). Units are K,M,G,T,P,E,Z,Y (powers of 1024) or KB,MB,... (powers of 1000). Binary prefixes can be used, too: KiB=K, MiB=M, and so on.

The TIME_STYLE argument can be full-iso, long-iso, iso, locale, or +FORMAT. FORMAT is interpreted like in date(1). If FORMAT is FORMAT1<newline>FORMAT2, then FORMAT1 applies to non-recent files and FORMAT2 to recent files. TIME_STYLE prefixed with 'posix-' takes effect only outside the POSIX locale. Also the TIME_STYLE environment variable sets the default style to use.

Using color to distinguish file types is disabled both by default and with --color=never. With --color=auto, ls emits color codes only when standard output is connected to a terminal. The LS_COLORS environment variable can change the settings. Use the dircolors command to set it.

Exit status:
  0      if OK,
  1      if minor problems (e.g., cannot access subdirectory),
  2      if serious trouble (e.g., cannot access command-line argument).

AUTHOR
Written by Richard M. Stallman and David MacKenzie.

REPORTING BUGS
  GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
  Report any translation bugs to <https://translationproject.org/team/>

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  This is free software: you are free to change and redistribute it. There is NO WARRANTY, to the extent permitted by law.

SEE ALSO
  Full documentation <https://www.gnu.org/software/coreutils/ls>
  Manual page ls(1) line 181/222 98% (press h for help or q to quit)

```



```

Ubuntu Linux [Çalışıyor] - Oracle VM VirtualBox
Dosya Makine Görünüm Giriş Aygıtlar Yardım
Etkinlikler Uçbirim 18 Eki 21:06
mehmet@mehmet-VirtualBox: /etc

--version
      output version information and exit

The SIZE argument is an integer and optional unit (example: 10K is 10*1024). Units are K,M,G,T,P,E,Z,Y (powers of 1024) or KB,MB,... (powers of 1000). Binary prefixes can be used, too: KiB=K, MiB=M, and so on.

The TIME_STYLE argument can be full-iso, long-iso, iso, locale, or +FORMAT. FORMAT is interpreted like in date(1). If FORMAT is FORMAT1<newline>FORMAT2, then FORMAT1 applies to non-recent files and FORMAT2 to recent files. TIME_STYLE prefixed with 'posix-' takes effect only outside the POSIX locale. Also the TIME_STYLE environment variable sets the default style to use.

Using color to distinguish file types is disabled both by default and with --color=never. With --color=auto, ls emits color codes only when standard output is connected to a terminal. The LS_COLORS environment variable can change the settings. Use the dircolors command to set it.

Exit status:
  0      if OK,
  1      if minor problems (e.g., cannot access subdirectory),
  2      if serious trouble (e.g., cannot access command-line argument).

AUTHOR
Written by Richard M. Stallman and David MacKenzie.

REPORTING BUGS
  GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
  Report any translation bugs to <https://translationproject.org/team/>

Çöp GHT
Copyright © 2020 Free Software Foundation, Inc. License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
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SEE ALSO
  Full documentation <https://www.gnu.org/software/coreutils/ls>
  or available locally via: info '(coreutils) ls invocation'

GNU coreutils 8.32 February 2022
Manual page ls(1) line 184/222 (END) (press h for help or q to quit)

```



HERE WE DECLARE THE VARIABLA MY VARIANT WHOSE VALUE İS 08 THEN WE CHECH USING ENV

```

Ubuntu Linux [Çalışıyor] - Oracle VM VirtualBox
Dosya Makine Görünüm Giriş Aygıtlar Yardım
Etkinlikler Uçbirim 18 Eki 21:11
Firefox Web Tarayıcısı mehmet@mehmet-VirtualBox: /etc
mehmet@mehmet-VirtualBox: /etc$ man ls
mehmet@mehmet-VirtualBox: /etc$ declare MYARIANT=08
mehmet@mehmet-VirtualBox: /etc$ env
SHELL=/bin/bash
SESSION_MANAGER=local/mehmet-VirtualBox:@/tmp/.ICE-unix/868,unix/mehmet-VirtualBox:/tmp/.ICE-unix/868
QT_ACCESSIBILITY=1
COLORTERM=truecolor
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
SSH_AGENT_LAUNCHER=gnome-keyring
XDG_MENU_PREFIX=gnome-
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
GNOME_SHELL_SESSION_MODE=ubuntu
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
XMODIFIERS=@im=lbus
DESKTOP_SESSION=ubuntu
GTK_MODULES=gail:atk-bridge
PWD=/etc
LOGNAME=mehmet
XDG_SESSION_DESKTOP=ubuntu
XDG_SESSION_TYPE=wayland
SYSTEMD_EXEC_PID=900
XAUTHORITY=/run/user/1000/.mutter-Xwaylandauth.OFWJD2
HOME=/home/mehmet
USERNAME=mehmet
IM_CONFIG_PHASE=1
LANG=tr_TR.UTF-8
LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33:01:cd=40;33:01:or=40;31:01:mi=00:su=37;41:sg=30;43:ca=30;
41:tw=30;42:ow=34;42:st=37;44:ex=01;32:*.tar=01;31:*.tgz=01;31:*.arc=01;31:*.arj=01;31:*.taz=01;31:*.lha=01;31:*.lz=01;31:*.lzh=01;
31:*.lzma=01;31:*.tlz=01;31:*.txz=01;31:*.tzo=01;31:*.tz=01;31:*.zip=01;31:*.z=01;31:*.dz=01;31:*.gz=01;31:*.lrz=01;31:*.lz=01;31:*.lzh=01;
31:*.lzo=01;31:*.xz=01;31:*.zst=01;31:*.bz=01;31:*.bz2=01;31:*.tbz=01;31:*.tbz2=01;31:*.tz=01;31:*.deb=01;31:*.rpm=01;31:*.jar=01;31:*.war=01;31:*.ear=01;31:*.sar=01;31:*.rar=01;31:*.alz=01;31:*.ace=01;31:*.zoo=01;31:*.cpio=01;31:*.7z=01;31:*.rz=01;31:*.c=ab=01;31:*.wim=01;31:*.swm=01;31:*.dwm=01;31:*.esd=01;31:*.jpg=01;35:*.jpeg=01;35:*.mjpg=01;35:*.mjpeg=01;35:*.gif=01;35:*.bmp=01;35:*.pbm=01;35:*.pgm=01;35:*.ppm=01;35:*.tga=01;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=01;35:*.svgz=01;*.mng=01;35:*.pcx=01;35:*.mov=01;35:*.mpg=01;35:*.mpeg=01;35:*.m2v=01;35:*.mkv=01;35:*.webm=01;35:*.webp=01;35:*.ogm=01;35:*.mp4=01;35:*.m4v=01;35:*.mp4v=01;35:*.vob=01;35:*.qt=01;35:*.nuv=01;35:*.wmv=01;35:*.asf=01;35:*.rm=01;35:*.rmvb=01;35:*.flc=01;35:*.avi=01;35:*.fli=01;35:*.flv=01;35:*.gl=01;35:*.dl=01;35:*.xcf=01;35:*.xwd=01;35:*.yuv=01;35:*.cgm=01;35:*.emf=01;35:*.ogv=01;35:*.ogx=01;*.aac=00;36:*.au=00;36:*.flac=00;36:*.m4a=00;36:*.mid=00;36:*.midi=00;36:*.mka=00;36:*.mp3=00;36:*.mpc=00;36:*.ogg=00;36:*.ra=00;*.wav=00;36:*.oga=00;36:*.opus=00;36:*.spx=00;36:*.xspf=00;36:
XDG_CURRENT_DESKTOP=ubuntu:GNOME
VTE_VERSION=6800
WAYLAND_DISPLAY=wayland-0
GNOME_TERMINAL_SCREEN=/org/gnome/Terminal/screen/50534a59_277c_4ca3_ac61_30b43a2a8c3f
GNOME_SETUP_DISPLAY=:1
LESSCLOSE=/usr/bin/lesspipe %s %
XDG_SESSION_CLASS=user
TERM=xterm-256color
LESSOPEN=| /usr/bin/lesspipe %
USER=mehmet
GNOME_TERMINAL_SERVICE=:1.133
DISPLAY=:0
SHLVL=1
QT_IM_MODULE=ibus
XDG_RUNTIME_DIR=/run/user/1000
XDG_DATA_DIRS=/usr/share/ubuntu:/usr/local/share/:/usr/share/:/var/lib/snapd/desktop
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin:/usr/games:/usr/local/games:/snap/bin:/snap/bin
GDMSESSION=ubuntu
DBUS_SESSION_BUS_ADDRESS=unix:path=/run/user/1000/bus
_=~/usr/bin/env
OLDPWD=/home/mehmet
mehmet@mehmet-VirtualBox: /etc$ 

```

UNSET

```
mehmet@mehmet-VirtualBox: ~
```

```
Ubuntu Linux [Çalışıyor] - Oracle VM VirtualBox
```

```
Dosya Makine Görünüm Giriş Aygıtlar Yardım
```

```
Etkinlikler Uçbirim 18 Eki 21:14
```

```
mehmet@mehmet-VirtualBox: /etc$ enable -n unset
```

```
mehmet@mehmet-VirtualBox: /etc$ unset
```

```
unset: komut bulunamadı
```

```
mehmet@mehmet-VirtualBox: /etc$ enable unset
```

```
mehmet@mehmet-VirtualBox: /etc$ unset
```

```
mehmet@mehmet-VirtualBox: /etc$ unset MYARIANT
```

```
mehmet@mehmet-VirtualBox: /etc$ ENV
```

```
ENV: komut bulunamadı
```

```
mehmet@mehmet-VirtualBox: /etc$ env
```

```
SHELL=/bin/bash
```

```
SESSION_MANAGER=local/mehmet-VirtualBox:@tmp/.ICE-unix/868,unix/mehmet-VirtualBox:/tmp/.ICE-unix/868
```

```
QT_ACCESSIBILITY=1
```

```
COLORTERM=truecolor
```

```
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
```

```
SSH_AGENT_LAUNCHER=gnome-keyring
```

```
XDG_MENU_PREFIX=gnome-
```

```
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
```

```
GNOME_SHELL_SESSION_MODE=ubuntu
```

```
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
```

```
XMODIFIERS=@im=tbus
```

```
DESKTOP_SESSION=ubuntu
```

```
GTK_MODULES=gail:atk-bridge
```

```
PWD=/etc
```

```
LOGNAME=mehmet
```

```
XDG_SESSION_DESKTOP=ubuntu
```

```
XDG_SESSION_TYPE=wayland
```

```
SYSTEMD_EXEC_PID=900
```

```
XAUTHORITY=/run/user/1000/.mutter-Xwaylandauth.OFWJD2
```

```
HOME=/home/mehmet
```

```
USERNAME=mehmet
```

```
IM_CONFIG_PHASE=1
```

```
LANG=tr_TR.UTF-8
```

```
LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33:01:cd=40;33:01:or=40;31:01:mi=00:su=37;41:sg=30;43:ca=30;
```

```
41:tw=30;42:ow=34;42:s=37;44:ex=01;32*:tar=01;31*:tgz=01;31*:arc=01;31*:arj=01;31*:taz=01;31*:lha=01;31*:lzh=01;
```

```
31*:lzo=01;31*:xz=01;31*:txz=01;31*:tzo=01;31*:tz=01;31*:zip=01;31*:z=01;31*:dz=01;31*:gz=01;31*:lrz=01;31*:lz=01;31*
```

```
.lzo=01;31*:xz=01;31*:zst=01;31*:tzst=01;31*:bz2=01;31*:bz=01;31*:tbz=01;31*:tbz2=01;31*:tz=01;31*:deb=01;31*:rpm=01;31*
```

```
:jar=01;31*:war=01;31*:ear=01;31*:sar=01;31*:rar=01;31*:alz=01;31*:ace=01;31*:zoo=01;31*:cpio=01;31*:7z=01;31*:rz=01;31*:c
```

```
ab=01;31*:wim=01;31*:swm=01;31*:dwm=01;31*:esd=01;31*:jpg=01;35*:jpeg=01;35*:mjpg=01;35*:gif=01;35*:bmp=01;35
```

```
*:pbm=01;35*:pgn=01;35*:ppm=01;35*:xbm=01;35*:xpm=01;35*:tif=01;35*:tiff=01;35*:png=01;35*:svg=01;35*:svga=01;35*
```

```
:35*:mng=01;35*:pcx=01;35*:mov=01;35*:mpg=01;35*:mpeg=01;35*:m2v=01;35*:mkv=01;35*:webm=01;35*:ogg=01;35*:mp4=
```

```
01;35*:m4v=01;35*:mp4v=01;35*:vob=01;35*:qt=01;35*:nuv=01;35*:wmv=01;35*:ASF=01;35*:rm=01;35*:rmb=01;35*:flc=01;35*:avf=
```

```
01;35*:fli=01;35*:flv=01;35*:gl=01;35*:dl=01;35*:xcf=01;35*:xwd=01;35*:yuv=01;35*:cgm=01;35*:emf=01;35*:ogv=01;35*:ogx=01
```

```
;35*:aac=00;36*:au=00;36*:flac=00;36*:m4a=00;36*:mid=00;36*:midi=00;36*:mka=00;36*:mp3=00;36*:mpc=00;36*:ogg=00;36*:ra=00
```

```
;36*:wav=00;36*:oga=00;36*:opus=00;36*:spx=00;36*:xspf=00;36:
```

```
XDG_CURRENT_DESKTOP=GNOME
```

```
VTE_VERSION=0800
```

```
WAYLAND_DISPLAY=wayland-0
```

```
GNOME_TERMINAL_SCREEN=/org/gnome/Terminal/screen/50534a59_277c_4ca3_ac61_30b43a2a8c3f
```

```
GNOME_SETUP_DISPLAY=:1
```

```
LESSCLOSE=/usr/bin/lesspipe %s %s
```

```
XDG_SESSION_CLASS=user
```

```
Uçbirim ~-256color
```

```
Uçbirim _| /usr/bin/lesspipe %s
```

```
USER=mehmet
```

```
GNOME_TERMINAL_SERVICE=:1.133
```

```
DISPLAY=:0
```

```
SHLVL=1
```

```
QT_IM_MODULE=ibus
```

```
XDG_RUNTIME_DIR=/run/user/1000
```

```
XDG_DATA_DIRS=/usr/share/ubuntu:/usr/local/share/:/usr/share/:/var/lib/snapd/desktop
```

```
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin:/usr/games:/usr/local/games:/snap/bin:/snap/bin
```

```
GDMSESSION=ubuntu
```

```
DBUS_SESSION_BUS_ADDRESS=unix:path=/run/user/1000/bus
```

```
=/usr/bin/env
```

```
OLDPWD=/home/mehmet
```

```
mehmet@mehmet-VirtualBox: /etc$
```

```
mehmet@mehmet-VirtualBox: ~
```

```
Ubuntu Linux [Çalışıyor] - Oracle VM VirtualBox
```

```
Dosya Makine Görünüm Giriş Aygıtlar Yardım
```

```
Etkinlikler Uçbirim 18 Eki 21:15
```

```
SYSTEMD_EXEC_PID=900
```

```
XAUTHORITY=/run/user/1000/.mutter-Xwaylandauth.OFWJD2
```

```
HOME=/home/mehmet
```

```
USERNAME=mehmet
```

```
IM_CONFIG_PHASE=1
```

```
LANG=tr_TR.UTF-8
```

```
LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33:01:cd=40;33:01:or=40;31:01:mi=00:su=37;41:sg=30;43:ca=30;
```

```
41:tw=30;42:ow=34;42:s=37;44:ex=01;32*:tar=01;31*:tgz=01;31*:arc=01;31*:arj=01;31*:taz=01;31*:lha=01;31*:lzh=01;
```

```
31*:lzo=01;31*:xz=01;31*:txz=01;31*:tzo=01;31*:tz=01;31*:zip=01;31*:z=01;31*:dz=01;31*:gz=01;31*:lrz=01;31*:lz=01;31*
```

```
.lzo=01;31*:xz=01;31*:zst=01;31*:tzst=01;31*:bz2=01;31*:bz=01;31*:tbz=01;31*:tbz2=01;31*:tz=01;31*:deb=01;31*:rpm=01;31*
```

```
:jar=01;31*:war=01;31*:ear=01;31*:sar=01;31*:rar=01;31*:alz=01;31*:ace=01;31*:zoo=01;31*:cpio=01;31*:7z=01;31*:rz=01;31*:c
```

```
ab=01;31*:wim=01;31*:swm=01;31*:dwm=01;31*:esd=01;31*:jpg=01;35*:jpeg=01;35*:mjpg=01;35*:gif=01;35*:bmp=01;35
```

```
*:pbm=01;35*:pgn=01;35*:ppm=01;35*:xbm=01;35*:xpm=01;35*:tif=01;35*:tiff=01;35*:png=01;35*:svg=01;35*:svga=01;35*
```

```
:35*:mng=01;35*:pcx=01;35*:mov=01;35*:mpg=01;35*:mpeg=01;35*:m2v=01;35*:mkv=01;35*:webm=01;35*:ogg=01;35*:mp4=
```

```
01;35*:m4v=01;35*:mp4v=01;35*:vob=01;35*:qt=01;35*:nuv=01;35*:wmv=01;35*:ASF=01;35*:rm=01;35*:rmb=01;35*:flc=01;35*:avf=
```

```
01;35*:fli=01;35*:flv=01;35*:gl=01;35*:dl=01;35*:xcf=01;35*:xwd=01;35*:yuv=01;35*:cgm=01;35*:emf=01;35*:ogv=01;35*:ogx=01
```

```
;35*:aac=00;36*:au=00;36*:flac=00;36*:m4a=00;36*:mid=00;36*:midi=00;36*:mka=00;36*:mp3=00;36*:mpc=00;36*:ogg=00;36*:ra=00
```

```
;36*:wav=00;36*:oga=00;36*:opus=00;36*:spx=00;36*:xspf=00;36:
```

```
XDG_CURRENT_DESKTOP=GNOME
```

```
VTE_VERSION=0800
```

```
WAYLAND_DISPLAY=wayland-0
```

```
GNOME_TERMINAL_SCREEN=/org/gnome/Terminal/screen/50534a59_277c_4ca3_ac61_30b43a2a8c3f
```

```
GNOME_SETUP_DISPLAY=:1
```

```
LESSCLOSE=/usr/bin/lesspipe %s %s
```

```
XDG_SESSION_CLASS=user
```

```
Uçbirim ~-256color
```

```
Uçbirim _| /usr/bin/lesspipe %s
```

```
USER=mehmet
```

```
GNOME_TERMINAL_SERVICE=:1.133
```

```
DISPLAY=:0
```

```
SHLVL=1
```

```
QT_IM_MODULE=ibus
```

```
XDG_RUNTIME_DIR=/run/user/1000
```

```
XDG_DATA_DIRS=/usr/share/ubuntu:/usr/local/share/:/usr/share/:/var/lib/snapd/desktop
```

```
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin:/usr/games:/usr/local/games:/snap/bin:/snap/bin
```

```
GDMSESSION=ubuntu
```

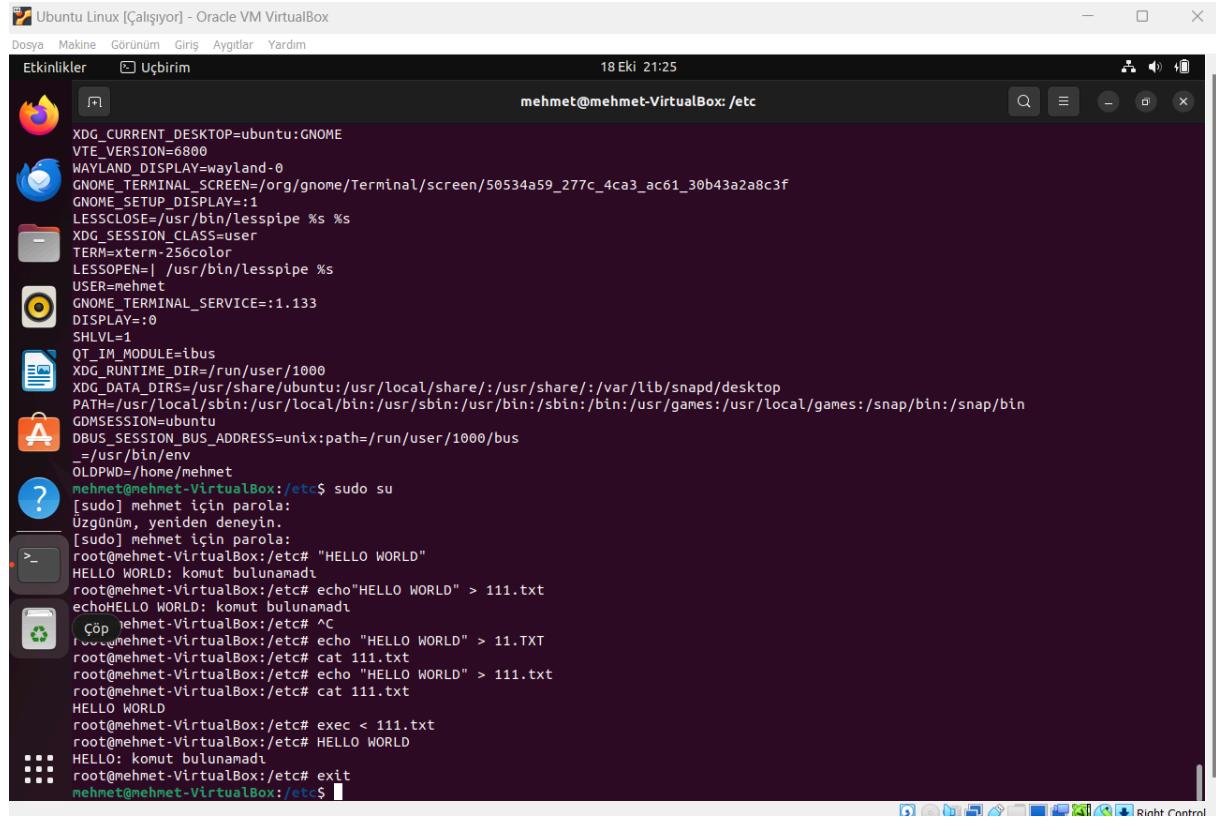
```
DBUS_SESSION_BUS_ADDRESS=unix:path=/run/user/1000/bus
```

```
=/usr/bin/env
```

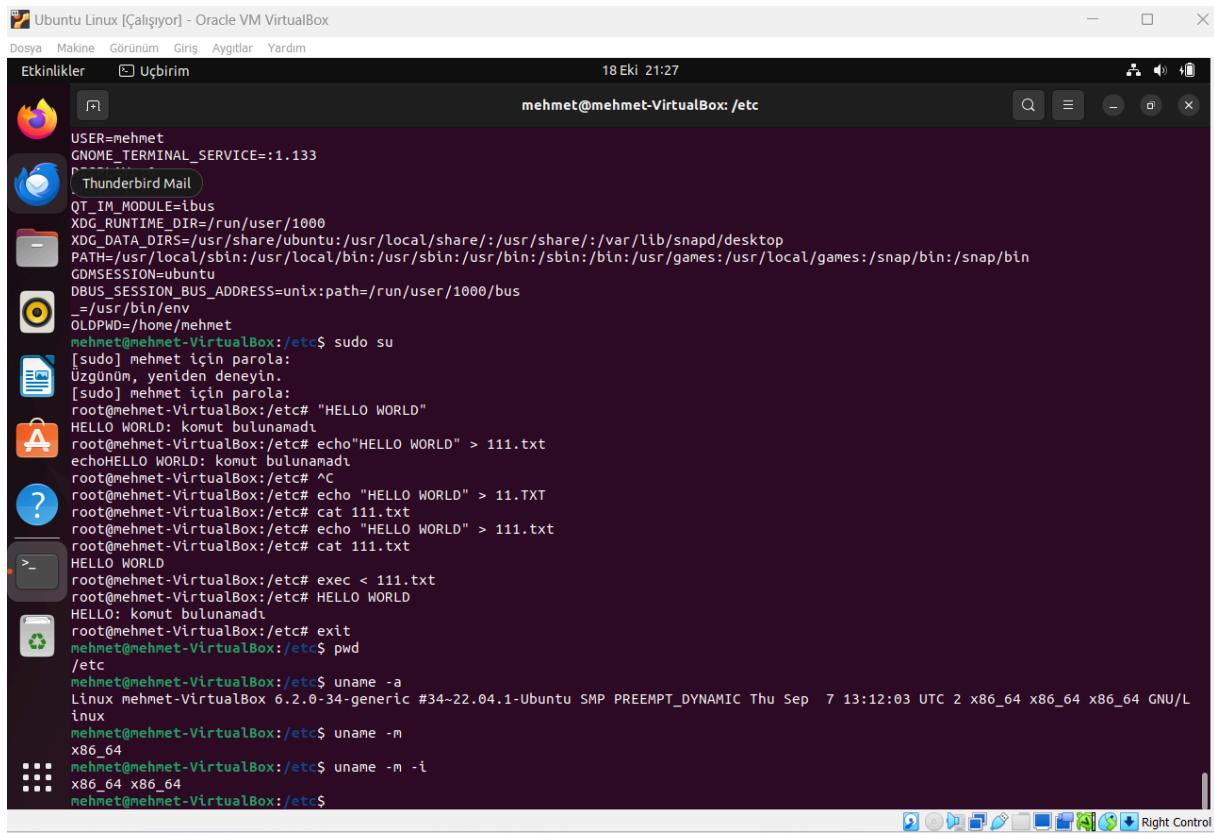
```
OLDPWD=/home/mehmet
```

```
mehmet@mehmet-VirtualBox: /etc$
```

HELLO WORD



Here we check the current directory using `pwd`, `uname` for OS and hardware system details, `-a` for every information , `-m` for machine architecture and `-i` for hardware system



The screenshot shows a terminal window titled "Ubuntu Linux [Çalışıyor] - Oracle VM VirtualBox". The terminal session is running as user "mehmet" on the "/etc" directory. The terminal window includes a title bar with the application name, file menu, and system status. The main area displays a command-line interface with various system configuration and testing commands.

```
USER=mehmet
GNOME_TERMINAL_SERVICE=:1.133
Thunderbird Mail
QT_IM_MODULE=ibus
XDG_RUNTIME_DIR=/run/user/1000
XDG_DATA_DIRS=/usr/share/ubuntu:/usr/local/share/:/var/lib/snap/desktop
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin:/usr/games:/usr/local/games:/snap/bin
GDMSESSION=ubuntu
DBUS_SESSION_BUS_ADDRESS=unix:path=/run/user/1000/bus
OLDPWD=/home/mehmet
mehmet@mehmet-VirtualBox:~/etc$ sudo su
[sudo] mehmet için parola:
Üzgünüm, yeniden deneyin.
[sudo] mehmet için parola:
root@mehmet-VirtualBox:~/etc# "HELLO WORLD"
HELLO WORLD: komut bulunamadı
root@mehmet-VirtualBox:~/etc# echo "HELLO WORLD" > 111.txt
echoHELLO WORLD: komut bulunamadı
root@mehmet-VirtualBox:~/etc# ^C
root@mehmet-VirtualBox:~/etc# echo "HELLO WORLD" > 111.txt
root@mehmet-VirtualBox:~/etc# cat 111.txt
root@mehmet-VirtualBox:~/etc# echo "HELLO WORLD" > 111.txt
root@mehmet-VirtualBox:~/etc# cat 111.txt
HELLO WORLD
root@mehmet-VirtualBox:~/etc# exec < 111.txt
root@mehmet-VirtualBox:~/etc# HELLO WORLD
HELLO: komut bulunamadı
root@mehmet-VirtualBox:~/etc# exit
mehmet@mehmet-VirtualBox:~/etc$ pwd
/etc
mehmet@mehmet-VirtualBox:~/etc$ uname -a
Linux mehmet-VirtualBox 6.2.0-34-generic #34~22.04.1-Ubuntu SMP PREEMPT_DYNAMIC Thu Sep 7 13:12:03 UTC 2 x86_64 x86_64 x86_64 GNU/Linux
mehmet@mehmet-VirtualBox:~/etc$ uname -m
x86_64
mehmet@mehmet-VirtualBox:~/etc$ uname -m -i
x86_64 x86_64
mehmet@mehmet-VirtualBox:~/etc$
```

Here we check the date and perform few commands like changing the structure, TIMEZONE, setting 2 days ahead , -UNIVERSAL TIME, Week of the year and epoch date

Ubuntu Linux [Çalışıyor] - Oracle VM VirtualBox

Dosya Makine Görünüm Giriş Aygıtlar Yardım

Etkinlikler Uçbirim 18 Eki 21:39

mehmet@mehmet-VirtualBox: /etc\$ pwd
/etc

mehmet@mehmet-VirtualBox: /etc\$ uname -a
Linux mehmet-VirtualBox 6.2.0-34-generic #34~22.04.1-Ubuntu SMP PREEMPT_DYNAMIC Thu Sep 7 13:12:03 UTC 2 x86_64 x86_64 x86_64 GNU/Linu

mehmet@mehmet-VirtualBox: /etc\$ uname -m
x86_64

mehmet@mehmet-VirtualBox: /etc\$ uname -m -i
x86_64 x86_64

mehmet@mehmet-VirtualBox: /etc\$ date
Çrş 18 Eki 2023 21:28:03 +03

mehmet@mehmet-VirtualBox: /etc\$ date --date=" 2 month ago"
Cum 18 Ağustos 2023 21:28:03 +03

mehmet@mehmet-VirtualBox: /etc\$ date +"%Y-%m-%d %H:%M:%S"
2023-10-18 21:10:16

mehmet@mehmet-VirtualBox: /etc\$ TZ=" TURKEY/NEW DELHI" date
Çrş 18 Eki 2023 18:31:02

mehmet@mehmet-VirtualBox: /etc\$ date --set="+2 days"

mehmet@mehmet-VirtualBox: /etc\$ date --set="+2days"
date: tarih ayarlanamadı: İşleme izin verilmedi

Cum 20 Eki 2023 21:33:35 +03

mehmet@mehmet-VirtualBox: /etc\$ date --set="+2 days"
> ^C

mehmet@mehmet-VirtualBox: /etc\$ date --set="+2 days"
date: tarih ayarlanamadı: İşleme izin verilmedi

Cum 20 Eki 2023 21:36:58 +03

mehmet@mehmet-VirtualBox: /etc\$ sudo date --set="-2 days"
[sudo] mehmet için parola:

date: geçersiz tarih 'set=-2 days'

mehmet@mehmet-VirtualBox: /etc\$ sudo date --set="-2days"

Pzt 16 Eki 2023 21:38:35 +03

mehmet@mehmet-VirtualBox: /etc\$ date -u
Çrş 18 Eki 2023 18:38:46 UTC

mehmet@mehmet-VirtualBox: /etc\$ date +%U
42

mehmet@mehmet-VirtualBox: /etc\$ date +%

1697654364

mehmet@mehmet-VirtualBox: /etc\$

ID AND TIME

The image shows two terminal windows side-by-side, both titled "Ubuntu Linux [Çalışıyor] - Oracle VM VirtualBox". The top window is titled "Etkinlikler" and the bottom window is titled "Uçbirim". Both windows show a terminal session with the command "mehmet@mehmet-VirtualBox: /etc\$".

The terminal output displays the results of the "id" and "time ls" commands:

```
mehmet@mehmet-VirtualBox: /etc$ id
uid=1000(mehmet) gid=1000(mehmet) grupper=1000(mehmet),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),122(lpadmin),135(lxd),136(samba
share)

mehmet@mehmet-VirtualBox: /etc$ time ls
11.txt      dconf      hostname    magic.mime   profile.d    sudoers
11.TXT      debconf    hosts       mailcap     protocols   sudoers.d
acpi        default    hosts.allow  mailcap.order pulse
adduser.conf deluser.conf hp          manpath.config python3
alsa        depmod.d   init       ModemManager protocols
alternatives dhcpc      ifplugd    mke2fs.conf  rc0.d
anacrontab  dictionaries-common init.d    modprobe.d  rc1.d
apg.conf    e2scrub.conf inputrc    modules     rc2.d
apparmor   emacs      insserv.conf.d mtab      rc3.d
apparmor.d  e2scrub.conf iproute2   netconfig   rc4.d
apport      environment  issue.net  netplan     rc5.d
appstream.conf environment.d kernel     network     rc6.d
apt         ethertypes  issue.net  networkd-dispatcher resolv.conf
avahi       firefox    kernel-img.conf NetworkManager rsyslog.conf
bash.bashrc fonts      kernel.loops.conf networks   sane.d
bash_completion fuse.conf  libao.conf  os-release  security
bash_completion.d  fprintd.conf libaudit.conf Packagekit
bindresvport.blacklist  fsstab     libblockdev pam.conf
bluetooth   gdb       ld.so.cache libnlp-3    pam.d
brlapl.key  gdm3      ld.so.conf   libnlp-3    pam.d
britty.conf geoclue   libao.conf  libpaper.d papersize
ca-certificates ghostscript libaudit.conf libpam     passwd
ca-certificates.conf  gvldn     libblockdev libpam     passwd-
dpkg-old    gnome     libnlp-3    libreoffice  locale.alias
chatscripts  groff    libpam     logcheck    locale.gen
console-setup group    libnlp-3    logcheck    localtime
cracklib   grub.d   libpam     login.defs  perl
cron.d      gshadow   libnlp-3    logrotate.conf pm
cron.daily  gshadow-  libpam     logrotate.conf pm2ppa.conf
cron.hourly gss       libnlp-3    logrotate.d polkit-1
cron.monthly gshadow-  libpam     logrotate.conf polkit-1
cron.weekly  gtk-2.0  libnlp-3    logrotate.d polkit-1
crontab    gtk-3.0   libnlp-3    logrotate.conf pm
host.conf  hdparm.conf libpam     logrotate.d polkit-1
hostid     host.conf  libnlp-3    logrotate.d polkit-1
magic      machine-id libpam     logrotate.d polkit-1
profile    printcap   libnlp-3    logrotate.d polkit-1
profile.d  sudo.conf  libnlp-3    logrotate.d polkit-1

real    0m0.006s
user    0m0.000s
sys     0m0.007s
mehmet@mehmet-VirtualBox: /etc$
```

The "time ls" command output shows the execution times for each file. The top window shows times from 11.txt to profile.d, while the bottom window shows times from real to sudo.conf.

HISTORY



```
real    0m0.006s
user    0m0.000s
sys     0m0.007s
nehmet@nehmet-VirtualBox:/etc$ history 8
42 sudo date --set="-2days"
43 date -u
44 date +%U
45 date +%s
46 id
47 id
48 time ls
49 history 8
nehmet@nehmet-VirtualBox:/etc$
```

CONCLUSION:

In conclusion, we performed the tasks as mentioned in the laboratory work 2. We run the commands and use special characters to see various results, the screenshots above show all the actions performed by me in my Virtual Machine. This lab task involved the successful deployment of a virtualized environment using the Universal Type-2 Hypervisor (UTM) and the subsequent installation of the Ubuntu 22.04 Linux distribution on a virtual machine within UTM. By following the provided steps, I demonstrated that there are multiple paths to achieving the same objective. This exercise reinforced the importance of adaptability in IT, as it showcased the ability to leverage different virtualization tools to create isolated environments for experimentation and software testing. The usage of commands like process commands: env, export, who, path, alias, bind, cd, dirs, echo, enable, history, man, pwd, date, uname were seen.