

# Temel Unix Komutları

**ls** : Dosya ve dizinleri listeler.

Örnek: **ls -l** (uzun formatta listeler), **ls -a** (gizli dosyaları da listeler)

```
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music            ros_catkin_ws
Documents         Pictures
Downloads        Public
```

```
clas0512@Adems-MBP ~ % ls -la
total 120
drwxr-xr-x+ 32 clas0512 staff 1024 Sep 27 14:17 .
drwxr-xr-x  6 root    admin 192 Sep 13 21:37 ..
-rw-r--r--  1 clas0512 staff   7 Sep 13 21:49 .CPUTextEncoding
-rw-r--r--  1 clas0512 staff 10244 Sep 23 23:45 .DS_Store
drwxr-xr-x+  2 clas0512 staff   64 Sep 27 14:15 .Trash
drwxr-xr-x@ 12 clas0512 staff 384 Sep 16 18:42 .arduinoIDE
-rw-r--r--  1 clas0512 staff 594 Sep 25 15:43 .bash_history
drwxr-xr-x@  4 clas0512 staff 128 Sep 19 21:19 .config
-rw-r--r--  1 clas0512 staff  20 Sep 25 14:39 .lessht
drwxr-xr-x@  4 clas0512 staff 128 Sep 26 20:27 .pyenv
drwxr-xr-x@  6 clas0512 staff 192 Sep 14 11:33 .ssh
-rw-r--r--  1 clas0512 staff 8488 Sep 26 21:13 .viminfo
-rw-r--r--  1 clas0512 staff  48 Sep 26 18:48 .vscode
```

**cd** : Dizinleri değiştirir.

Örnek: **cd /home/kullanici/** (kullanıcı dizinine geçer).

```
ssh
clas0512@Adems-MBP ~ % pwd
/Users/clas0512
clas0512@Adems-MBP ~ % cd Desktop
clas0512@Adems-MBP Desktop % pwd
/Users/clas0512/Desktop
clas0512@Adems-MBP Desktop % cd ..
clas0512@Adems-MBP ~ % pwd
/Users/clas0512
clas0512@Adems-MBP ~ %
```

**pwd** : Şu anki çalışma dizininin tam yolunu gösterir.

**mkdir** : Yeni bir dizin oluşturur.

Örnek: **mkdir yeni\_dizin.**

```
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music            ros_catkin_ws
Documents         Pictures
Downloads        Public
clas0512@Adems-MBP ~ % mkdir try
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music            ros_catkin_ws
Documents         Pictures          try
Downloads        Public
```

**rmdir** : Boş bir dizini siler.

Örnek: **rmdir eski\_dizin.**

```
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music            ros_catkin_ws
Documents         Pictures          try
Downloads        Public
clas0512@Adems-MBP ~ % rmdir try
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music            ros_catkin_ws
Documents         Pictures
Downloads        Public
```

**touch** : Yeni bir dosya oluşturur veya dosyanın tarihini günceller.

Örnek: **touch yeni\_dosya.txt.**

```
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music            ros_catkin_ws
Documents         Pictures
Downloads        Public
clas0512@Adems-MBP ~ % touch try.txt
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music            ros_catkin_ws
Documents         Pictures          try.txt
Downloads        Public
```

`cp` : Dosyaları kopyalar.

Örnek: `cp dosya1 dosya2` (dosya1'i dosya2 olarak kopyalar).

```
-zsh
clas0512@Adems-MBP ~ % echo "YTU RACING AUTONOMOUS 0" > try.txt
clas0512@Adems-MBP ~ % cat try.txt
YTU RACING AUTONOMOUS 0
clas0512@Adems-MBP ~ % cp try.txt catch.txt
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           catch.txt
Desktop           Music            downloadtemp
Documents         Pictures         ros_catkin_ws
Downloads         Public           try.txt
clas0512@Adems-MBP ~ % cat catch.txt
YTU RACING AUTONOMOUS 0
```

`mv` : Dosyaları taşır veya yeniden adlandırır.

Örnek: `mv eski_dosya.txt yeni_dizin/` (dosyayı yeni dizine taşır).

```
-zsh
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           catch.txt
Desktop           Music            downloadtemp
Documents         Pictures         ros_catkin_ws
Downloads         Public           try.txt
clas0512@Adems-MBP ~ % mv try.txt exception.txt
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           catch.txt
Desktop           Music            downloadtemp
Documents         Pictures         exception.txt
Downloads         Public           ros_catkin_ws
```

`rm` : Dosyaları veya dizinleri siler.

Örnek: `rm dosya.txt`, `rm -r dizin/` (dizin ve içeriğini siler).

```
-zsh
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           catch.txt
Desktop           Music            downloadtemp
Documents         Pictures         exception.txt
Downloads         Public           ros_catkin_ws
clas0512@Adems-MBP ~ % rm catch.txt
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music            exception.txt
Documents         Pictures         ros_catkin_ws
Downloads         Public
```

`cat` : Dosya içeriğini gösterir veya dosyaları birleştirir.

Örnek: `cat dosya.txt`.

```
-zsh
clas0512@Adems-MBP ~ % cat exception.txt
YTU RACING AUTONOMOUS 0
clas0512@Adems-MBP ~ %
```

`grep` : Belirli bir metni dosyalarda veya çıktılarda arar.

Örnek: `grep "kelime" dosya.txt`.

```
-zsh
clas0512@Adems-MBP ~ % ls | grep "M"
Movies
Music
clas0512@Adems-MBP ~ %
```

echo : Metni ekrana yazdırır veya dosyalara yazar.  
Örnek: echo "Merhaba, Dünya!" > dosya.txt (dosyaya yazdırır).

```
-zsh
clas0512@Adems-MBP ~ % echo "HELLO WORLD"
HELLO WORLD
clas0512@Adems-MBP ~ %
```

chmod: Dosya izinlerini değiştirir.  
Örnek: chmod +x dosya (çalıştırılabilir yapar).

```
-zsh
clas0512@Adems-MBP ~ % ls -l exception.txt
-rw-r--r-- 1 clas0512 staff 24 Sep 27 14:27 exception.txt
clas0512@Adems-MBP ~ % chmod 777 exception.txt
clas0512@Adems-MBP ~ % ls -l exception.txt
-rwxrwxrwx 1 clas0512 staff 24 Sep 27 14:27 exception.txt
clas0512@Adems-MBP ~ %
```

ps: Çalışan süreçleri listeler.  
Örnek: ps aux (tüm süreçleri gösterir).

```
-zsh
clas0512@Adems-MBP ~ % ps
  PID TTY          TIME CMD
 1937 ttys001  0:00.02 /bin/zsh -il
 2663 ttys002  0:00.31 -zsh
clas0512@Adems-MBP ~ % ps aux
USER          PID  %CPU  %MEM    VSZ   RSS  TT  STAT STARTED      TIME COMMAND
clas0512      1588   36.2   4.1 1601646064 344544  ??  S    1:32PM  28:46.86 /Applications/Discord.app/Contents/Frameworks/Discord Helper (K
e
windowserver  367   26.2   1.0 411807040 83888  ??  Ss   11:47AM  30:23.72 /System/Library/PrivateFrameworks/SkyLight.Framework/Resources/W
clas0512     1580    8.0   0.6 400812848 48480  ??  S    1:32PM  7:09.06 /Applications/Discord.app/Contents/Frameworks/Discord Helper (GP
_coreaudiod   391    6.9   0.2 409697120 17104  ??  Ss   11:47AM  7:25.09 /usr/sbin/coreaudiod
_cmiadoassistants 508    6.5   0.1 408279952 8448  ??  Ss   11:47AM  5:00.25 /usr/sbin/applh13camerad
clas0512     2659    6.1   1.0 410120384 86432  ??  S    2:17PM  0:49.10 /Applications/iTerm.app/Contents/MacOS/iTerm2
clas0512     2361    4.0   2.6 410420736 218272  ??  S    2:02PM  3:41.44 /Applications/Adobe Acrobat DC/Adobe Acrobat.app/Contents/MacOS/
clas0512     1656    1.6   0.1 409258992 9504  ??  Ss   1:38PM  1:15.73 /System/Library/Frameworks/VideoToolbox.Framework/Versions/A/XPC
clas0512     3262    1.5   0.3 408214996 27664  ??  S    2:45PM  0:00.12 /System/Library/Frameworks/CoreServices.Framework/Frameworks/Met
clas0512     1637    1.3   0.1 408916816 11648  ??  Ss   1:34PM  1:23.82 /System/Library/Frameworks/VideoToolbox.Framework/Versions/A/XPC
clas0512     2378    1.2   0.1 410019776 10176  ??  S    2:03PM  0:43.06 /Applications/Adobe Acrobat DC/Adobe Acrobat.app/Contents/Framework
clas0512      897    1.2   1.3 410371440 106080  ??  S    11:47AM  1:48.85 /Applications/Spotify.app/Contents/MacOS/Spotify --autostart
```

kill: Bir süreci sonlandırır.  
Örnek: kill PID (PID, sürecin kimlik numarasıdır).

```
-zsh
clas0512@Adems-MBP ~ % ps
  PID TTY          TIME CMD
 1937 ttys001  0:00.02 /bin/zsh -il
 3429 ttys002  0:00.05 -zsh
 3551 ttys003  0:00.02 -zsh
clas0512@Adems-MBP ~ % kill 3551
clas0512@Adems-MBP ~ % ps
  PID TTY          TIME CMD
 1937 ttys001  0:00.02 /bin/zsh -il
 3429 ttys002  0:00.05 -zsh
 3551 ttys003  0:00.02 -zsh
clas0512@Adems-MBP ~ % kill -9 3551
clas0512@Adems-MBP ~ % ps
  PID TTY          TIME CMD
 1937 ttys001  0:00.02 /bin/zsh -il
 3429 ttys002  0:00.05 -zsh
```

*force* (handwritten red text with an arrow pointing to the kill command)

ssh: Uzak bir sunucuya bağlanır.

```
ssh
clas0512@Adems-MBP ~ % ssh clas0512@localhost
(clas0512@localhost) Password:
Last login: Wed Sep 27 16:19:22 2023 from ::1
.
..
...
clas0512@Adems-MBP ~ % exit
Connection to localhost closed.
clas0512@Adems-MBP ~ %
```

tar: Dosyaları sıkıştırır veya arşivler.

Örnek: tar -czvf arşiv.tar.gz dosya1 dosya2 (dosyaları sıkıştırır ve arşivler).

```
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music            exception.txt
Documents         Pictures         ros_catkin_ws
Downloads         Public          try.txt
clas0512@Adems-MBP ~ % tar -cf try.tar try.txt
clas0512@Adems-MBP ~ % ls
Applications      Movies           exception.txt
Creative Cloud Files  Music          ros_catkin_ws
Desktop           Pictures        try.tar
Documents         Public         try.txt
Downloads         Qt             try.txt
Library          downloadtemp
clas0512@Adems-MBP ~ % tar -czvf tryAndExcp.tar.gz try.txt exception.txt
a try.txt
a exception.txt
clas0512@Adems-MBP ~ % ls
Applications      Movies           exception.txt
Creative Cloud Files  Music          ros_catkin_ws
Desktop           Pictures        try.tar
Documents         Public         try.txt
Downloads         Qt             tryAndExcp.tar.gz
Library          downloadtemp
clas0512@Adems-MBP ~ %
```

df: Dosya sistemi kullanımını gösterir.

```
clas0512@Adems-MBP ~ % df
Filesystem      512-blocks    Used Available Capacity  iused   ifree %used    Mounted on
/dev/disk3s1s1  478724992    17902840  32323568    36%    356050 161617840    0%    /
devfs           397          397         0    100%    688      0    100%    /dev
/dev/disk3s6    478724992    2097320    32323568     7%      1 161617840    0%    /System/Volumes/VM
/dev/disk3s2    478724992    9939136    32323568    24%    1008 161617840    0%    /System/Volumes/Preboot
/dev/disk3s4    478724992     4776     32323568     1%     44 161617840    0%    /System/Volumes/Update
/dev/disk1s2    1024000     12328     988176     2%      1  4940880    0%    /System/Volumes/xarts
/dev/disk1s1    1024000     12592     988176     2%     23  4940880    0%    /System/Volumes/iSCPreboot
/dev/disk1s3    1024000     1184     988176     1%     50  4940880    0%    /System/Volumes/Hardware
/dev/disk3s5    478724992  414626200  32323568    93%   2102555 161617840    1%    /System/Volumes/Data
map auto_home      0           0         0    100%      0      0    100%    /System/Volumes/Data/home
```

du: Dizin veya dosyaların disk kullanımını gösterir.

```
clas0512@Adems-MBP ~ % du
0      ./ros_catkin_ws/src/test/include/test
0      ./ros_catkin_ws/src/test/include
0      ./ros_catkin_ws/src/test/src
24     ./ros_catkin_ws/src/test
32     ./ros_catkin_ws/src
32     ./ros_catkin_ws
0      ./config/iterm2
14272  ./config/StardewValley/Saves/PembeBoklar_347484926
13808  ./config/StardewValley/Saves/abena_347269033
28088  ./config/StardewValley/Saves
28120  ./config/StardewValley
28120  ./config
1960   ./Music/Audio Music Apps/Databases/Tags
16544  ./Music/Audio Music Apps/Databases
0      ./Music/Audio Music Apps/Temp
0      ./Music/Audio Music Apps/Patches/Instrument
0      ./Music/Audio Music Apps/Patches/Output
0      ./Music/Audio Music Apps/Patches/Audio
0      ./Music/Audio Music Apps/Patches
0      ./Music/Audio Music Apps/Key Commands
0      ./Music/Audio Music Apps/Channel Strip Settings/Track
0      ./Music/Audio Music Apps/Channel Strip Settings/Instrument
0      ./Music/Audio Music Apps/Channel Strip Settings/Output
0      ./Music/Audio Music Apps/Channel Strip Settings
```







