

# sed

????

- <http://www.tecmint.com/linux-sed-command-tips-tricks/>
- <https://www.cyberciti.biz/faq/how-to-use-sed-to-find-and-replace-text-in-files-in-linux-unix-shell/>
- [Complete Sed Command Guide](#)
- [Sed - An Introduction and Tutorial by Bruce Barnett](#)
- [Learn to use the Sed text editor](#)
- [THE SED FAQ](#)
- [Useful sed](#)
- [sed ????](#)

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????? / ?????? @ , | , %

**“Tip: ??????????????????????????????????”**

For `s` command

```
# /usr/bin → local → /usr/bin/local
sed 's@/usr/bin@&/local@g' path.txt
```

Other command

```
# [ ][ ][ ][ ][ ][ ][ ][ ][ ]
echo $PATH | sed -n '\@/usr/local/sbin@p'
```

??????

```
# [ ] [ ]  
sed '/^#\|^$|^ *#/d' my.conf
```

```
# 删除文件
sed 's/#.*//' file.txt
```

```
# 替换: 将 1 替换为 Linux 或 Unix
sed 's/Linux/Unix/' linuxdeck.txt
# 替换: 将 1 替换为 Linux 或 Unix (正则表达式)
sed 's/Linux/Unix/i' linuxdeck.txt
```

```
# 替换: 将 2 替换为 Linux 或 Unix
sed 's/Linux/Unix/2' linuxdeck.txt
# 替换: 将 1 替换为 Linux 或 Unix
sed '2 s/Linux/Unix/' linuxdeck.txt
# 替换: 将 Linux 替换为 Unix
sed 's/Linux/Unix/g' linuxdeck.txt
```

```
# 打印: 打印
sed -n p linuxdeck.txt
# 打印: 打印 2-4 行
sed -n '2,4p' linuxdeck.txt
# 打印: 打印 2-4 行
sed '2,4d' linuxdeck.txt
# 打印: 打印 2-3, 5-6 行
sed -n -e '2,3p' -e '5,6p' linuxdeck.txt
# 打印: 打印 operating 行
sed -n /operating/p linuxdeck.txt
```

```
# 删除文件
sed G linuxdeck.txt
# 删除文件
sed '/^#/G' file.txt
```

??????

```
# 打印 100 行
# 打印 p 行 d 行
sed -n '100,$p' my.txt
```

```
# 打印 3 行
sed '3q' my.txt
```

```
# 130 行
sed -n '130{p;q}' my.txt

# 100 - 130 行
sed -n '100,130p' my.txt
sed -n '100,130p;130q' my.txt

# all 行
sed -n '/all/, $p' my.txt

# start 行
sed '/start/q' file.txt

# 10 行
sed -n '/keyword/,/^$/p'

# Top 行 Bottom 行
sed -n '/Top/,/Bottom/p'

# 10 行
sed -n "/PATTERN/p" my.txt
sed -n "/PATN1\\|PATN2\\|PATN3/p" my.txt
```

??????

```
# 10 行
sed '/^#/d'

# 10 行 # 10 行
sed '/^#\\|^$/d'
sed '/^#/d;/^$/d' # for AIX

# 10 行, ADMIN_ERP_ROLE, RPT01,...
sed '/ADMIN_ERP_ROLE/d;/RPT01/d'

# 10 行
sed '/^$/d'
sed '/^\\s*$/d'

# 42 行
```

```
sed 42d my.txt
```

```
# 删除
```

```
sed 's/[:space:]]//g' mywords
```

```
sed 's/^[ \t]*//;s/[ \t]*$//' mywords
```

```
sed 's/^[s*\|\\s*$//g' mywords
```

```
# 删除所有空格
```

```
sed 's/[:space:]]*$//'
```

```
# 删除 ^M (CR)
```

```
sed 's/^M//g' NOTE: to get ^M type CTRL+V followed by CTRL+M
```

```
sed 's/\r$//g'
```

```
# 删除 iXXXX, XXXX
```

```
sed '/^i[0-9]*d' mypasswd
```

```
# 删除
```

```
sed '$d' my.txt
```

## ?????/?????

```
# 2 删除 xxx
```

```
sed '2i xxx' my.txt
```

```
# 2 删除 yyy
```

```
sed '2a yyy' my.txt
```

```
# 删除 ****
```

```
sed '3 s/$/ ***/'
```

```
# 删除 newstring
```

```
sed '/pattern/a\nnewstring' my.txt
```

```
# 删除 #
```

```
sed 's/^\# /' my.txt
```

```
# 删除 End
```

```
sed 's/$/ End/' my.txt
```

```
# [10 characters], [5 characters] comma [2 characters]
```

```
sed "s/ \+/,/g"
```

```
# [5 characters]
```

```
sed 's/old/new/' mywords
```

```
sed 's|old|new|' mywords
```

```
# [5 characters] 'astlogdir =>' [10 characters] 'astlogdir => /mnt/usb/asterisk_log'
```

```
# .*$ [10 characters]
```

```
sed -i 's/astlogdir =>.*$/astlogdir => \mnt\usb\asterisk_log/g'
```

```
# [2 characters] 'none'[10 characters] '#'
```

```
sed 's/none/#&/g' mywords
```

```
# [3 characters] 'daemon' [10 characters] 3.txt [3 characters]
```

```
sed '/daemon/r 3.txt' mywords
```

```
sed '/INCLUDE/r foo.h' sample.c
```

```
# [4 characters] / \ & [6 characters]
```

```
sed 's/[V&]/\&/g' mywords
```

```
# [4 characters] 'daemon'[10 characters] 3.txt
```

```
sed -n '/daemon/w 3.txt' 1.txt
```

```
# [5 characters] 'root' [10 characters] 'test test'
```

```
[root@linux-3 ~]# sed '/root/a test test' 1.txt
```

```
root:x:0:0:root:/root:/bin/bash
```

```
test test
```

```
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
```

```
# [5 characters] 'daemon' [10 characters] 'test test'
```

```
[root@linux-3 ~]# sed '/^daemon/i test test' 1.txt
```

```
root:x:0:0:root:/root:/bin/bash
```

```
bin:x:1:1:bin:/bin:/sbin/nologin
```

```
test test
```

```
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
```

```
# [ ] [ ] 'ext3' [ ] [ ] [ ]
```

```
sed 's/ext3\+/\[&]/g' my.txt
```

```
# [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
```

```
sed -i 's/^\(User\|Group\).*\1 asterisk/' /etc/httpd/conf/httpd.conf
```

```
# [ ] [ ] [ ] [ ] revoke [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] & [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
```

```
sed 's/^revoke.*$&\;/' revoke_winieop.sql
```

```
# [ ] [ ] [ ] [ ] [ ] [ ] <<<STRING>>>. "^.*$" [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] & [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
```

```
sed 's@^.*$@<<<&>>>@g' path.txt
```

```
# [ ] /usr/bin [ ] [ ] local [ ] /usr/bin/local
```

```
sed 's@usr/bin@&/local@g' path.txt
```

```
?? *.sh ???????? #!/bin/bash
```

```
sed -i.bak '1i #!/bin/bash' edit.sh
```

??????

```
sed -e '/^#/d' -e '/^$/d'
```

??????????????

```
$ cat cookie.txt
```

```
xxxx FALSE / FALSE 0 PHPSESSID dbbr5nsmib9tgm0h97sbq8ovd0
```

```
$ cat cookie.txt | sed 's/^. *PHPSESSID[ \t]*//'
```

```
dbbr5nsmib9tgm0h97sbq8ovd0
```

??????????

?? 10.14.25.196 ? GA016E38 (Hex IP)

```
$ cat input.txt
```

```
GA160223.MAE3.219594040120
```

```
10.14.25.196.49611.200203080358
```

GA016E38.O5FA.259D81215343  
10.4.1.29.41266.200114031620  
GA12640A.M6EE.20EDC3093010

```
$ sed 's/^(.*)\.[A-Z0-9]*\.[A-Z0-9]*\1/' input.txt
```

GA160223  
10.14.25.196  
GA016E38  
10.4.1.29  
GA12640A

? CSV ?????????????? comma ??? @@ ?????????? comma ?????????????? comma  
??????????

```
sed 's/(,)\([^ ]\)/@@\2/g' orig.csv
```

“ s ??

\( \) \(\) ??????????

[^ ] ??????

\2 ??????????????????

g ?????????????????????????????????

?? A.AA B.BB C.CC 3 ??????????????????

```
sed 's/^\([0-9]\+\.[0-9]\+\) \([0-9]\+\.[0-9]\+\) \([0-9]\+\.[0-9]\+\).*$/1-minute: \1\n5-minute: \2\n15-minute: \3/g'  
/proc/loadavg
```

“ ^\([0-9]\+\.[0-9]\+\) \([0-9]\+\.[0-9]\+\) \([0-9]\+\.[0-9]\+\).\* \$ ????

1-minute: \1\n5-minute: \2\n15-minute: \3 ????

??/?? IP ??

```
sed -n '/\([0-9]\{1,3\}\.\.\{3\}[0-9]\{1,3\}/p' my.txt
```

????? mailbox = xxx ? mailbox = xxx@context

```
sed 's/^mailbox = [0-9]*/&@context/g' users.conf
```

??????? AllowOverride None

```
“ ??????????????  
<Directory "/var/www/html">  
...  
<Directory>
```

```
sed -i 's/a;N;$!ba;s/AllowOverride None/AllowOverride All/2' /etc/httpd/conf/httpd.conf
```

?? { } ????????

```
“ <br/> <b>Notice</b>: Undefined variable: sn in  
<b>/var/www/raida/service/fix.php</b> on line <b>259</b><br/>  
{"server":"RAIDA17","sn":"","status":"success","message":"Fixed: Unit's AN  
was changed to the PAN. Update your AN to the new PAN.","time":"2017-  
04-08 06:08:25"}
```

```
echo $( cat http_get.txt ) | sed 's/.* \({.*}\)$\1/'
```

?? [ ] ????

```
echo "[1070059:1,1070060:1,1070039:1]" | sed 's/^\([.*\])\)$\1/'
```

?????

```
# [ ]  
sed '/^$/!d'
```

```
# [ ] "2021-09-26-23.13.02.097806" [ ]  
sed '/^[0-9]\+-[0-9]\+-[0-9]\+-[0-9]\+.*$/!d'
```

```
# [] PATTERN1 + [] PATTERN2 + [] WORDS
```

```
sed '/PATTERN1/!s/PATTERN2/WORDS/g'
```

```
# []5[][],[] foo [] bar []
```

```
sed '5!/s/foo/bar/' file.txt
```

```
# [] start [] end []
```

```
sed -rn '/start/,/end/ !p' file.txt
```

????

```
# [][] Top [] Bottom []
```

```
sed -n '/Top/,/Bottom/p'
```

```
# [] start [] end []
```

```
sed -E '/start/,/end/ s/#.*//' file.txt
```

??????

??? 123456 ???? 123,456

```
echo "123456" | sed 's/(\^[^0-9.]\{0-9\}\+)([0-9]\{3\})\1\2,\3/g'
```

(W)elcome (T)o (T)he (G)eek (S)tuff

```
echo "Welcome To The Geek Stuff" | sed 's/(\b[A-Z])\1/g'
```

Get the list of usernames in /etc/passwd

```
sed 's/([^\:]*).*\1/' /etc/passwd
```

????

```
sed -n '\@/usr/local/bin@p' <<< $PATH
```

??????????

“ Tip: ( ) - + ???????????

groups

```
# domain users@winfoundry.com vdi_fc_it_std01@winfoundry.com pab_zwin_all2@winfoundry.com  
mis@winfoundry.com prtgs_r@winfoundry.com 1-3_vpn_it@winfoundry.com
```

```
groups | sed 's/\([a-z0-9_-\]\)+@winfoundry.com \)/\1\n/g'
```

```
#domain users@winfoundry.com  
#quota@winfoundry.com  
#it-w@winfoundry.com  
#iso 14001-r@winfoundry.com  
#mis@winfoundry.com  
#it@winfoundry.com  
#cqa_spc-r_old@winfoundry.com  
#fab_image-r@winfoundry.com  
#hp4155b@winfoundry.com  
#1-3_vpn_it@winfoundry.com
```

## Markdown ??

?? "? X ?" ??? Level 5 ??

```
# Search: **[] []**
```

```
# Replace: ##### [] [] []
```

```
sed 's/^\.*\([[] \.*\)\.*\.*$/##### \1/' markdown/[[] []].md
```

```
# Serch: **[[] []]**[[] []]
```

```
# Replace: ##### [[] [] [] [] [] [] [] []]
```

```
sed -i 's/^\.*\([[] []\)\.*\.*$/##### \1\2/' markdown/[[] []].md
```

?? "? X ?" ??? Level 6 ??

```
# Search: **[] 1 []**
```

```
# Replace: ##### [] 1 []
```

```
sed 's/^\.*\([[] \.*\)\.*\.*$/##### \1/' markdown/[[] []].md
```

????????

1

[illegible]

2

[illegible]

???

[illegible]

2 

```
sed 'N;s/^\([123456789]\)\n\1 /' markdown/[ ] [ ] [ ] [ ].md
```