

SED -STREAM EDITOR COMMAND

WHAT IS SED COMMAND?

SED command in UNIX stands for stream editor and it can perform lots of functions on file like searching, find and replace, insertion or deletion. Though most common use of SED command in UNIX is for substitution or for find and replace. By using SED, you can edit files even without opening them, which is much quicker way to find and replace something in file, than first opening that file in VI Editor and then changing it.

- SED is a powerful text stream editor. Can do insertion, deletion, search and replace(substitution).
- SED command in Unix supports regular expression which allows it perform complex pattern matching.

Syntax

sed OPTIONS... [SCRIPT] [INPUTFILE...]

COPY LINE USE SED COMMAND

```
[root@vivek home]# sed '2p' anaconda-ks.cfg
#version=RHEL8
ignoredisk --only-use=nvme0n1
ignoredisk --only-use=nvme0n1
autopart --type=lvm
# Partition clearing information
clearpart --none --initlabel
```

Specific line show to use command

```
[root@vivek home]# sed -n '2p' anaconda-ks.cfg
ignoredisk --only-use=nvme0n1
```

Show to last line in file

```
pwpolicy luks --minlen=6 --minquality=1 --notstrict --nochanges --notempty
%end
[root@vivek home]# sed -n '$p' anaconda-ks.cfg
%end
[root@vivek home]#
```

Show 2 to 6 lines in file

```
[root@vivek home]# sed -n '2,6p' anaconda-ks.cfg
ignoredisk --only-use=nvme0n1
autopart --type=lvm
# Partition clearing information
clearpart --none --initlabel
# Use graphical install
```

SED -STREAM EDITOR COMMAND

Replacing or substituting string

```
[root@vivek home]# cat test.txt
unix is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
[root@vivek home]# sed 's/unix/linux/' test.txt
linux is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
[root@vivek home]#
```

Replacing the nth occurrence of a pattern in a line

```
[root@vivek home]# cat test.txt
unix is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
[root@vivek home]# sed 's/unix/linux/2' test.txt
unix is great os. linux is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
unix is easy to learn.linux is a multiuser os.Learn unix .unix is a powerful.
[root@vivek home]#
```

Replacing all the occurrence of the pattern in a line

```
[root@vivek home]# cat test.txt
unix is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
[root@vivek home]# sed 's/unix/linux/g' test.txt
linux is great os. linux is opensource. linux is free os.
learn operating system.
linux linux which one you choose.
linux is easy to learn.linux is a multiuser os.Learn linux .linux is a powerful.
[root@vivek home]#
```

Replacing from nth occurrence to all occurrences in a line

```
[root@vivek home]# cat test.txt
unix is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
[root@vivek home]# sed 's/unix/linux/3g' test.txt
unix is great os. unix is opensource. linux is free os.
learn operating system.
linux linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn linux .linux is a powerful.
[root@vivek home]#
```

SED -STREAM EDITOR COMMAND

Parenthesize first character of each word

```
[root@vivek home]# echo "Welcome To The Vivek Gandhi" | sed 's/\(\b[A-Z]\)/\(\1\)/g'
(W)elcome (T)o (T)he (V)ivek (G)andhi
```

Deleting lines from a particular file

```
[root@vivek home]# cat test.txt
unix is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
[root@vivek home]# sed '4d' test.txt
unix is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
[root@vivek home]#
```

To Delete a last line

```
[root@vivek home]# cat test.txt
unix is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
[root@vivek home]# sed '$d' test.txt
unix is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
[root@vivek home]#
```

To Delete line from range x to y

```
[root@vivek home]# cat test.txt
unix is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
[root@vivek home]# sed '3,6d' test.txt
unix is great os. unix is opensource. unix is free os.
learn operating system.
[root@vivek home]#
```

To Delete from nth to last line

```
[root@vivek home]# cat test.txt
unix is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
[root@vivek home]# sed '2,$d' test.txt
unix is great os. unix is opensource. unix is free os.
[root@vivek home]#
```