GREP COMMAND

WHAT IS GREP COMMAND?

The grep filter searches a file for a particular pattern of characters, and displays all lines that contain that pattern. The pattern that is searched in the file is referred to as the regular expression (grep stands for global search for regular expression and print out).

SYNTAX
grep [options] pattern [files]

Grep sensitive search

```
[root@vivek ~]# grep  "network" anaconda-ks.cfg
network  --bootproto=dhcp --device=ens160 --ipv6=auto --activate
network  --hostname=localhost.localdomain
```

In Case insensitive search

```
[root@vivek ~]# grep -i  "NetWoRk" anaconda-ks.cfg
# Network information
network  --bootproto=dhcp --device=ens160 --ipv6=auto --activate
network  --hostname=localhost.localdomain
```

Displaying the count of number of matches

```
[root@vivek ~]# grep -ic "NetWoRk" anaconda-ks.cfg
3
[root@vivek ~]#
```

Display the file names that matches the pattern

```
[root@vivek ~]# ll
total 102408
-rw-r--r--. 1 root root 104857600 Feb 20 00:58 1
-rw-r--r--. 1 root root         0 Feb 20 01:19 1.txt
-rw-------. 1 root root      1387 Jan 20 06:45 anaconda-ks.cfg
-rw-r--r--. 1 root root      1542 Jan 20 06:48 initial-setup-ks.cfg
[root@vivek ~]# grep -l "network" *
anaconda-ks.cfg
initial-setup-ks.cfg
```

Checking for the whole words in a file

```
[root@vivek ~]# grep -iw "network" anaconda-ks.cfg
# Network information
network  --bootproto=dhcp --device=ens160 --ipv6=auto --activate
network  --hostname=localhost.localdomain
```

Displaying only the matched pattern

```
[root@vivek ~]# grep -io "network" anaconda-ks.cfg
Network
network
network
```

Show line number while displaying the output using grep -n

```
[root@vivek ~]# grep -in "network" anaconda-ks.cfg
15:# Network information
16:network  --bootproto=dhcp --device=ens160 --ipv6=auto --activate
17:network  --hostname=localhost.localdomain
```

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Inverting the pattern match

```
[root@vivek ~]# grep -iv "network" anaconda-ks.cfg
#version=RHEL8
ignoredisk --only-use=nvme0n1
autopart --type=lvm
# Partition clearing information
clearpart --none --initlabel
# Use graphical install
```

Matching the lines that start with a string

```
[root@vivek ~]# grep -i "^network" anaconda-ks.cfg
network  --bootproto=dhcp --device=ens160 --ipv6=auto --activate
network  --hostname=localhost.localdomain
[root@vivek ~]#
```

Print n specific lines from a file:

```
[root@vivek ~]# grep -A1 network anaconda-ks.cfg
network  --bootproto=dhcp --device=ens160 --ipv6=auto --activate
network  --hostname=localhost.localdomain
repo --name="AppStream" --baseurl=file:///run/install/repo/AppStream
```