

cat command

cat command is used to read the data from files.

and it is also used to create files with data input

SYNTAX:

#cat <operator> <file name> → create a file with data input

<text> <enter>

ctrl+d → to save and exit

#cat <file name> → read data of file

#cat -n <file name> → read file data with line no.

OPERATOR:

> single input redirector → overwrite

>> double input redirector → append

EG:

```
[root@server ~]# cat anaconda-ks.cfg → read the file
```

```
# Generated by Anaconda 34.25.0.29
```

```
# Generated by pykickstart v3.32
```

```
#version=RHEL9
```

```
# Use graphical install
```

```
graphical
```

```
repo --name="AppStream" --baseurl=file:///run/install/sources/mount-0000-cdrom/AppStream
```

```
%addon com_redhat_kdump --enable --reserve-mb='auto'
```

```
[root@server ~]#
```

```
[root@server ~]# cat -n anaconda-ks.cfg
```

```
1 # Generated by Anaconda 34.25.0.29
```

```
2 # Generated by pykickstart v3.32
```

```
3   #version=RHEL9
4   # Use graphical install
5   graphical
6   repo --name="AppStream" --baseurl=file:///run/install/sources/mount-0000-
cdrom/AppStream
7
8   %addon com_redhat_kdump --enable --reserve-mb='auto'
9
10  %end
11
12  # Keyboard layouts
13  keyboard --xlayouts='us'
```

```
[root@server ~]# cat /root/.bashrc
```

```
# .bashrc
```

```
# Source global definitions
```

```
if [ -f /etc/bashrc ]; then
```

```
    . /etc/bashrc
```

```
fi
```

```
# User specific environment
```

```
if ! [[ "$PATH" =~ "$HOME/.local/bin:$HOME/bin:" ]]
```

```
then
```

```
    PATH="$HOME/.local/bin:$HOME/bin:$PATH"
```

```
fi
```

```
export PATH
```

```
# Uncomment the following line if you don't like systemctl's auto-paging feature:
```

```
# export SYSTEMD_PAGER=
```

User specific aliases and functions

alias rm='rm -i'

alias cp='cp -i'

alias mv='mv -i'

[root@server ~]# ls

```
abc1      class1sectionB class3sectionB Music  redhat  Videos
abc{1...3} class1sectionC class3sectionC newfile redhat.txt xyz1.txt
abc2      class2sectionA Desktop  Pictures rhel    xyz2.txt
abc3      class2sectionB Documents Public  sample  xyz3.txt
anaconda-ks.cfg class2sectionC Downloads red     Templates
class1sectionA class3sectionA file1    'red abc' test
```

[root@server ~]# cat > sample1.txt

HELLO world

Press (ctrl+d) → save and exit

[root@server ~]# ls

```
abc1      class1sectionB class3sectionB Music  redhat  test
abc{1...3} class1sectionC class3sectionC newfile redhat.txt Videos
abc2      class2sectionA Desktop  Pictures rhel    xyz1.txt
abc3      class2sectionB Documents Public  sample  xyz2.txt
anaconda-ks.cfg class2sectionC Downloads red     sample1.txt xyz3.txt
class1sectionA class3sectionA file1    'red abc' Templates
```

[root@server ~]#

[root@server ~]# cat sample1.txt

HELLO world

[root@server ~]# cat >> sample1.txt → use to append

HELLO INDIA

Press (ctrl+d) → save and exit

```
[root@server ~]# cat sample1.txt
```

HELLO world

HELLO INDIA

```
[root@server ~]# cat > sample1.txt
```

 → use to overwrite

REDHAT CERTIFIED

```
[root@server ~]# cat sample1.txt
```

REDHAT CERTIFIED

```
[root@server ~]# cat >> sample2.txt
```

SYSTEM ADMINISTRATOR

Press (ctrl+d) → save and exit

```
[root@server ~]# cat sample2.txt
```

SYSTEM ADMINISTRATOR

```
[root@server ~]# cat sample1.txt sample2.txt
```

 → read multiple files

REDHAT CERTIFIED

SYSTEM ADMINISTRATOR

```
[root@server ~]# cat sample2.txt sample1.txt
```

SYSTEM ADMINISTRATOR

REDHAT CERTIFIED

```
[root@server ~]# cat sample1.txt sample2.txt > sample3 →merge multiple file into single
```

```
[root@server ~]# ls
```

```
abc1      class1sectionC Desktop Public sample1.txt xyz2.txt
abc{1...3} class2sectionA Documents red sample2.txt xyz3.txt
abc2      class2sectionB Downloads 'red abc' sample3
```

```
[root@server ~]# cat sample3
```

REDHAT CERTIFIED

SYSTEM ADMINISTRATOR

```
[root@server ~]# cat >> sample3
```

```
HELLO WORLD → tab space has been used
```

```
HELLO INDIA
```

```
[root@server ~]# cat sample3
```

REDHAT CERTIFIED

SYSTEM ADMINISTRATOR

HELLO WORLD

HELLO INDIA

[root@server ~]# **cat -n sample3**

→ print with line no.

```
1  REDHAT CERTIFIED
2
3
4  SYSTEM ADMINISTRATOR
5
6  HELLO WORLD
7  HELLO INDIA
8
```

[root@server ~]# **cat -E sample3**

→ \$ shows end of line

```
REDHAT CERTIFIED$
$
$
SYSTEM ADMINISTRATOR$
$
HELLO WORLD$
HELLO INDIA$
$
```

[root@server ~]# **cat -T sample3**

→ show tab space used in file

```
REDHAT CERTIFIED
```

SYSTEM ADMINISTRATOR

HELLO  WORLD

HELLO INDIA

REDIRECTOR

> (single input) --> overwrite

>> (double input) --> append

1> → output redirector (overwrite)

1>> → output redirector (append)

2> → error redirector (overwrite)

2>> → error redirector (append)

```
[root@server ~]# ls
```

```
abc1      class1sectionC Desktop  Public  sample1.txt xyz2.txt
abc{1...3} class2sectionA Documents red     sample2.txt xyz3.txt
abc2      class2sectionB Downloads 'red abc' sample3
abc3      class2sectionC file1    redhat  Templates
anaconda-ks.cfg class3sectionA Music    redhat.txt test
class1sectionA class3sectionB newfile  rhel    Videos
class1sectionB class3sectionC Pictures sample  xyz1.txt
```

```
[root@server ~]#
```

```
[root@server ~]# ls /
```

```
afs data    etc    home lib64 mnt    opt  redhat sample sys var
bin dev     file.txt kali media net    proc root sbin  tmp  web.sh
boot dhparams.pem grras  lib  misc  nfsdata red  run  srv   usr
```

[root@server ~]# ls / /abcd → *there are two arguments for ls command one is giving output and the another is giving error*

ls: cannot access '/abcd': No such file or directory → error

/: → output

```
afs data      etc   home lib64 mnt   opt redhat sample sys var
bin dev       file.txt kali media net   proc root sbin tmp web.sh
boot dhparams.pem grras lib misc nfsdata red run  srv  usr
```

[root@server ~]# # ls / /abcd > lsoutput # output redirector

[root@server ~]# ls / /abcd 1> lsout → *output redirector redirects the output in file as an data*

ls: cannot access '/abcd': No such file or directory

[root@server ~]# ls

```
abc3      class2sectionC Public sample1.txt xyz2.txt
anaconda-ks.cfg class3sectionA file1 red sample2.txt xyz3.txt
class1sectionA class3sectionB lsout 'red abc' sample3
class1sectionB class3sectionC lsoutput redhat Templates
```

[root@server ~]# cat lsout

```
afs data      etc   home lib64 mnt   opt redhat sample sys var
bin dev       file.txt kali media net   proc root sbin tmp web.sh
boot dhparams.pem grras lib misc nfsdata red run  srv  usr
```

```
[root@server ~]# ls / /abcd 2> error.txt
```

→ *error redirector redirects the error in file*

/:

```
afs data etc home lib64 mnt opt redhat sample sys var
bin dev file.txt kali media net proc root sbin tmp web.sh
boot dhparams.pem grras lib misc nfsdata red run srv usr
```

```
[root@server ~]# ls
```

.txt

```
abc3 class2sectionC error.txt Public sample1.txt xyz2.txt
class1sectionA class3sectionB lsout 'red abc' sample3
class1sectionB class3sectionC lsoutput redhat Templates
```

```
[root@server ~]# cat error.txt
```

ls: cannot access '/abcd': No such file or directory

```
[root@server ~]# cat rehat.txt
```

cat: rehat.txt: No such file or directory

→ *error of command cat rehat.txt*

```
[root@server ~]# cat rehat.txt 2>> error.txt
```

→ *appending the new error to existing error file*

```
[root@server ~]# cat error.txt
```

ls: cannot access '/abcd': No such file or directory

cat: rehat.txt: No such file or directory

echo command

echo command is use to print. it is also use to add text to file and create a file. mostly used is shell scripting.

syntax:

#echo <string/sentance> → used to print

#echo <string/sentance> <operator> <file name> → use to add data in file

operator:

> → overwrite

>> → append

eg:

```
[root@server ~]# echo redhat
```

```
redhat
```

```
[root@server ~]# echo "Redhat Certified System Administrator"
```

```
Redhat Certified System Administrator
```

```
[root@server ~]# echo "Redhat:user"
```

```
Redhat:user
```

```
[root@server ~]# echo {1..10}
```

```
1 2 3 4 5 6 7 8 9 10
```

```
[root@server ~]# echo {A..Z}
```

```
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
```

```
[root@server ~]# echo "Redhat:user@SYSTEM#admin"
```

Redhat:user@SYSTEM#admin

```
[root@server ~]# echo Redhat:user@SYSTEM #admin
```

Redhat:user@SYSTEM

```
[root@server ~]# echo "Redhat:user@SYSTEM #admin
```

Redhat:user@SYSTEM #admin

```
[root@server ~]# echo "Redhat:user@SYSTEM #admin"
```

Redhat:user@SYSTEM #admin

[root@server ~]# **echo Redhat:user@SYSTEM \#admin** → → need to print # in the sentence so user backslash (\) before the #

Redhat:user@SYSTEM #admin

```
[root@server ~]# echo Redhat:user@SYSTEM \#admin > echofile → create the with data
```

```
[root@server ~]# ls
```

```
abc2      class2sectionB Downloads newfile rhel      Videos
abc3      class2sectionC echofile  Pictures sample  xyz1.txt
anaconda-ks.cfg class3sectionA error.txt Public  sample1.txt xyz2.txt
```

```
[root@server ~]# cat echofile
```

Redhat:user@SYSTEM #admin

```
[root@server ~]# echo {A..Z} >> echofile → append
```

```
[root@server ~]# cat echofile
```

Redhat:user@SYSTEM #admin

ABCDEFGHIJKLMNOPQRSTUVWXYZ

```
[root@server ~]# echo {1..100} > echofile → overwrite
```

```
[root@server ~]# cat echofile
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69
70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
```

ECHO WITH ESCAPE SEQUENCE

-e → escape sequence

\n → new line

\t → horizontal tab

\c → continue

\v → vertical tab

\b → back space

EG:

```
[root@server ~]# echo "HELLO USER, YOU ARE REDHAT CERTIFIED"
```

```
HELLO USER, YOU ARE REDHAT CERTIFIED
```

```
[root@server ~]# echo "HELLO USER,\nYOU ARE \nREDHAT CERTIFIED"
```

```
HELLO USER,\nYOU ARE \nREDHAT CERTIFIED
```

```
[root@server ~]# echo -e "HELLO USER,\nYOU ARE \nREDHAT CERTIFIED\n"
```

```
HELLO USER,
```

```
YOU ARE
```

```
REDHAT CERTIFIED
```

```
[root@server ~]# echo -e "HELLO USER,\tYOU ARE \tREDHAT CERTIFIED\n"
```

```
HELLO USER,  YOU ARE      REDHAT CERTIFIED
```

```
[root@server ~]# echo -e "HELLO USER,\vYOU ARE \vREDHAT CERTIFIED\n"
```

```
HELLO USER,
```

```
    YOU ARE
```

```
        REDHAT CERTIFIED
```

```
[root@server ~]# echo -e "HELLO USER,\b YOU ARE\b REDHAT CERTIFIED\b "
```

```
HELLO USER YOU AR REDHAT CERTIFIE
```

```
[root@server ~]# echo -e "HELLO USER,\v YOU\t ARE\n REDHAT CERTIFIED\b "
```

```
HELLO USER,
```

```
    YOU    ARE
```

```
REDHAT CERTIFIE
```

```
[root@server ~]# echo -n "HELLO USER,\v YOU\t ARE\n REDHAT CERTIFIED\b "
```

```
HELLO USER,\v YOU\t ARE\n REDHAT CERTIFIED\b [root@server ~]#
```

```
[root@server ~]# echo -e "HELLO USER,\c YOU ARE\c REDHAT CERTIFIED\c "
```

```
HELLO USER,[root@server ~]#
```

```
[root@server ~]# echo hello ; echo world
```

```
hello
```

```
world
```

```
[root@server ~]# echo -e "hello \c " ; echo world
```

```
hello world
```

```
[root@server ~]# echo -e "hello \c" ; echo world
```

```
hello world
```

```
[root@server ~]# echo -n "hello " ; echo world
```

hello world

```
[root@server ~]# echo -n "hello " ; echo world
```

```
[root@server ~]# echo -e "hello \c" ; ls
```

```
hello  abc1      class1sectionC Desktop  lsoutput redhat  Templates
abc{1...3}  class2sectionA Documents Music   redhat.txt test
abc2      class2sectionB Downloads newfile  rhel    Videos
abc3      class2sectionC echofile  Pictures sample  xyz1.txt
anaconda-ks.cfg class3sectionA error.txt Public  sample1.txt xyz2.txt
class1sectionA class3sectionB file1   red    sample2.txt xyz3.txt
class1sectionB class3sectionC lsout   'red abc' sample3
```

```
[root@server ~]# echo "hello" ; ls
```

hello

```
abc1      class1sectionC Desktop  lsoutput redhat  Templates
abc{1...3}  class2sectionA Documents Music   redhat.txt test
abc2      class2sectionB Downloads newfile  rhel    Videos
abc3      class2sectionC echofile  Pictures sample  xyz1.txt
anaconda-ks.cfg class3sectionA error.txt Public  sample1.txt xyz2.txt
class1sectionA class3sectionB file1   red    sample2.txt xyz3.txt
class1sectionB class3sectionC lsout   'red abc' sample3
```

```
[root@server ~]# echo "hello" ; touch class.txt ; ls ; cd /
```

hello

```
abc1      class1sectionC class.txt lsout   'red abc' sample3
abc{1...3}  class2sectionA Desktop  lsoutput redhat  Templates
```

```
abc2      class2sectionB Documents Music  redhat.txt test
abc3      class2sectionC Downloads newfile rhel    Videos
anaconda-ks.cfg class3sectionA echofile Pictures sample  xyz1.txt
class1sectionA class3sectionB error.txt Public  sample1.txt xyz2.txt
class1sectionB class3sectionC file1   red    sample2.txt xyz3.txt
[root@server /]#
[root@server /]#
[root@server /]# cd
```

```
-----

[root@server ~]# echo "hello"
hello
[root@server ~]# echo $0
bash
[root@server ~]# echo $SHELL
/bin/bash
[root@server ~]# echo $HOME
/root
[root@server ~]# echo $HOSTNAME
server.example.com
[root@server ~]# echo $USER
root
[root@server ~]# echo $PWD
/root
[root@server ~]#
```