

Successfully create a text file with at least 50 lines of text called `interesting.txt` in your home directory under the `cptr2224` directory. Demonstrate viewing the file `interesting.txt` using `cat`, `head`, and `tail`. Demonstrate the use of the `find`, `locate`, `whereis`, `which` and `type` commands.

preuss : bash

Terminal window control buttons (dropdown, scroll, close)

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preuss@msctclinux:~> mkdir cptr2224

preuss : bash

preuss : bash

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```
preuss@msctclinux:~> mkdir cptr2224
preuss@msctclinux:~> █
```

preuss : bash

preuss : bash

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```
preuss@msctclinux:~> mkdir cptr2224  
preuss@msctclinux:~> cd cptr2224/
```

preuss : bash

YaST2 Control preuss : bash preuss : bash 04:19 pm

To return to your computer, press Ctrl+Alt.

preuss : bash

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```
preuss@msctclinux:~> mkdir cptr2224
preuss@msctclinux:~> cd cptr2224/
preuss@msctclinux:~/cptr2224> █
```

preuss : bash

YaST2 Control preuss : bash preuss : bash 04:19 pm

To return to your computer, press Ctrl+Alt.

cptr2224 : bash

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```
preuss@msctclinux:~> mkdir cptr2224
preuss@msctclinux:~> cd cptr2224/
preuss@msctclinux:~/cptr2224> su
Password: █
```

cptr2224 : bash

YaST2 Control preuss : bash cptr2224 : bas 04:19 pm

To return to your computer, press Ctrl+Alt.

cptr2224 : bash

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```
preuss@msctclinux:~> mkdir cptr2224
preuss@msctclinux:~> cd cptr2224/
preuss@msctclinux:~/cptr2224> su
Password:
msctclinux: /home/preuss/cptr2224 #
```

We need to become root so we have access to `/var/log/messages`. This file usually has at least 50 lines. So we will copy `/var/log/messages` to our home directory and use new file called `interesting.txt`.

cptr2224 : bash

cptr2224 : bash

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```
preuss@msctclinux:~> mkdir cptr2224
preuss@msctclinux:~> cd cptr2224/
preuss@msctclinux:~/cptr2224> su
Password:
```

```
msctclinux:/home/preuss/cptr2224 # cp /var/log/messages interesting.txt
```

cptr2224 : bash



cptr2224 : bash

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```
preuss@msctclinux:~> mkdir cptr2224
preuss@msctclinux:~> cd cptr2224/
preuss@msctclinux:~/cptr2224> su
Password:
```

```
msctclinux:/home/preuss/cptr2224 # cp /var/log/messages interesting.txt
msctclinux:/home/preuss/cptr2224 # chmod 666 interesting.txt
```

We need to change the permissions on the file interesting.txt so we can use the file as non-root.

cptr2224 : bash

cptr2224 : bash

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```
preuss@msctclinux:~> mkdir cptr2224
```

```
preuss@msctclinux:~> cd cptr2224/
```

```
preuss@msctclinux:~/cptr2224> su
```

Password:

```
msctclinux:/home/preuss/cptr2224 # cp /var/log/messages interesting.txt
```

```
msctclinux:/home/preuss/cptr2224 # chmod 666 interesting.txt
```

```
msctclinux:/home/preuss/cptr2224 # exit
```

cptr2224 : bash

cptr2224 : bash

File Edit View Scrollback Bookmarks Settings Help

```
preuss@msctclinux:~> mkdir cptr2224
```

```
preuss@msctclinux:~> cd cptr2224/
```

```
preuss@msctclinux:~/cptr2224> su
```

Password:

```
msctclinux:/home/preuss/cptr2224 # cp /var/log/messages interesting.txt
```

```
msctclinux:/home/preuss/cptr2224 # chmod 666 interesting.txt
```

```
msctclinux:/home/preuss/cptr2224 # exit
```

```
exit
```

```
preuss@msctclinux:~/cptr2224> █
```

cptr2224 : bash

cptr2224 : bash

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```
preuss@msctclinux:~> mkdir cptr2224
preuss@msctclinux:~> cd cptr2224/
preuss@msctclinux:~/cptr2224> su
Password:
```

```
msctclinux:/home/preuss/cptr2224 # cp /var/log/messages interesting.txt
msctclinux:/home/preuss/cptr2224 # chmod 666 interesting.txt
msctclinux:/home/preuss/cptr2224 # exit
exit
```

```
preuss@msctclinux:~/cptr2224> cat interesting.txt
```

cptr2224 : bash

cptr2224 : bash

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```

28/24
Jan 25 16:10:03 msctclinux dhcpcd[3545]: eth1: adding default route via 192.1
68.32.2 metric 0
Jan 25 16:10:03 msctclinux kernel: klogd 1.4.1, ----- state change -----
-----
Jan 25 16:10:03 msctclinux ifup:      eth1      device: Advanced Micro Devices
 [AMD] 79c970 [PCnet32 LANCE] (rev 10)
Jan 25 16:10:04 msctclinux SuSEfirewall2: Setting
g/SuSEfirewall2 ...
Jan 25 16:10:04 msctclinux SuSEfirewall2: using de
ace eth1
Jan 25 16:10:04 msctclinux SuSEfirewall2: batch co
Jan 25 16:10:04 msctclinux SuSEfirewall2: Firewall
Jan 25 16:10:04 msctclinux syslog-ng[1637]: Config
ived, reloading configuration;
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New co
Jan 25 16:16:44 msctclinux su: (to root) preuss on
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2
preuss@msctclinux:~/cptr2224>

```

The file does not fit on this screen shot.

cptr2224 : bash

cptr2224 : bash

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```

28/24
Jan 25 16:10:03 msctclinux dhcpcd[3545]: eth1: adding default route via 192.1
68.32.2 metric 0
Jan 25 16:10:03 msctclinux kernel: klogd 1.4.1, ----- state change -----
-----
Jan 25 16:10:03 msctclinux ifup:      eth1      dev
 [AMD] 79c970 [PCnet32 LANCE] (rev 10)
Jan 25 16:10:04 msctclinux SuSEfirewall2: Setting
g/SuSEfirewall2 ...
Jan 25 16:10:04 msctclinux SuSEfirewall2: using de
ace eth1
Jan 25 16:10:04 msctclinux SuSEfirewall2: batch co
Jan 25 16:10:04 msctclinux SuSEfirewall2: Firewall
Jan 25 16:10:04 msctclinux syslog-ng[1637]: Config
ived, reloading configuration;
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New configuration initialized;
Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2
preuss@msctclinux:~/cptr2224> head interesting.txt

```

We are viewing the beginning of the file, interesting.txt. We know this by looking at the time/date stamp.

cptr2224 : bash

cptr2224 : bash

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```

Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2
preuss@msctclinux:~/cptr2224> head interesting.txt
Jan 18 13:37:19 linux syslog-ng[4237]: syslog-ng starting up; version='2.0.9'
Jan 18 13:37:20 linux rchal: CPU frequency scaling is not supported by your p
rocessor.
Jan 18 13:37:20 linux rchal: boot with 'CPUFREQ=no' in to avoid this warning.
Jan 18 13:37:20 linux SuSEfirewall2: batch committing...
Jan 18 13:37:20 linux rchal: Cannot load cpufreq governors - No cpufreq drive
r available
Jan 18 13:37:21 linux SuSEfirewall2: Firewall rules set to CLOSE.
Jan 18 13:37:24 linux kernel: klogd 1.4.1, log source = /proc/kmsg started.
Jan 18 13:37:24 linux kernel: type=1505 audit(1263821811.747:2): operation="p
rofile_load" name="/bin/ping" name2="default" pid=3797
Jan 18 13:37:24 linux kernel: type=1505 audit(1263821811.815:3): operation="p
rofile_load" name="/sbin/klogd" name2="default" pid=3798
Jan 18 13:37:24 linux kernel: type=1505 audit(1263821811.959:4): operation="p
rofile_load" name="/sbin/syslog-ng" name2="default" pid=3802
preuss@msctclinux:~/cptr2224>

```

cptr2224 : bash

cptr2224 : bash

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```

Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2
preuss@msctclinux:~/cptr2224> head interesting.txt
Jan 18 13:37:19 linux syslog-ng[4237]: syslog-ng starting up; version='2.0.9'
Jan 18 13:37:20 linux rchal: CPU frequency scaling is not supported by your p
rocessor.
Jan 18 13:37:20 linux rchal: boot with 'CPUFREQ=no' in to avoid this warning.
Jan 18 13:37:20 linux SuSEfirewall2: batch committing...
Jan 18 13:37:20 linux rchal: Cannot load cpufreq governors - No cpufreq drive
r available
Jan 18 13:37:21 linux SuSEfirewall2: Firewall rules set to CLOSE.
Jan 18 13:37:24 linux kernel: klogd 1.4.1, log source = /proc/kmsg started.
Jan 18 13:37:24 linux kernel: type=1505 audit(1263821811.747:2): operation="p
rofile_load" name="/bin/ping" name2="default" pid=3797
Jan 18 13:37:24 linux kernel: type=1505 audit(1263821811.815:3): operation="p
rofile_load" name="/sbin/klogd" name2="default" pid=3798
Jan 18 13:37:24 linux kernel: type=1505 audit(1263821811.959:4): operation="p
rofile_load" name="/sbin/syslog-ng" name2="default" pid=3802
preuss@msctclinux:~/cptr2224> tail interesting.txt

```

cptr2224 : bash



cptr2224 : bash

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```

Jan 18 13:37:24 linux kernel: type=1505 audit(1263821811.959:4): operation="p
rofile_load" name="/sbin/syslog-ng" name2="default" pid=3802
preuss@msctclinux:~/cptr2224> tail interesting.txt
Jan 25 16:10:03 msctclinux kernel: klogd 1.4.1, ----- state change -----
-----
Jan 25 16:10:03 msctclinux ifup: eth1 device: Advanced Micro Devices
[AMD] 79c970 [PCnet32 LANCE] (rev 10)
Jan 25 16:10:04 msctclinux SuSEfirewall2: Setting up rules from /etc/sysconfi
g/SuSEfirewall2 ...
Jan 25 16:10:04 msctclinux SuSEfirewall2: using d
ace eth1
Jan 25 16:10:04 msctclinux SuSEfirewall2: batch c
Jan 25 16:10:04 msctclinux SuSEfirewall2: Firewal
Jan 25 16:10:04 msctclinux syslog-ng[1637]: Confi
ived, reloading configuration;
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New c
Jan 25 16:16:44 msctclinux su: (to root) preuss o
Jan 25 16:19:16 msctclinux su: (to root) preuss on
preuss@msctclinux:~/cptr2224>

```

We are looking at the end of the file interesting.txt. We know this by looking at the date/time stamp.

cptr2224 : bash

cptr2224 : tail

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```

==> interesting.txt <==
10:03 msctclinux kernel: klogd 1.4.1, ----- state change -----
10:03 msctclinux ifup: eth1 device: Advanced Micro Devices
e970 [PCnet32 LANCE] (rev 10)
10:04 msctclinux SuSEfirewall2: Setting up rules from /etc/sysconfi
ewall2 ...
10:04 msctclinux SuSEfirewall2: using default zone 'ext' for interf
10:04 msctclinux SuSEfirewall2: batch committing...
10:04 msctclinux SuSEfirewall2: Firewall rules successfully set
Jan 25 16:10:04 msctclinux syslog-ng[1637]: Configuration reload request rece
ived, loading configuration;
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New configuration initialized;
Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2

^C
preuss@msctclinux:~/cptr2224> find interesting.txt

```

We pressed the ctrl key and tap the c key. This is using the ctrl-c combination

cptr2224 : tail

cptr2224 : tail

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```

==> interesting.txt <==
Jan 25 16:10:03 msctclinux kernel: klogd 1.4.1, ----- state change -----
-----
Jan 25 16:10:03 msctclinux ifup:      eth1      device: Advanced Micro Devices
[AMD] 79c970 [PCnet32 LANCE] (rev 10)
Jan 25 16:10:04 msctclinux SuSEfirewall2: Setting up rules from /etc/sysconfi
g/SuSEfirewall2 ...
Jan 25 16:10:04 msctclinux SuSEfirewall2: using default zone 'ext' for interf
ace eth1
Jan 25 16:10:04 msctclinux SuSEfirewall2: batch committing...
Jan 25 16:10:04 msctclinux SuSEfirewall2: Firewall rules successfully set
Jan 25 16:10:04 msctclinux syslog-ng[1637]: Configuration reload request rece
ived, reloading configuration;
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New configuration initialized;
Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2

```

```

^C
preuss@msctclinux:~/cptr2224> find interesting.txt

```

cptr2224 : tail

cptr2224 : tail

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```

-----
Jan 25 16:10:03 msctclinux ifup:      eth1      device: Advanced Micro Devices
  [AMD] 79c970 [PCnet32 LANCE] (rev 10)
Jan 25 16:10:04 msctclinux SuSEfirewall2: Setting up rules from /etc/sysconfi
g/SuSEfirewall2 ...
Jan 25 16:10:04 msctclinux SuSEfirewall2: using default zone 'ext' for interf
ace eth1
Jan 25 16:10:04 msctclinux SuSEfirewall2: batch committing...
Jan 25 16:10:04 msctclinux SuSEfirewall2: Firewall rules successfully set
Jan 25 16:10:04 msctclinux syslog-ng[1637]: Configuration reload request rece
ived, reloading configuration;
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New configuration initialized;
Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2

```

```

^C
preuss@msctclinux:~/cptr2224> find interesting.txt
interesting.txt
preuss@msctclinux:~/cptr2224> █

```

cptr2224 : tail

cptr2224 : tail

File Edit View Scrollback Bookmarks Settings Help

```
[AMD] 79c970 [PCnet32 LANCE] (rev 10)
Jan 25 16:10:04 msctclinux SuSEfirewall2: Setting up rules from /etc/sysconfi
g/SuSEfirewall2 ...
Jan 25 16:10:04 msctclinux SuSEfirewall2: using default zone 'ext' for interf
ace eth1
Jan 25 16:10:04 msctclinux SuSEfirewall2: batch committing...
Jan 25 16:10:04 msctclinux SuSEfirewall2: Firewall rules successfully set
Jan 25 16:10:04 msctclinux syslog-ng[1637]: Configuration reload request rece
ived, reloading configuration;
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New configuration initialized;
Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2
```

```
^C
preuss@msctclinux:~/cptr2224> find interesting.txt
interesting.txt
preuss@msctclinux:~/cptr2224> find head
find: `head': No such file or directory
preuss@msctclinux:~/cptr2224> █
```

cptr2224 : tail

cptr2224 : bash

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```
[AMD] 79c970 [PCnet32 LANCE] (rev 10)
Jan 25 16:10:04 msctclinux SuSEfirewall2: Setting up rules from /etc/sysconfi
g/SuSEfirewall2 ...
Jan 25 16:10:04 msctclinux SuSEfirewall2: using default zone 'ext' for interf
ace eth1
Jan 25 16:10:04 msctclinux SuSEfirewall2: batch committing...
Jan 25 16:10:04 msctclinux SuSEfirewall2: Firewall rules successfully set
Jan 25 16:10:04 msctclinux syslog-ng[1637]: Configuration reload request rece
ived, reloading configuration;
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New configuration initialized;
Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2
```

```
^C
preuss@msctclinux:~/cptr2224> find interesting.txt
interesting.txt
preuss@msctclinux:~/cptr2224> find head
find: `head': No such file or directory
preuss@msctclinux:~/cptr2224> locate interesting.txt
```

cptr2224 : bash

cptr2224 : bash

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```

g/SuSEfirewall2 ...
Jan 25 16:10:04 msctclinux SuSEfirewall2: using default zone 'ext' for interf
ace eth1
Jan 25 16:10:04 msctclinux SuSEfirewall2: batch committing...
Jan 25 16:10:04 msctclinux SuSEfirewall2: Firewall rules successfully set
Jan 25 16:10:04 msctclinux syslog-ng[1637]: Configuration reload request rece
ived, reloading configuration;
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New configuration initialized;
Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2

```

```

^C
preuss@msctclinux:~/cptr2224> find interesting.txt
interesting.txt
preuss@msctclinux:~/cptr2224> find head
find: `head': No such file or directory
preuss@msctclinux:~/cptr2224> locate interesting.txt
bash: locate: command not found
preuss@msctclinux:~/cptr2224> █

```

cptr2224 : bash

cptr2224 : bash

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```

g/SuSEfirewall2 ...
Jan 25 16:10:04 msctclinux SuSEfirewall2: using default zone 'ext' for interf
ace eth1
Jan 25 16:10:04 msctclinux SuSEfirewall2: batch committing...
Jan 25 16:10:04 msctclinux SuSEfirewall2: Firewall rules successfully set
Jan 25 16:10:04 msctclinux syslog-ng[1637]: Configuration reload request rece
ived, reloading configuration;
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New configuration initialized;
Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2

```

```

^C
preuss@msctclinux:~/cptr2224> find interesting.txt
interesting.txt
preuss@msctclinux:~/cptr2224> find head
find: `head': No such file or directory
preuss@msctclinux:~/cptr2224> locate interesting.txt
bash: locate: command not found
preuss@msctclinux:~/cptr2224> locate head

```

cptr2224 : bash



cptr2224 : bash

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```

ace eth1
Jan 25 16:10:04 msctclinux SuSEfirewall2: batch committing...
Jan 25 16:10:04 msctclinux SuSEfirewall2: Firewall rules successfully set
Jan 25 16:10:04 msctclinux syslog-ng[1637]: Configuration reload request received, reloading configuration;
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New configuration initialized;
Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2

```

```

^C
preuss@msctclinux:~/cptr2224> find interesting.txt
interesting.txt
preuss@msctclinux:~/cptr2224> find head
find: `head': No such file or directory
preuss@msctclinux:~/cptr2224> locate interesting.txt
bash: locate: command not found
preuss@msctclinux:~/cptr2224> locate head
bash: locate: command not found
preuss@msctclinux:~/cptr2224> █

```

cptr2224 : bash

cptr2224 : bash

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Jan 25 16:10:04 msctclinux SuSEfirewall2: Firewall rules successfully set  
Jan 25 16:10:04 msctclinux syslog-ng[1637]: Configuration reload request received, reloading configuration;  
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New configuration initialized;  
Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2  
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2

^C  
preuss@msctclinux:~/cptr2224> find interesting.txt  
interesting.txt  
preuss@msctclinux:~/cptr2224> find head  
find: `head': No such file or directory  
preuss@msctclinux:~/cptr2224> locate interesting.txt  
bash: locate: command not found  
preuss@msctclinux:~/cptr2224> locate head  
bash: locate: command not found  
preuss@msctclinux:~/cptr2224> whereis interesting.txt  
interesting:  
preuss@msctclinux:~/cptr2224> █

cptr2224 : bash

cptr2224 : bash

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ived, reloading configuration;  
Jan 25 16:10:04 msctclinux syslog-ng[1637]: New configuration initialized;  
Jan 25 16:16:44 msctclinux su: (to root) preuss on /dev/pts/2  
Jan 25 16:19:16 msctclinux su: (to root) preuss on /dev/pts/2

^C  
preuss@msctclinux:~/cptr2224> find interesting.txt  
interesting.txt  
preuss@msctclinux:~/cptr2224> find head  
find: `head': No such file or directory  
preuss@msctclinux:~/cptr2224> locate interesting.txt  
bash: locate: command not found  
preuss@msctclinux:~/cptr2224> locate head  
bash: locate: command not found  
preuss@msctclinux:~/cptr2224> whereis interesting.txt  
interesting:  
preuss@msctclinux:~/cptr2224> whereis head  
head: /usr/bin/head /usr/bin/X11/head /usr/share/man/man1/head.1.gz  
preuss@msctclinux:~/cptr2224> █

cptr2224 : bash