

# Linux Commands Cheat Sheet

Easy to use Linux shortcuts  
for developers.



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<b>ssh [ip or hostname]</b> "vagrant ssh" in the same directory as the Vagrantfile to shell into the box/machine (assumes you have successfully "vagrant up")	Secure shell, an encrypted network protocol allowing for remote login and command execution On Windows: PuTTY and WinSCP An "ssh.exe" is also available via Cygwin as well as with a Git installation.
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<b>pwd</b>	Print Working Directory Displays the full path name
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<b>whoami</b>	Displays your logged in user id
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<b>cd /</b> <b>cd target</b> <b>cd ~</b>	Change directory to the root of the filesystem Change directory to "target" directory Change directory to your home directory
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<b>ls</b> <b>ls -l</b> <b>ls -la</b>	Directory listing Long listing, displays file ownership Displays hidden files/directories
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```
[vagrant@rhel-cdk ~]$ ls
bin boot dev etc home lib lib64 lost+found media mnt opt pro
[vagrant@rhel-cdk ~]$ ls -l
total 62
lrwxrwxrwx. 1 root root 7 Mar 8 20:36 bin -> usr/bin
dr-xr-xr-x. 4 root root 1024 Mar 12 19:26 boot
drwxr-xr-x. 18 root root 3100 Mar 12 19:49 dev
drwxr-xr-x. 85 root root 4096 Mar 12 19:31 etc
drwxr-xr-x. 3 root root 4096 Mar 8 20:54 home
lrwxrwxrwx. 1 root root 7 Mar 8 20:36 lib -> usr/lib
lrwxrwxrwx. 1 root root 9 Mar 8 20:36 lib64 -> usr/lib64
drwx----- 2 root root 16384 Mar 8 20:34 lost+found
drwxr-xr-x. 2 root root 4096 May 25 2015 media
drwxr-xr-x. 2 root root 4096 May 25 2015 mnt
drwxr-xr-x. 3 root root 4096 Mar 8 20:50 opt
dr-xr-xr-x. 166 root root 0 Mar 12 19:26 proc
dr-xr-x--- 3 root root 4096 Mar 12 19:30 root
drwxr-xr-x. 31 root root 1000 Mar 12 19:31 run
lrwxrwxrwx. 1 root root 8 Mar 8 20:36 sbin -> usr/sbin
drwxr-xr-x. 2 root root 4096 May 25 2015 srv
dr-xr-xr-x. 13 root root 0 Mar 12 19:26 sys
drwxrwxrwt. 7 root root 4096 Mar 12 20:31 tmp
drwxr-xr-x. 13 root root 4096 Mar 8 20:36 usr
drwxr-xr-x. 3 vagrant vagrant 4096 Mar 12 19:25 vagrant
drwxr-xr-x. 19 root root 4096 Mar 12 19:26 var
[vagrant@rhel-cdk ~]$
```

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<b>clear</b>	Clear the terminal screen
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**cat file.txt**

Displays the contents of file.txt to standard out

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**cat /etc/system-release**

Displays the contents of the system-release file - what version of RHEL, Centos or Fedora are you running?

```
[vagrant@rhel-cdk etc]$ cat /etc/system-release
Red Hat Enterprise Linux Server release 7.2 (Maipo)
[vagrant@rhel-cdk etc]$ █
```

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**cat longfile.txt | more**

Displays the contents of the file with forward paging

```
Count is 0
Count is 1
Count is 2
Count is 3
Count is 4
Count is 5
Count is 6
Count is 7
Count is 8
Count is 9
Count is 10
Count is 11
Count is 12
Count is 13
Count is 14
Count is 15
Count is 16
Count is 17
Count is 18
Count is 19
Count is 20
Count is 21
Count is 22
Count is 23
Count is 24
Count is 25
Count is 26
Count is 27
--More-- █
```

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**less longfile.txt**

Scroll forward: Ctrl-f  
Scroll backward: Ctrl-b  
End of file: G  
Quit less: q

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**man cat**

Man pages, the user manual. In this case, it will describe the cat command

```
CAT(1)
NAME
  cat - concatenate files and print on the standard output
SYNOPSIS
  cat [OPTION]... [FILE]...
DESCRIPTION
  Concatenate FILE(s), or standard input, to standard output.
  -A, --show-all
      equivalent to -vET
  -b, --number-nonblank
      number nonempty output lines, overrides -n
  -e
      equivalent to -vE
  -E, --show-ends
      display $ at end of each line
  -n, --number
      number all output lines
  -s, --squeeze-blank
      suppress repeated empty output lines
  -t
      equivalent to -vT
  -T, --show-tabs
      display TAB characters as ^I
Manual page cat(1) line 1 (press h for help or q to quit) █
```

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<code>cp source_file.js target_file.js</code>	Copies a specific file
<code>cp -r ~/source_dir ~/target_dir</code>	Copies all files and sub-dirs

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<code>mkdir my_directory</code>	Create the directory "my_directory"
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```
[vagrant@rhel-cdk ~]$ mkdir my_directory
[vagrant@rhel-cdk ~]$ ls -la
total 32
drwx-----. 5 vagrant vagrant 4096 Mar 12 21:39 .
drwxr-xr-x. 3 root root 4096 Mar 8 20:54 ..
-rw-r--r--. 1 vagrant vagrant 18 Jul 8 2015 .bash_logout
-rw-r--r--. 1 vagrant vagrant 193 Jul 8 2015 .bash_profile
-rw-r--r--. 1 vagrant vagrant 231 Jul 8 2015 .bashrc
drwxr-xr-x. 2 vagrant vagrant 4096 Mar 12 19:26 .docker
drwxrwxr-x. 2 vagrant vagrant 4096 Mar 12 21:39 my_directory
drwx-----. 2 vagrant vagrant 4096 Mar 12 19:26 .ssh
[vagrant@rhel-cdk ~]$
```

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<code>rm myfile.js</code>	Removes a specific file
<code>rm -rf my_directory/</code>	Removes a directory, recursively

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<code>mv [source_file] [target_file]</code>	Move file or directory
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<code>ps -ef</code>	Displays information about a selection of the active processes
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```
[vagrant@rhel-cdk etc]$ ps -ef
UID      PID  PPID  C  STIME TTY          TIME CMD
root      1     0  0  19:26 ?           00:00:02 /usr/lib/systemd/systemd
root      2     0  0  19:26 ?           00:00:00 [kthreadd]
root      3     2  0  19:26 ?           00:00:01 [ksoftirqd/0]
root      5     2  0  19:26 ?           00:00:05 [kworker/0:0H]
root      7     2  0  19:26 ?           00:00:00 [migration/0]
root      8     2  0  19:26 ?           00:00:00 [rcu_bh]
root      9     2  0  19:26 ?           00:00:00 [rcuob/0]
root     10     2  0  19:26 ?           00:00:00 [rcuob/1]
root     11     2  0  19:26 ?           00:00:19 [rcu_sched]
root     12     2  0  19:26 ?           00:00:14 [rcuos/0]
root     13     2  0  19:26 ?           00:00:16 [rcuos/1]
root     14     2  0  19:26 ?           00:00:00 [watchdog/0]
root     15     2  0  19:26 ?           00:00:00 [watchdog/1]
root     16     2  0  19:26 ?           00:00:00 [migration/1]
root     17     2  0  19:26 ?           00:00:00 [ksoftirqd/1]
root     19     2  0  19:26 ?           00:00:00 [kworker/1:0H]
root     20     2  0  19:26 ?           00:00:00 [khelper]
root     21     2  0  19:26 ?           00:00:00 [kdevtmpfs]
root     22     2  0  19:26 ?           00:00:00 [netns]
root     23     2  0  19:26 ?           00:00:00 [perf]
root     24     2  0  19:26 ?           00:00:00 [writeback]
root     25     2  0  19:26 ?           00:00:00 [kintegrityd]
root     26     2  0  19:26 ?           00:00:00 [bioset]
root     27     2  0  19:26 ?           00:00:00 [kblockd]
root     28     2  0  19:26 ?           00:00:00 [md]
root     29     2  0  19:26 ?           00:00:02 [kworker/0:1]
root     34     2  0  19:26 ?           00:00:00 [khungtaskd]
root     35     2  0  19:26 ?           00:00:01 [kswapd0]
root     36     2  0  19:26 ?           00:00:00 [ksmd]
```

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## ./runthisting

Execute a program or shell script in your current working directory (pwd)  
Executable items are have an "x" in their long listing (ls -la)

```
[vagrant@rhel-cdk bin]$ pwd
/usr/bin
[vagrant@rhel-cdk bin]$ ls -la | grep cp
-rwxr-xr-x. 1 root root 155136 Nov 25 10:55 cp
-rwxr-xr-x. 1 root root 141632 Jul 8 2015 cpio
-rwxr-xr-x. 1 root root 768592 Jul 15 2015 cpp
-rwxr-xr-x. 1 root root 67928 Jan 23 05:07 cpupower
-rwxr-xr-x. 1 root root 58352 Aug 21 2015 lscpu
-rwxr-xr-x. 1 root root 11400 Sep 15 05:51 rpm2cpio
-rwxr-xr-x. 1 root root 70360 Jan 13 10:22 scp
[vagrant@rhel-cdk bin]$
```

```
[vagrant@rhel-cdk ~]$ cd ~
[vagrant@rhel-cdk ~]$ ls -la
total 32
drwx-----. 4 vagrant vagrant 4096 Mar 12 21:04 .
drwxr-xr-x. 3 root root 4096 Mar 8 20:54 ..
-rw-r--r--. 1 vagrant vagrant 18 Jul 8 2015 .bash_logout
-rw-r--r--. 1 vagrant vagrant 193 Jul 8 2015 .bash_profile
-rw-r--r--. 1 vagrant vagrant 231 Jul 8 2015 .bashrc
drwxr-xr-x. 2 vagrant vagrant 4096 Mar 12 19:26 .docker
-rwxr-xr-x. 1 vagrant vagrant 107 Mar 12 21:04 runthisting
drwx-----. 2 vagrant vagrant 4096 Mar 12 19:26 .ssh
[vagrant@rhel-cdk ~]$
```

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## ./runthisting &

Execute a program or shell script as a background task

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## ps -ef | grep runthisting

Find a particular process by name. The "|" is a pipe, redirects the output of the left-side command to the standard input of the right-side command

```
[vagrant@rhel-cdk ~]$ ./runthisting &
[3] 22047
[vagrant@rhel-cdk ~]$ ps -ef | grep runthisting
vagrant 22047 14771 99 21:11 pts/0 00:00:05 /bin/bash ./runthisting
vagrant 22060 14771 0 21:11 pts/0 00:00:00 grep --color=auto runthisting
[vagrant@rhel-cdk ~]$
```

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## kill -9 [pid]

```
[vagrant@rhel-cdk ~]$ ps -ef | grep runthisting
vagrant 22047 14771 99 21:11 pts/0 00:00:21 /bin/bash ./runthisting
vagrant 22081 14771 0 21:11 pts/0 00:00:00 grep --color=auto runthisting
[vagrant@rhel-cdk ~]$ kill -9 22047
[vagrant@rhel-cdk ~]$ ps -ef | grep runthisting
vagrant 22096 14771 0 21:11 pts/0 00:00:00 grep --color=auto runthisting
[3] Killed ./runthisting
[vagrant@rhel-cdk ~]$
```

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## ip -4 a

Shows the IPv4 address for all NICs

top

What is eating your CPU

```
top - 21:17:06 up 1:51, 1 user, load average: 0.41, 0.67, 0.49
Tasks: 157 total, 4 running, 151 sleeping, 2 stopped, 0 zombie
%Cpu(s): 47.4 us, 3.7 sy, 0.0 ni, 48.5 id, 0.2 wa, 0.0 hi, 0.2 si, 0.0 st
KiB Mem : 1017056 total, 108588 free, 378700 used, 529768 buff/cache
KiB Swap: 1572860 total, 1559232 free, 13628 used, 436384 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
22526	vagrant	20	0	113116	1184	1008	R	100.0	0.1	0:08.06	runthisthing
13368	root	20	0	1448088	233012	15992	S	10.0	22.9	12:36.47	openshift
13168	root	20	0	1377296	44816	11004	S	1.3	4.4	1:10.37	docker
453	root	20	0	43588	9560	6892	S	0.3	0.9	0:10.46	systemd-journal
1	root	20	0	43896	5532	3568	S	0.0	0.5	0:02.06	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.03	kthreadd
3	root	20	0	0	0	0	R	0.0	0.0	0:01.45	ksoftirqd/0
5	root	0	-20	0	0	0	S	0.0	0.0	0:06.25	kworker/0:0H
7	root	rt	0	0	0	0	S	0.0	0.0	0:00.66	migration/0
8	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_bh
9	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcuob/0
10	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcuob/1
11	root	20	0	0	0	0	S	0.0	0.0	0:24.92	rcu_sched
12	root	20	0	0	0	0	R	0.0	0.0	0:18.26	rcuos/0
13	root	20	0	0	0	0	S	0.0	0.0	0:21.08	rcuos/1
14	root	rt	0	0	0	0	S	0.0	0.0	0:00.19	watchdog/0
15	root	rt	0	0	0	0	S	0.0	0.0	0:00.20	watchdog/1
16	root	rt	0	0	0	0	S	0.0	0.0	0:00.72	migration/1
17	root	20	0	0	0	0	S	0.0	0.0	0:01.08	ksoftirqd/1
19	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/1:0H
20	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	khelper
21	root	20	0	0	0	0	S	0.0	0.0	0:00.02	kdevtmpfs
22	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	netns
23	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	perf
24	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	writeback
25	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kintegrityd

which [executable]

Where is the executable located

```
[vagrant@rhel-cdk ~]$ which docker
/usr/bin/docker
[vagrant@rhel-cdk ~]$ which oc
/usr/bin/oc
[vagrant@rhel-cdk ~]$ which top
/usr/bin/top
[vagrant@rhel-cdk ~]$
```

**echo "Stuff" > target\_file.txt**  
**echo "more" >> target\_file.txt**

single > redirects the output to the file  
"target\_file.txt"  
A double >> appends

```
[vagrant@rhel-cdk ~]$ cd ~
[vagrant@rhel-cdk ~]$ ls -la
total 32
drwx-----. 4 vagrant vagrant 4096 Mar 12 21:29 .
drwxr-xr-x. 3 root root 4096 Mar 8 20:54 ..
-rw-r--r--. 1 vagrant vagrant 18 Jul 8 2015 .bash_logout
-rw-r--r--. 1 vagrant vagrant 193 Jul 8 2015 .bash_profile
-rw-r--r--. 1 vagrant vagrant 231 Jul 8 2015 .bashrc
drwxr-xr-x. 2 vagrant vagrant 4096 Mar 12 19:26 .docker
-rwxrwxr-x. 1 vagrant vagrant 114 Mar 12 21:11 runthisthing
drwx-----. 2 vagrant vagrant 4096 Mar 12 19:26 .ssh
[vagrant@rhel-cdk ~]$ echo "stuff" > target_file.txt
[vagrant@rhel-cdk ~]$ cat target_file.txt
stuff
[vagrant@rhel-cdk ~]$ echo "more" >> target_file.txt
[vagrant@rhel-cdk ~]$ cat target_file.txt
stuff
more
[vagrant@rhel-cdk ~]$ ls -la
total 36
drwx-----. 4 vagrant vagrant 4096 Mar 12 21:29 .
drwxr-xr-x. 3 root root 4096 Mar 8 20:54 ..
-rw-r--r--. 1 vagrant vagrant 18 Jul 8 2015 .bash_logout
-rw-r--r--. 1 vagrant vagrant 193 Jul 8 2015 .bash_profile
-rw-r--r--. 1 vagrant vagrant 231 Jul 8 2015 .bashrc
drwxr-xr-x. 2 vagrant vagrant 4096 Mar 12 19:26 .docker
-rwxrwxr-x. 1 vagrant vagrant 114 Mar 12 21:11 runthisthing
drwx-----. 2 vagrant vagrant 4096 Mar 12 19:26 .ssh
-rw-rw-r--. 1 vagrant vagrant 11 Mar 12 21:29 target_file.txt
[vagrant@rhel-cdk ~]$
```

**echo \$PATH**

Displays the \$PATH environment variable

```
[vagrant@rhel-cdk ~]$ echo $PATH
/usr/local/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/home/vagrant/.local/bin:/home/vagrant/bin
```

**env**

Displays all ENV variables

**export PATH=\$PATH:/anotherdir**

Adds "anotherdir" to your PATH, just for your current session

**sudo find . -name [file]**

Find a file or directory by name

```
[vagrant@rhel-cdk /]$ cd /
[vagrant@rhel-cdk /]$ sudo find . -name vagrant
./var/spool/mail/vagrant
./vagrant
./vagrant/src/booker/vagrant
./etc/sudoers.d/vagrant
./home/vagrant
[vagrant@rhel-cdk /]$
```

---

**grep -i stuff `find . -name \\*.txt -print`** Find the string "stuff" in all the .txt files

```
[vagrant@rhel-cdk ~]$ cd ~
[vagrant@rhel-cdk ~]$ echo "Stuff" > target_file.txt
[vagrant@rhel-cdk ~]$ echo "more" >> target_file.txt
[vagrant@rhel-cdk ~]$ ls
my_directory target_file.txt
[vagrant@rhel-cdk ~]$ grep -i stuff `find . -name \*.txt -print`
"Stuff"
[vagrant@rhel-cdk ~]$
```

---

**head [file]** Output the first part of file (first 10 lines)

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**curl developers.redhat.com** Retrieve the content from [developers.redhat.com](http://developers.redhat.com)

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**source myenvsetting\_script.sh** How to add something to the PATH and make it stick  
By default a new shell is launched to run a script, therefore env changes are not visible to your current shell.

```
[vagrant@rhel-cdk ~]$ ls
myenvsetting_script.sh mystuff
[vagrant@rhel-cdk ~]$ cat myenvsetting_script.sh
export MY_STUFF=/home/vagrant/mystuff
export PATH=$PATH:$MY_STUFF/bin
[vagrant@rhel-cdk ~]$ source myenvsetting_script.sh
[vagrant@rhel-cdk ~]$ echo $PATH
/usr/local/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/home/vagrant/.local/bin:/home/vagrant/bin:/home/vagrant/mystuff/bin
[vagrant@rhel-cdk ~]$
```

Note: the path uses ":" as a separator vs ";" in the Windows world

---

**sudo yum -y install net-tools** "yum" is the installation tool for Fedora, Centos and RHEL. This command installs "net-tools" which has many handy utilities like netstat

```
[vagrant@rhel-cdk ~]$ sudo yum -y install net-tools
Loaded plugins: product-id, search-disabled-repos, subscription-manager
Resolving Dependencies
--> Running transaction check
--> Package net-tools.x86_64 0:2.0-0.17.20131004git.e17 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
net-tools x86_64 2.0-0.17.20131004git.e17 rhel-7-server-eus-rpms 304 k
=====
Transaction Summary
=====
Install 1 Package

Total download size: 304 k
Installed size: 917 k
Downloading packages:
net-tools-2.0-0.17.20131004git.e17.x86_64.rpm | 304 kB 00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : net-tools-2.0-0.17.20131004git.e17.x86_64 1/1
Verifying : net-tools-2.0-0.17.20131004git.e17.x86_64 1/1

Installed:
net-tools.x86_64 0:2.0-0.17.20131004git.e17

Complete!
[vagrant@rhel-cdk ~]$
```

**sudo netstat -anp | grep tcp | grep LISTEN**

Lists the various in-use ports and the process using it

```
[vagrant@rhel-cdk ~]$ sudo netstat -anp | grep tcp | grep LISTEN
tcp        0      0 127.0.0.1:10443      0.0.0.0:*           LISTEN      27967/haproxy
tcp        0      0 127.0.0.1:10444      0.0.0.0:*           LISTEN      27967/haproxy
tcp        0      0 0.0.0.0:80           0.0.0.0:*           LISTEN      27967/haproxy
tcp        0      0 0.0.0.0:1936         0.0.0.0:*           LISTEN      27967/haproxy
tcp        0      0 0.0.0.0:53           0.0.0.0:*           LISTEN      13368/openshift
tcp        0      0 0.0.0.0:22           0.0.0.0:*           LISTEN      907/sshd
tcp        0      0 127.0.0.1:25         0.0.0.0:*           LISTEN      1651/master
tcp        0      0 0.0.0.0:443          0.0.0.0:*           LISTEN      27967/haproxy
tcp        0      0 0.0.0.0:8443         0.0.0.0:*           LISTEN      13368/openshift
tcp6       0      0 :::2376               :::*                 LISTEN      13168/docker
tcp6       0      0 :::53866              :::*                 LISTEN      13368/openshift
tcp6       0      0 :::10250               :::*                 LISTEN      13368/openshift
tcp6       0      0 :::33900               :::*                 LISTEN      13368/openshift
tcp6       0      0 :::9101                :::*                 LISTEN      14636/haproxy_expor
tcp6       0      0 :::52944               :::*                 LISTEN      13368/openshift
tcp6       0      0 :::38549               :::*                 LISTEN      13368/openshift
tcp6       0      0 :::22                  :::*                 LISTEN      907/sshd
tcp6       0      0 :::7001                :::*                 LISTEN      13368/openshift
tcp6       0      0 :::1:25                :::*                 LISTEN      1651/master
tcp6       0      0 :::4001                :::*                 LISTEN      13368/openshift
tcp6       0      0 :::32869               :::*                 LISTEN      13368/openshift
[vagrant@rhel-cdk ~]$
```

**sudo netstat -anp | grep 2376**

Lists the process listening on port 2376

```
[vagrant@rhel-cdk ~]$ sudo netstat -anp | grep 2376
tcp6       0      0 :::2376               :::*                 LISTEN      13168/docker
[vagrant@rhel-cdk ~]$
```

This is particularly useful when another process is hanging out on a port you need, like if you started Apache on 80 or Tomcat on 8080.

**wget https://someurl.com/somefile.tar.gz**

wget is a useful utility for downloading files from any website. If installation is required, simply `sudo yum -y install wget`

```
[vagrant@rhel-cdk ~]$ sudo yum -y install wget
Loaded plugins: product-id, search-disabled-repos, subscription-manager
Resolving Dependencies
--> Running transaction check
--> Package wget.x86_64 0:1.14-10.el7_0.1 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
wget x86_64 1.14-10.el7_0.1 rhel-7-server-eus-rpms 546 k
=====
Transaction Summary
=====
Install 1 Package

Total download size: 546 k
Installed size: 2.0 M
Downloading packages:
wget-1.14-10.el7_0.1.x86_64.rpm | 546 kB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : wget-1.14-10.el7_0.1.x86_64 1/1
Verifying : wget-1.14-10.el7_0.1.x86_64 1/1

Installed:
wget.x86_64 0:1.14-10.el7_0.1
Complete!
[vagrant@rhel-cdk ~]$
```

**tar -xvf somefile.tar.gz**  
**tar -xvf somefile.tar.gz -C ~/so-**  
**medir**

Extracts/expands (think unzip) into current directory  
Expands into the "somedir" directory