

List of linux command used for session 1

```
dr-xr-xr-x. 18 root  root    255 Aug 27 17:48 ..
lrwxrwxrwx. 1 root  root      7 Jun  1 17:13 bin -> usr/bin
dr-xr-xr-x. 4 root  root   4096 Jun  1 17:18 boot
drwxr-xr-x. 17 root  root   2860 Aug 27 17:48 dev
drwxr-xr-x. 78 root  root   8192 Aug 27 17:48 etc
drwxr-xr-x. 3 root  root    21 Jun  1 17:17 home
lrwxrwxrwx. 1 root  root      7 Jun  1 17:13 lib -> usr/lib
lrwxrwxrwx. 1 root  root      9 Jun  1 17:13 lib64 -> usr/lib64
drwxr-xr-x. 2 root  root      6 Apr 11 2018 media
drwxr-xr-x. 2 root  root      6 Apr 11 2018 mnt
drwxr-xr-x. 2 root  root      6 Apr 11 2018 opt
dr-xr-xr-x. 90 root  root      0 Aug 27 17:48 proc
dr-xr-x---. 2 root  root    137 Jun  1 17:18 root
drwxr-xr-x. 24 root  root    760 Aug 27 17:48 run
lrwxrwxrwx. 1 root  root      8 Jun  1 17:13/sbin -> usr/sbin
drwxr-xr-x. 2 root  root      6 Apr 11 2018 srv
-rw-----. 1 root  root 2147483648 Jun  1 17:18 swapfile
dr-xr-xr-x. 13 root  root      0 Aug 27 17:48 sys
drwxrwxrwt. 8 root  root    172 Aug 27 18:53 tmp
drwxr-xr-x. 13 root  root    155 Jun  1 17:13 usr
drwxr-xr-x. 3 vagrant vagrant  37 Aug 27 17:47 vagrant
drwxr-xr-x. 18 root  root    254 Aug 27 17:48 var
[vagrant@localhost /]$ clear
```

```
[vagrant@localhost /]$ cd ~
[vagrant@localhost ~]$ ls
[vagrant@localhost ~]$ mkdir dir1
[vagrant@localhost ~]$ mkdir dir2
[vagrant@localhost ~]$ mkdir dir3 dir4 dir5
[vagrant@localhost ~]$ ls -l
total 0
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:49 dir1
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:49 dir2
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:50 dir3
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:50 dir4
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:50 dir5
[vagrant@localhost ~]$ cp dir1 dir2
cp: omitting directory 'dir1'
[vagrant@localhost ~]$ ls -l
total 0
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:49 dir1
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:49 dir2
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:50 dir3
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:50 dir4
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:50 dir5
[vagrant@localhost ~]$ cd dir1
[vagrant@localhost dir1]$ ls
[vagrant@localhost dir1]$ cd ..
[vagrant@localhost ~]$ ls
dir1 dir2 dir3 dir4 dir5
[vagrant@localhost ~]$ vim file1
-bash: vim: command not found
[vagrant@localhost ~]$ sudo yum install vim
Loaded plugins: fastestmirror
```

Determining fastest mirrors

* base: mirrors.mit.edu

* extras: mirrors.mit.edu

* updates: mirrors.mit.edu

base	3.6 kB	00:00
extras	3.4 kB	00:00
updates	3.4 kB	00:00
(1/4): base/7/x86_64/group_gz	166 kB	00:00
(2/4): extras/7/x86_64/primary_db	215 kB	00:00
(3/4): base/7/x86_64/primary_db	6.0 MB	00:00
(4/4): updates/7/x86_64/primary_db	7.4 MB	00:00

Resolving Dependencies

--> Running transaction check

---> Package vim-enhanced.x86_64 2:7.4.160-6.el7_6 will be installed

--> Processing Dependency: vim-common = 2:7.4.160-6.el7_6 for package: 2:vim-enhanced-7.4.160-6.el7_6.x86_64

--> Processing Dependency: perl(:MODULE_COMPAT_5.16.3) for package: 2:vim-enhanced-7.4.160-6.el7_6.x86_64

--> Processing Dependency: libperl.so()(64bit) for package: 2:vim-enhanced-7.4.160-6.el7_6.x86_64

--> Processing Dependency: libgpm.so.2()(64bit) for package: 2:vim-enhanced-7.4.160-6.el7_6.x86_64

--> Running transaction check

---> Package gpm-libs.x86_64 0:1.20.7-5.el7 will be installed

---> Package perl.x86_64 4:5.16.3-294.el7_6 will be installed

--> Processing Dependency: perl(Socket) >= 1.3 for package: 4:perl-5.16.3-294.el7_6.x86_64

--> Processing Dependency: perl(Scalar::Util) >= 1.10 for package: 4:perl-5.16.3-294.el7_6.x86_64

--> Processing Dependency: perl-macros for package: 4:perl-5.16.3-294.el7_6.x86_64

--> Processing Dependency: perl(threads::shared) for package: 4:perl-5.16.3-294.el7_6.x86_64

--> Processing Dependency: perl(threads) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(constant) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(Time::Local) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(Time::HiRes) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(Storable) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(Socket) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(Scalar::Util) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(Pod::Simple::XHTML) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(Pod::Simple::Search) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(Getopt::Long) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(Filter::Util::Call) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(File::Temp) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(File::Spec::Unix) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(File::Spec::Functions) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(File::Spec) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(File::Path) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(Exporter) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(Cwd) for package: 4:perl-5.16.3-294.el7_6.x86_64
--> Processing Dependency: perl(Carp) for package: 4:perl-5.16.3-294.el7_6.x86_64
---> Package perl-libs.x86_64 4:5.16.3-294.el7_6 will be installed
---> Package vim-common.x86_64 2:7.4.160-6.el7_6 will be installed
--> Processing Dependency: vim-filessystem for package: 2:vim-common-7.4.160-6.el7_6.x86_64
--> Running transaction check
---> Package perl-Carp.noarch 0:1.26-244.el7 will be installed
---> Package perl-Exporter.noarch 0:5.68-3.el7 will be installed
---> Package perl-File-Path.noarch 0:2.09-2.el7 will be installed

---> Package perl-File-Temp.noarch 0:0.23.01-3.el7 will be installed
---> Package perl-Filter.x86_64 0:1.49-3.el7 will be installed
---> Package perl-Getopt-Long.noarch 0:2.40-3.el7 will be installed
--> Processing Dependency: perl(Pod::Usage) >= 1.14 for package: perl-Getopt-Long-2.40-3.el7.noarch
--> Processing Dependency: perl(Text::ParseWords) for package: perl-Getopt-Long-2.40-3.el7.noarch
---> Package perl-PathTools.x86_64 0:3.40-5.el7 will be installed
---> Package perl-Pod-Simple.noarch 1:3.28-4.el7 will be installed
--> Processing Dependency: perl(Pod::Escapes) >= 1.04 for package: 1:perl-Pod-Simple-3.28-4.el7.noarch
--> Processing Dependency: perl(Encode) for package: 1:perl-Pod-Simple-3.28-4.el7.noarch
---> Package perl-Scalar-List-Utils.x86_64 0:1.27-248.el7 will be installed
---> Package perl-Socket.x86_64 0:2.010-4.el7 will be installed
---> Package perl-Storable.x86_64 0:2.45-3.el7 will be installed
---> Package perl-Time-HiRes.x86_64 4:1.9725-3.el7 will be installed
---> Package perl-Time-Local.noarch 0:1.2300-2.el7 will be installed
---> Package perl-constant.noarch 0:1.27-2.el7 will be installed
---> Package perl-macros.x86_64 4:5.16.3-294.el7_6 will be installed
---> Package perl-threads.x86_64 0:1.87-4.el7 will be installed
---> Package perl-threads-shared.x86_64 0:1.43-6.el7 will be installed
---> Package vim-filesystem.x86_64 2:7.4.160-6.el7_6 will be installed
--> Running transaction check
---> Package perl-Encode.x86_64 0:2.51-7.el7 will be installed
---> Package perl-Pod-Escapes.noarch 1:1.04-294.el7_6 will be installed
---> Package perl-Pod-Usage.noarch 0:1.63-3.el7 will be installed
--> Processing Dependency: perl(Pod::Text) >= 3.15 for package: perl-Pod-Usage-1.63-3.el7.noarch
--> Processing Dependency: perl-Pod-Perldoc for package: perl-Pod-Usage-1.63-3.el7.noarch
---> Package perl-Text-ParseWords.noarch 0:3.29-4.el7 will be installed

```
--> Running transaction check
---> Package perl-Pod-Perldoc.noarch 0:3.20-4.el7 will be installed
--> Processing Dependency: perl(parent) for package: perl-Pod-Perldoc-3.20-4.el7.noarch
--> Processing Dependency: perl(HTTP::Tiny) for package: perl-Pod-Perldoc-3.20-4.el7.noarch
---> Package perl-podlators.noarch 0:2.5.1-3.el7 will be installed
--> Running transaction check
---> Package perl-HTTP-Tiny.noarch 0:0.033-3.el7 will be installed
---> Package perl-parent.noarch 1:0.225-244.el7 will be installed
--> Finished Dependency Resolution
```

Dependencies Resolved

```
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=====
Package            Arch      Version      Repository    Size
=====
=====
```

Installing:

```
vim-enhanced      x86_64    2:7.4.160-6.el7_6    updates      1.0 M
```

Installing for dependencies:

```
gpm-libs          x86_64    1.20.7-5.el7        base         32 k
perl              x86_64    4:5.16.3-294.el7_6   updates      8.0 M
perl-Carp          noarch    1.26-244.el7         base         19 k
perl-Encode        x86_64    2.51-7.el7          base         1.5 M
perl-Exporter      noarch    5.68-3.el7          base         28 k
perl-File-Path     noarch    2.09-2.el7          base         26 k
perl-File-Temp     noarch    0.23.01-3.el7        base         56 k
perl-Filter        x86_64    1.49-3.el7          base         76 k
perl-Getopt-Long   noarch    2.40-3.el7          base         56 k
perl-HTTP-Tiny     noarch    0.033-3.el7          base         38 k
```

perl-PathTools	x86_64	3.40-5.el7	base	82 k
perl-Pod-Escapes	noarch	1:1.04-294.el7_6	updates	51 k
perl-Pod-Perldoc	noarch	3.20-4.el7	base	87 k
perl-Pod-Simple	noarch	1:3.28-4.el7	base	216 k
perl-Pod-Usage	noarch	1.63-3.el7	base	27 k
perl-Scalar-List-Utils	x86_64	1.27-248.el7	base	36 k
perl-Socket	x86_64	2.010-4.el7	base	49 k
perl-Storable	x86_64	2.45-3.el7	base	77 k
perl-Text-ParseWords	noarch	3.29-4.el7	base	14 k
perl-Time-HiRes	x86_64	4:1.9725-3.el7	base	45 k
perl-Time-Local	noarch	1.2300-2.el7	base	24 k
perl-constant	noarch	1.27-2.el7	base	19 k
perl-libs	x86_64	4:5.16.3-294.el7_6	updates	688 k
perl-macros	x86_64	4:5.16.3-294.el7_6	updates	44 k
perl-parent	noarch	1:0.225-244.el7	base	12 k
perl-podlators	noarch	2.5.1-3.el7	base	112 k
perl-threads	x86_64	1.87-4.el7	base	49 k
perl-threads-shared	x86_64	1.43-6.el7	base	39 k
vim-common	x86_64	2:7.4.160-6.el7_6	updates	5.9 M
vim-filesystem	x86_64	2:7.4.160-6.el7_6	updates	10 k

Transaction Summary

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Install 1 Package (+30 Dependent packages)

Total download size: 18 M

Installed size: 60 M

Is this ok [y/d/N]: y

Downloading packages:

warning: /var/cache/yum/x86_64/7/base/packages/gpm-libs-1.20.7-5.el7.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID f4a80eb5: NOKEY

Public key for gpm-libs-1.20.7-5.el7.x86_64.rpm is not installed

(1/31): gpm-libs-1.20.7-5.el7.x86_64.rpm	32 kB	00:00
(2/31): perl-File-Path-2.09-2.el7.noarch.rpm	26 kB	00:00
(3/31): perl-Exporter-5.68-3.el7.noarch.rpm	28 kB	00:00
(4/31): perl-File-Temp-0.23.01-3.el7.noarch.rpm	56 kB	00:00
(5/31): perl-Carp-1.26-244.el7.noarch.rpm	19 kB	00:00
(6/31): perl-Filter-1.49-3.el7.x86_64.rpm	76 kB	00:00
(7/31): perl-Getopt-Long-2.40-3.el7.noarch.rpm	56 kB	00:00
(8/31): perl-PathTools-3.40-5.el7.x86_64.rpm	82 kB	00:00
(9/31): perl-HTTP-Tiny-0.033-3.el7.noarch.rpm	38 kB	00:00
(10/31): perl-Pod-Perldoc-3.20-4.el7.noarch.rpm	87 kB	00:00

Public key for perl-Pod-Escapes-1.04-294.el7_6.noarch.rpm is not installed

(11/31): perl-Pod-Escapes-1.04-294.el7_6.noarch.rpm	51 kB	00:00
(12/31): perl-Pod-Usage-1.63-3.el7.noarch.rpm	27 kB	00:00
(13/31): perl-Scalar-List-Utils-1.27-248.el7.x86_64.rpm	36 kB	00:00
(14/31): perl-Socket-2.010-4.el7.x86_64.rpm	49 kB	00:00
(15/31): perl-Pod-Simple-3.28-4.el7.noarch.rpm	216 kB	00:00
(16/31): perl-Encode-2.51-7.el7.x86_64.rpm	1.5 MB	00:00
(17/31): perl-Storable-2.45-3.el7.x86_64.rpm	77 kB	00:00
(18/31): perl-Text-ParseWords-3.29-4.el7.noarch.rpm	14 kB	00:00
(19/31): perl-Time-Local-1.2300-2.el7.noarch.rpm	24 kB	00:00
(20/31): perl-Time-HiRes-1.9725-3.el7.x86_64.rpm	45 kB	00:00
(21/31): perl-constant-1.27-2.el7.noarch.rpm	19 kB	00:00
(22/31): perl-podlators-2.5.1-3.el7.noarch.rpm	112 kB	00:00
(23/31): perl-libs-5.16.3-294.el7_6.x86_64.rpm	688 kB	00:00
(24/31): perl-threads-1.87-4.el7.x86_64.rpm	49 kB	00:00
(25/31): perl-5.16.3-294.el7_6.x86_64.rpm	8.0 MB	00:00
(26/31): vim-enhanced-7.4.160-6.el7_6.x86_64.rpm	1.0 MB	00:00

(27/31): vim-common-7.4.160-6.el7_6.x86_64.rpm | 5.9 MB 00:00
(28/31): vim-filesystem-7.4.160-6.el7_6.x86_64.rpm | 10 kB 00:00
(29/31): perl-parent-0.225-244.el7.noarch.rpm | 12 kB 00:00
(30/31): perl-threads-shared-1.43-6.el7.x86_64.rpm | 39 kB 00:00
(31/31): perl-macros-5.16.3-294.el7_6.x86_64.rpm | 44 kB 00:00

Total 17 MB/s | 18 MB 00:01

Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

Importing GPG key 0xF4A80EB5:

Userid : "CentOS-7 Key (CentOS 7 Official Signing Key) <security@centos.org>"

Fingerprint: 6341 ab27 53d7 8a78 a7c2 7bb1 24c6 a8a7 f4a8 0eb5

Package : centos-release-7-6.1810.2.el7.centos.x86_64 (@anaconda)

From : /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

Is this ok [y/N]: y

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : 1:perl-parent-0.225-244.el7.noarch	1/31
Installing : perl-HTTP-Tiny-0.033-3.el7.noarch	2/31
Installing : perl-podlators-2.5.1-3.el7.noarch	3/31
Installing : perl-Pod-Perldoc-3.20-4.el7.noarch	4/31
Installing : 1:perl-Pod-Escapes-1.04-294.el7_6.noarch	5/31
Installing : perl-Encode-2.51-7.el7.x86_64	6/31
Installing : perl-Text-ParseWords-3.29-4.el7.noarch	7/31
Installing : perl-Pod-Usage-1.63-3.el7.noarch	8/31
Installing : 4:perl-libs-5.16.3-294.el7_6.x86_64	9/31
Installing : 4:perl-macros-5.16.3-294.el7_6.x86_64	10/31
Installing : perl-Storable-2.45-3.el7.x86_64	11/31
Installing : perl-Exporter-5.68-3.el7.noarch	12/31

Installing : perl-constant-1.27-2.el7.noarch	13/31
Installing : perl-Time-Local-1.2300-2.el7.noarch	14/31
Installing : perl-Socket-2.010-4.el7.x86_64	15/31
Installing : perl-Carp-1.26-244.el7.noarch	16/31
Installing : 4:perl-Time-HiRes-1.9725-3.el7.x86_64	17/31
Installing : perl-PathTools-3.40-5.el7.x86_64	18/31
Installing : perl-Scalar-List-Utils-1.27-248.el7.x86_64	19/31
Installing : 1:perl-Pod-Simple-3.28-4.el7.noarch	20/31
Installing : perl-File-Temp-0.23.01-3.el7.noarch	21/31
Installing : perl-File-Path-2.09-2.el7.noarch	22/31
Installing : perl-threads-shared-1.43-6.el7.x86_64	23/31
Installing : perl-threads-1.87-4.el7.x86_64	24/31
Installing : perl-Filter-1.49-3.el7.x86_64	25/31
Installing : perl-Getopt-Long-2.40-3.el7.noarch	26/31
Installing : 4:perl-5.16.3-294.el7_6.x86_64	27/31
Installing : gpm-libs-1.20.7-5.el7.x86_64	28/31
Installing : 2:vim-filesystem-7.4.160-6.el7_6.x86_64	29/31
Installing : 2:vim-common-7.4.160-6.el7_6.x86_64	30/31
Installing : 2:vim-enhanced-7.4.160-6.el7_6.x86_64	31/31
Verifying : perl-HTTP-Tiny-0.033-3.el7.noarch	1/31
Verifying : perl-threads-shared-1.43-6.el7.x86_64	2/31
Verifying : perl-Storable-2.45-3.el7.x86_64	3/31
Verifying : 1:perl-Pod-Escapes-1.04-294.el7_6.noarch	4/31
Verifying : perl-Exporter-5.68-3.el7.noarch	5/31
Verifying : perl-constant-1.27-2.el7.noarch	6/31
Verifying : perl-PathTools-3.40-5.el7.x86_64	7/31
Verifying : 2:vim-filesystem-7.4.160-6.el7_6.x86_64	8/31
Verifying : 1:perl-parent-0.225-244.el7.noarch	9/31
Verifying : 4:perl-libs-5.16.3-294.el7_6.x86_64	10/31
Verifying : perl-File-Temp-0.23.01-3.el7.noarch	11/31

Verifying : 1:perl-Pod-Simple-3.28-4.el7.noarch	12/31
Verifying : perl-Time-Local-1.2300-2.el7.noarch	13/31
Verifying : gpm-libs-1.20.7-5.el7.x86_64	14/31
Verifying : 4:perl-macros-5.16.3-294.el7_6.x86_64	15/31
Verifying : perl-Socket-2.010-4.el7.x86_64	16/31
Verifying : perl-Carp-1.26-244.el7.noarch	17/31
Verifying : 4:perl-Time-HiRes-1.9725-3.el7.x86_64	18/31
Verifying : perl-Scalar-List-Utills-1.27-248.el7.x86_64	19/31
Verifying : 2:vim-common-7.4.160-6.el7_6.x86_64	20/31
Verifying : perl-Pod-Usage-1.63-3.el7.noarch	21/31
Verifying : perl-Encode-2.51-7.el7.x86_64	22/31
Verifying : 2:vim-enhanced-7.4.160-6.el7_6.x86_64	23/31
Verifying : perl-Pod-Perldoc-3.20-4.el7.noarch	24/31
Verifying : perl-podlators-2.5.1-3.el7.noarch	25/31
Verifying : perl-File-Path-2.09-2.el7.noarch	26/31
Verifying : perl-threads-1.87-4.el7.x86_64	27/31
Verifying : perl-Filter-1.49-3.el7.x86_64	28/31
Verifying : perl-Getopt-Long-2.40-3.el7.noarch	29/31
Verifying : perl-Text-ParseWords-3.29-4.el7.noarch	30/31
Verifying : 4:perl-5.16.3-294.el7_6.x86_64	31/31

Installed:

vim-enhanced.x86_64 2:7.4.160-6.el7_6

Dependency Installed:

gpm-libs.x86_64 0:1.20.7-5.el7

perl.x86_64 4:5.16.3-294.el7_6

perl-Carp.noarch 0:1.26-244.el7

perl-Encode.x86_64 0:2.51-7.el7

perl-Exporter.noarch 0:5.68-3.el7

perl-File-Path.noarch 0:2.09-2.el7
perl-File-Temp.noarch 0:0.23.01-3.el7
perl-Filter.x86_64 0:1.49-3.el7
perl-Getopt-Long.noarch 0:2.40-3.el7
perl-HTTP-Tiny.noarch 0:0.033-3.el7
perl-PathTools.x86_64 0:3.40-5.el7
perl-Pod-Escapes.noarch 1:1.04-294.el7_6
perl-Pod-Perldoc.noarch 0:3.20-4.el7
perl-Pod-Simple.noarch 1:3.28-4.el7
perl-Pod-Usage.noarch 0:1.63-3.el7
perl-Scalar-List-Utills.x86_64 0:1.27-248.el7
perl-Socket.x86_64 0:2.010-4.el7
perl-Storable.x86_64 0:2.45-3.el7
perl-Text-ParseWords.noarch 0:3.29-4.el7
perl-Time-HiRes.x86_64 4:1.9725-3.el7
perl-Time-Local.noarch 0:1.2300-2.el7
perl-constant.noarch 0:1.27-2.el7
perl-libs.x86_64 4:5.16.3-294.el7_6
perl-macros.x86_64 4:5.16.3-294.el7_6
perl-parent.noarch 1:0.225-244.el7
perl-podlators.noarch 0:2.5.1-3.el7
perl-threads.x86_64 0:1.87-4.el7
perl-threads-shared.x86_64 0:1.43-6.el7
vim-common.x86_64 2:7.4.160-6.el7_6
vim-filesystem.x86_64 2:7.4.160-6.el7_6

Complete!

[vagrant@localhost ~]\$ vim file1

[vagrant@localhost ~]\$ ls -l

total 4

```
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:49 dir1
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:49 dir2
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:50 dir3
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:50 dir4
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:50 dir5
-rw-rw-r--. 1 vagrant vagrant 20 Aug 27 19:53 file1
[vagrant@localhost ~]$ cp file1 dir1
[vagrant@localhost ~]$ ls
dir1 dir2 dir3 dir4 dir5 file1
[vagrant@localhost ~]$ ls -l
total 4
drwxrwxr-x. 2 vagrant vagrant 19 Aug 27 20:04 dir1
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:49 dir2
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:50 dir3
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:50 dir4
drwxrwxr-x. 2 vagrant vagrant 6 Aug 27 19:50 dir5
-rw-rw-r--. 1 vagrant vagrant 20 Aug 27 19:53 file1
[vagrant@localhost ~]$ cd dir1
[vagrant@localhost dir1]$ ls
file1
[vagrant@localhost dir1]$ cd ..
[vagrant@localhost ~]$ cd dir1
[vagrant@localhost dir1]$ cat file1
this is the file 1.
[vagrant@localhost dir1]$ cd ..
[vagrant@localhost ~]$ ls
dir1 dir2 dir3 dir4 dir5 file1
[vagrant@localhost ~]$ rm file1
[vagrant@localhost ~]$ ls
dir1 dir2 dir3 dir4 dir5
```

```
[vagrant@localhost ~]$ cd dir1
[vagrant@localhost dir1]$ ls
file1
[vagrant@localhost dir1]$ echo "file 2 created" > file2
[vagrant@localhost dir1]$ ls
file1 file2
[vagrant@localhost dir1]$ cp file2 dir2
[vagrant@localhost dir1]$ ls
dir2 file1 file2
[vagrant@localhost dir1]$ cd ..
[vagrant@localhost ~]$ ls
dir1 dir2 dir3 dir4 dir5
[vagrant@localhost ~]$ cd dir1
[vagrant@localhost dir1]$ cat dir2
file 2 created
[vagrant@localhost dir1]$ rm dir2
[vagrant@localhost dir1]$ ls
file1 file2
[vagrant@localhost dir1]$ sudo yum install tree
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
* base: mirrors.mit.edu
* extras: mirrors.mit.edu
* updates: mirrors.mit.edu
Resolving Dependencies
--> Running transaction check
---> Package tree.x86_64 0:1.6.0-10.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved
```

=====

=====

Package	Arch	Version	Repository	Size
---------	------	---------	------------	------

=====

=====

Installing:

tree	x86_64	1.6.0-10.el7	base	46 k
------	--------	--------------	------	------

Transaction Summary

=====

=====

Install 1 Package

Total download size: 46 k

Installed size: 87 k

Is this ok [y/d/N]: y

Downloading packages:

tree-1.6.0-10.el7.x86_64.rpm	46 kB	00:00
------------------------------	-------	-------

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : tree-1.6.0-10.el7.x86_64	1/1
---------------------------------------	-----

Verifying : tree-1.6.0-10.el7.x86_64	1/1
--------------------------------------	-----

Installed:

tree.x86_64 0:1.6.0-10.el7

Complete!

```
[vagrant@localhost dir1]$ tree dir1
dir1 [error opening dir]
```

0 directories, 0 files

```
[vagrant@localhost dir1]$ ls
```

file1 file2

```
[vagrant@localhost dir1]$ cd ..
```

```
[vagrant@localhost ~]$ tree dir1
```

dir1

├── file1

└── file2

0 directories, 2 files

```
[vagrant@localhost ~]$ cd dir1
```

```
[vagrant@localhost dir1]$ mkdir dir11
```

```
[vagrant@localhost dir1]$ cp file1 file2 dir11
```

```
[vagrant@localhost dir1]$ cd ..
```

```
[vagrant@localhost ~]$ tree dir 11
```

dir [error opening dir]

11 [error opening dir]

0 directories, 0 files

```
[vagrant@localhost ~]$ ls
```

dir1 dir2 dir3 dir4 dir5

```
[vagrant@localhost ~]$ tree dir1
```

dir1

├── dir11

| ├── file1

| └── file2

└── file1

└─ file2

1 directory, 4 files

```
[vagrant@localhost ~]$ rm dir1
```

rm: cannot remove 'dir1': Is a directory

```
[vagrant@localhost ~]$ rm dir5
```

rm: cannot remove 'dir5': Is a directory

```
[vagrant@localhost ~]$ rm -rf dir5
```

```
[vagrant@localhost ~]$ ls
```

dir1 dir2 dir3 dir4

```
[vagrant@localhost ~]$ rm -rf dir4
```

```
[vagrant@localhost ~]$ cd dir1
```

```
[vagrant@localhost dir1]$ ls
```

dir11 file1 file2

```
[vagrant@localhost dir1]$ cat file1
```

this is the file 1.

```
[vagrant@localhost dir1]$ cat file2
```

file 2 created

```
[vagrant@localhost dir1]$ echo "hi this is file 3" > file3
```

```
[vagrant@localhost dir1]$ cat file3
```

hi this is file 3

```
[vagrant@localhost dir1]$ touch file4
```

```
[vagrant@localhost dir1]$ cat file1 file2 file3 >> file4
```

```
[vagrant@localhost dir1]$ cat file4
```

this is the file 1.

file 2 created

hi this is file 3

```
[vagrant@localhost dir1]$ head-1 file4
```

-bash: head-1: command not found

```
[vagrant@localhost dir1]$ head -1 file4
```

this is the file 1.

```
[vagrant@localhost dir1]$ head -2 file4
```

this is the file 1.

file 2 created

```
[vagrant@localhost dir1]$ head -3 file4
```

this is the file 1.

file 2 created

hi this is file 3

```
[vagrant@localhost dir1]$ tail -2 file4
```

file 2 created

hi this is file 3

```
[vagrant@localhost dir1]$ sudo tail -f /va
```

vagrant/ var/

```
[vagrant@localhost dir1]$ sudo tail -f /va
```

vagrant/ var/

```
[vagrant@localhost dir1]$ sudo tail -f /va
```

vagrant/ var/

```
[vagrant@localhost dir1]$ sudo tail -f /var/l
```

lib/ local/ lock/ log/

```
[vagrant@localhost dir1]$ sudo tail -f /var/l
```

lib/ local/ lock/ log/

```
[vagrant@localhost dir1]$ sudo tail -f /var/l
```

lib/ local/ lock/ log/

```
[vagrant@localhost dir1]$ sudo tail -f /var/log/
```

anaconda/ lastlog spooler

audit/ maillog tallylog

btmpt messages tuned/

chrony/ qemu-ga/ wtmp

cron rhsm/ yum.log

dmesg samba/

```
grubby_prune_debug secure
```

```
[vagrant@localhost dir1]$ sudo tail -f /var/log/
```

```
anaconda/      lastlog      spooler
```

```
audit/         maillog      tallylog
```

```
btmptmp        messages     tuned/
```

```
chrony/        qemu-ga/     wtmp
```

```
cron           rhsm/        yum.log
```

```
dmesg          samba/
```

```
grubby_prune_debug secure
```

```
[vagrant@localhost dir1]$ sudo tail -f /var/log/messages
```

```
Aug 27 19:52:58 localhost yum[23161]: Installed: perl-Getopt-Long-2.40-3.el7.noarch
```

```
Aug 27 19:53:00 localhost yum[23161]: Installed: 4:perl-5.16.3-294.el7_6.x86_64
```

```
Aug 27 19:53:00 localhost yum[23161]: Installed: gpm-libs-1.20.7-5.el7.x86_64
```

```
Aug 27 19:53:00 localhost yum[23161]: Installed: 2:vim-filesystem-7.4.160-6.el7_6.x86_64
```

```
Aug 27 19:53:02 localhost yum[23161]: Installed: 2:vim-common-7.4.160-6.el7_6.x86_64
```

```
Aug 27 19:53:02 localhost yum[23161]: Installed: 2:vim-enhanced-7.4.160-6.el7_6.x86_64
```

```
Aug 27 20:01:01 localhost systemd: Created slice User Slice of root.
```

```
Aug 27 20:01:01 localhost systemd: Started Session 8 of user root.
```

```
Aug 27 20:01:01 localhost systemd: Removed slice User Slice of root.
```

```
Aug 27 20:11:53 localhost yum[23262]: Installed: tree-1.6.0-10.el7.x86_64
```

```
^C
```

```
[vagrant@localhost dir1]$ sudo apt-get install vim
```

```
sudo: apt-get: command not found
```

```
[vagrant@localhost dir1]$ apt-get install vim
```

```
-bash: apt-get: command not found
```

```
[vagrant@localhost dir1]$ sudo yum install vim
```

```
Loaded plugins: fastestmirror
```

```
Loading mirror speeds from cached hostfile
```

```
* base: mirrors.mit.edu
```

```
* extras: mirrors.mit.edu
```

* updates: mirrors.mit.edu

Package 2:vim-enhanced-7.4.160-6.el7_6.x86_64 already installed and latest version

Nothing to do

```
[vagrant@localhost dir1]$ ls
```

```
dir11 file1 file2 file3 file4
```

```
[vagrant@localhost dir1]$ mv ../file1
```

```
mv: missing destination file operand after '../file1'
```

Try 'mv --help' for more information.

```
[vagrant@localhost dir1]$ mv ../file1 .
```

```
mv: cannot stat '../file1': No such file or directory
```

```
[vagrant@localhost dir1]$ mv ../file1 .
```

```
mv: cannot stat '../file1': No such file or directory
```

```
[vagrant@localhost dir1]$ mv --help
```

```
Usage: mv [OPTION]... [-T] SOURCE DEST
```

```
or: mv [OPTION]... SOURCE... DIRECTORY
```

```
or: mv [OPTION]... -t DIRECTORY SOURCE...
```

Rename SOURCE to DEST, or move SOURCE(s) to DIRECTORY.

Mandatory arguments to long options are mandatory for short options too.

 --backup[=CONTROL] make a backup of each existing destination file

-b like --backup but does not accept an argument

-f, --force do not prompt before overwriting

-i, --interactive prompt before overwrite

-n, --no-clobber do not overwrite an existing file

If you specify more than one of -i, -f, -n, only the final one takes effect.

 --strip-trailing-slashes remove any trailing slashes from each SOURCE
 argument

-S, --suffix=SUFFIX override the usual backup suffix

-t, --target-directory=DIRECTORY move all SOURCE arguments into DIRECTORY

-T, --no-target-directory treat DEST as a normal file

-u, --update move only when the SOURCE file is newer
 than the destination file or when the
 destination file is missing

-v, --verbose explain what is being done

-Z, --context set SELinux security context of destination
 file to default type

--help display this help and exit

--version output version information and exit

The backup suffix is '~', unless set with --suffix or SIMPLE_BACKUP_SUFFIX.
The version control method may be selected via the --backup option or through
the VERSION_CONTROL environment variable. Here are the values:

none, off never make backups (even if --backup is given)

numbered, t make numbered backups

existing, nil numbered if numbered backups exist, simple otherwise

simple, never always make simple backups

GNU coreutils online help: <<http://www.gnu.org/software/coreutils/>>

For complete documentation, run: info coreutils 'mv invocation'

```
[vagrant@localhost dir1]$ ls
```

```
dir11 file1 file2 file3 file4
```

```
[vagrant@localhost dir1]$ mv file1 ../
```

```
[vagrant@localhost dir1]$ ls
```

```
dir11 file2 file3 file4
```

```
[vagrant@localhost dir1]$ cd ..
```

```
[vagrant@localhost ~]$ ls
```

```
dir1 dir2 dir3 file1
```

```
[vagrant@localhost ~]$ cp file1 dir1
```

```
[vagrant@localhost ~]$ ls
```

dir1 dir2 dir3 file1

```
[vagrant@localhost ~]$ cd dir1
```

```
[vagrant@localhost dir1]$ ls
```

dir11 file1 file2 file3 file4

```
[vagrant@localhost dir1]$ cp file2../.
```

cp: missing destination file operand after 'file2../.'

Try 'cp --help' for more information.

```
[vagrant@localhost dir1]$ ls
```

dir11 file1 file2 file3 file4

```
[vagrant@localhost dir1]$ cat file4
```

this is the file 1.

file 2 created

hi this is file 3

```
[vagrant@localhost dir1]$ cat file4 | grep 'created'
```

file 2 **created**

```
[vagrant@localhost dir1]$ cat file4 | grep 'none'
```

```
[vagrant@localhost dir1]$ cat file4 | grep 'this'
```

this is the file 1.

hi **this** is file 3

```
[vagrant@localhost dir1]$ history
```

1 ls -l

2 pwd

3 cd ../

4 cd ../

5 ls

6 pwd

7 cd ..

8 pwd

9 pwd

10 ls -l

```
11 cd ~
12 pwd
13 logout
14 ls -l
15 cd /
16 cd ~
17 ls -l
18 pwd
19 cd /
20 whoami
21 echo $USER
22 ls
23 ls -l
24 ls -la
25 clear
26 cd ~
27 ls
28 mkdir dir1
29 mkdir dir2
30 mkdir dir3 dir4 dir5
31 ls -l
32 cp dir1 dir2
33 ls -l
34 cd dir1
35 ls
36 cd ..
37 ls
38 vim file1
39 sudo yum install vim
40 vim file1
```

```
41 ls -l
42 cp file1 dir1
43 ls
44 ls -l
45 cd dir1
46 ls
47 cd ..
48 cd dir1
49 cat file1
50 cd ..
51 ls
52 rm file1
53 ls
54 cd dir1
55 ls
56 echo "file 2 created" > file2
57 ls
58 cp file2 dir2
59 ls
60 cd ..
61 ls
62 cd dir1
63 cat dir2
64 rm dir2
65 ls
66 sudo yum install tree
67 tree dir1
68 ls
69 cd ..
70 tree dir1
```



```
71 cd dir1
72 mkdir dir11
73 cp file1 file2 dir11
74 cd ..
75 tree dir 11
76 ls
77 tree dir1
78 rm dir1
79 rm dir5
80 rm -rf dir5
81 ls
82 rm -rf dir4
83 cd dir1
84 ls
85 cat file1
86 cat file2
87 echo "hi this is file 3" > file3
88 cat file3
89 touch file4
90 cat file1 file2 file3 >> file4
91 cat file4
92 head-1 file4
93 head -1 file4
94 head -2 file4
95 head -3 file4
96 tail -2 file4
97 sudo tail -f /var/log/messages
98 sudo apt-get install vim
99 apt-get install vim
100 sudo yum install vim
```

```
101 ls
102 mv ../file1
103 mv ../file1 .
104 mv --help
105 ls
106 mv file1 ../.
107 ls
108 cd ..
109 ls
110 cp file1 dir1
111 ls
112 cd dir1
113 ls
114 cp file2../.
115 ls
116 cat file4
117 cat file4 | grep 'created'
118 cat file4 | grep 'none'
119 cat file4 | grep 'this'
120 history
[vagrant@localhost dir1]$
```