

Module 1: Installation & Initialization

Assignment

```
[akmtir@localhost ~]$ whoami
```

```
akmtir
```

```
[root@localhost ~]# uname -a
```

```
Linux localhost.localdomain 3.10.0-514.el7.x86_64 #1 SMP Tue Nov 22 16:42:41 UTC 2016 x86_64  
x86_64 x86_64 GNU/Linux
```

```
[akmtir@localhost ~]$ su -
```

```
Password:
```

```
Last login: Sun Apr 23 01:40:43 CEST 2017 on pts/0
```

```
[root@localhost ~]# pwd; whoami
```

```
/root
```

```
root
```

```
[root@localhost ~]# ls /etc/ | wc -l
```

```
282
```

```
[root@localhost ~]# ls -lahi /etc/ | head -5
```

```
total 1.9M
```

```
420161 drwxr-xr-x. 139 root root 12K Apr 23 13:03 .
```

```
2 dr-xr-xr-x. 18 root root 4.0K Apr 22 21:59 ..
```

```
18706 drwxr-xr-x. 3 root root 4.0K Apr 22 21:45 abrt
```

```
425835 -rw-r--r--. 1 root root 16 Apr 22 21:59 adjtime
```

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

```
anaconda-ks.cfg initial-setup-ks.cfg
```

```
[root@localhost ~]# mkdir /software
```

```
[root@localhost ~]# ls -lih
```

```
total 8.0K
```

```
20003 -rw-----. 1 root root 2.0K Apr 22 21:59 anaconda-ks.cfg
```

```
20019 -rw-r--r--. 1 root root 2.0K Apr 22 22:03 initial-setup-ks.cfg
```

```
[root@localhost ~]# ls -lih /
```

```
total 70K
```

```
3559 -rw-r--r--. 1 root root 0 Apr 22 21:47 1
```

```
17 lrwxrwxrwx. 1 root root 7 Apr 22 21:40 bin -> usr/bin
```

```
2 dr-xr-xr-x. 5 root root 1.0K Apr 22 22:03 boot
```

```
1026 drwxr-xr-x. 18 root root 3.0K Apr 23 13:02 dev
```

```
420161 drwxr-xr-x. 139 root root 12K Apr 23 13:03 etc
```

```
476721 drwxr-xr-x. 3 root root 4.0K Apr 22 21:59 home
```

```
13 lrwxrwxrwx. 1 root root 7 Apr 22 21:40 lib -> usr/lib
```

```
15 lrwxrwxrwx. 1 root root 9 Apr 22 21:40 lib64 -> usr/lib64
```

```
11 drwx-----. 2 root root 16K Apr 22 21:40 lost+found
```

```
185841 drwxr-xr-x. 2 root root 4.0K Nov 5 16:38 media
```

```
48481 drwxr-xr-x. 2 root root 4.0K Nov 5 16:38 mnt
```

```
210081 drwxr-xr-x. 3 root root 4.0K Apr 22 21:53 opt
```

```
1 dr-xr-xr-x. 165 root root 0 Apr 23 13:02 proc
```

```
16161 dr-xr-x---. 5 root root 4.0K Apr 23 13:04 root
7590 drwxr-xr-x. 38 root root 1.2K Apr 23 13:05 run
  16 lrwxrwxrwx. 1 root root 8 Apr 22 21:40 sbin -> usr/sbin
161624 drwxr-xr-x. 2 root root 4.0K Apr 23 13:07 software
72721 drwxr-xr-x. 2 root root 4.0K Nov 5 16:38 srv
  1 dr-xr-xr-x. 13 root root 0 Apr 23 13:02 sys
468641 drwxrwxrwt. 15 root root 4.0K Apr 23 13:05 tmp
355521 drwxr-xr-x. 13 root root 4.0K Apr 22 21:40 usr
169681 drwxr-xr-x. 21 root root 4.0K Apr 23 13:02 var
```

[root@localhost ~]# touch /software/sample

[root@localhost ~]#

[root@localhost ~]# ls -lih /software/sample

```
161625 -rw-r--r--. 1 root root 0 Apr 23 13:08 /software/sample
```

[root@localhost ~]# file /software/sample

/software/sample: empty

[root@localhost ~]# tar -cvjf home.bak.tar.bz2 /home

tar: Removing leading `/' from member names

/home/

/home/akmtir/

/home/akmtir/.bash_logout

/home/akmtir/.bash_profile

/home/akmtir/Desktop/

/home/akmtir/Desktop/dir1/

/home/akmtir/Desktop/dir1/dir2/

/home/akmtir/Desktop/dir1/dir2/dir3/

/home/akmtir/Desktop/dir1/file

/home/akmtir/Public/

/home/akmtir/.cache/

/home/akmtir/.cache/gdm/

/home/akmtir/.cache/gdm/session.log.old

/home/akmtir/.cache/gdm/session.log

/home/akmtir/.cache/abrt/

/home/akmtir/.cache/abrt/applet_dirlist

/home/akmtir/.cache/abrt/lastnotification

/home/akmtir/.cache/webkit/

/home/akmtir/.cache/webkit/icondatabase/

/home/akmtir/.cache/webkit/icondatabase/WebpageIcons.db

/home/akmtir/.cache/tracker/

/home/akmtir/.cache/tracker/first-index.txt

/home/akmtir/.cache/tracker/meta.db-wal

/home/akmtir/.cache/tracker/db-version.txt

/home/akmtir/.cache/tracker/meta.db-shm

/home/akmtir/.cache/tracker/db-locale.txt

/home/akmtir/.cache/tracker/ontologies.gvdb

/home/akmtir/.cache/tracker/no-need-mtime-check.txt.5AQ7YY

/home/akmtir/.cache/tracker/miner-applications-locale.txt

/home/akmtir/.cache/tracker/last-crawl.txt

/home/akmtir/.cache/tracker/meta.db

/home/akmtir/.cache/thumbnails/
/home/akmtir/.cache/thumbnails/normal/
/home/akmtir/.cache/thumbnails/normal/af6acdd6d38b6b1b5741fef41a009a7f.png
/home/akmtir/.cache/thumbnails/normal/15e6907217088d150111b16a6238fe2b.png
/home/akmtir/.cache/thumbnails/fail/
/home/akmtir/.cache/thumbnails/fail/gnome-thumbnail-factory/
/home/akmtir/.cache/thumbnails/fail/gnome-thumbnail-
factory/05e29bc60b9f79b9aa80c6ab93a31d00.png
/home/akmtir/.cache/evolution/
/home/akmtir/.cache/evolution/tasks/
/home/akmtir/.cache/evolution/tasks/trash/
/home/akmtir/.cache/evolution/mail/
/home/akmtir/.cache/evolution/mail/trash/
/home/akmtir/.cache/evolution/sources/
/home/akmtir/.cache/evolution/sources/trash/
/home/akmtir/.cache/evolution/memos/
/home/akmtir/.cache/evolution/memos/trash/
/home/akmtir/.cache/evolution/calendar/
/home/akmtir/.cache/evolution/calendar/trash/
/home/akmtir/.cache/evolution/addressbook/
/home/akmtir/.cache/evolution/addressbook/trash/
/home/akmtir/.cache/gnome-shell/
/home/akmtir/.cache/gnome-shell/update-check-3.14
/home/akmtir/.cache/event-sound-cache.tdb.localhost.localdomain.x86_64-redhat-linux-gnu
/home/akmtir/.cache/imsettings/
/home/akmtir/.cache/imsettings/log.bak
/home/akmtir/.cache/imsettings/log
/home/akmtir/.cache/gstreamer-1.0/
/home/akmtir/.cache/gstreamer-1.0/registry.x86_64.bin
/home/akmtir/.bash_history
/home/akmtir/Pictures/
/home/akmtir/.config/
/home/akmtir/.config/gtk-3.0/
/home/akmtir/.config/gtk-3.0/bookmarks
/home/akmtir/.config/ibus/
/home/akmtir/.config/ibus/bus/
/home/akmtir/.config/ibus/bus/f11dcd3970854e93932f8e39091ce31b-unix-0
/home/akmtir/.config/abrt/
/home/akmtir/.config/dconf/
/home/akmtir/.config/dconf/user
/home/akmtir/.config/user-dirs.dirs
/home/akmtir/.config/tracker/
/home/akmtir/.config/gconf/
/home/akmtir/.config/evolution/
/home/akmtir/.config/evolution/sources/
/home/akmtir/.config/evolution/sources/system-proxy.source
/home/akmtir/.config/gnome-session/
/home/akmtir/.config/gnome-session/saved-session/
/home/akmtir/.config/nautilus/

/home/akmtir/.config/nautilus/desktop-metadata
/home/akmtir/.config/nautilus/accels
/home/akmtir/.config/gnome-initial-setup-done
/home/akmtir/.config/imsettings/
/home/akmtir/.config/pulse/
/home/akmtir/.config/pulse/f11dcd3970854e93932f8e39091ce31b-stream-volumes.tdb
/home/akmtir/.config/pulse/f11dcd3970854e93932f8e39091ce31b-device-volumes.tdb
/home/akmtir/.config/pulse/cookie
/home/akmtir/.config/pulse/f11dcd3970854e93932f8e39091ce31b-default-sink
/home/akmtir/.config/pulse/f11dcd3970854e93932f8e39091ce31b-default-source
/home/akmtir/.config/pulse/f11dcd3970854e93932f8e39091ce31b-card-database.tdb
/home/akmtir/.config/yelp/
/home/akmtir/.config/yelp/yelp.cfg
/home/akmtir/.config/user-dirs.locale
/home/akmtir/.config/goa-1.0/
/home/akmtir/.ICEauthority
/home/akmtir/.viminfo
/home/akmtir/Music/
/home/akmtir/Templates/
/home/akmtir/.mozilla/
/home/akmtir/.mozilla/plugins/
/home/akmtir/.mozilla/extensions/
/home/akmtir/.local/
/home/akmtir/.local/share/
/home/akmtir/.local/share/.converted-launchers
/home/akmtir/.local/share/tracker/
/home/akmtir/.local/share/tracker/data/
/home/akmtir/.local/share/tracker/data/tracker-store.journal
/home/akmtir/.local/share/tracker/data/.meta.isrunning
/home/akmtir/.local/share/tracker/data/tracker-store.ontology.journal
/home/akmtir/.local/share/applications/
/home/akmtir/.local/share/evolution/
/home/akmtir/.local/share/evolution/tasks/
/home/akmtir/.local/share/evolution/tasks/trash/
/home/akmtir/.local/share/evolution/mail/
/home/akmtir/.local/share/evolution/mail/trash/
/home/akmtir/.local/share/evolution/memos/
/home/akmtir/.local/share/evolution/memos/trash/
/home/akmtir/.local/share/evolution/calendar/
/home/akmtir/.local/share/evolution/calendar/system/
/home/akmtir/.local/share/evolution/calendar/system/calendar.ics
/home/akmtir/.local/share/evolution/calendar/trash/
/home/akmtir/.local/share/evolution/addressbook/
/home/akmtir/.local/share/evolution/addressbook/trash/
/home/akmtir/.local/share/gnome-shell/
/home/akmtir/.local/share/gnome-shell/application_state
/home/akmtir/.local/share/nautilus/
/home/akmtir/.local/share/nautilus/scripts/
/home/akmtir/.local/share/keyrings/

```
/home/akmtir/.local/share/keyrings/login.keyring
/home/akmtir/.local/share/keyrings/user.keystore
/home/akmtir/.local/share/telepathy/
/home/akmtir/.local/share/telepathy/mission-control/
/home/akmtir/.local/share/telepathy/mission-control/accounts-goa.cfg
/home/akmtir/.local/share/telepathy/mission-control/accounts.cfg
/home/akmtir/.local/share/gnome-settings-daemon/
/home/akmtir/.local/share/gnome-settings-daemon/input-sources-converted
/home/akmtir/.local/share/icc/
/home/akmtir/.local/share/gvfs-metadata/
/home/akmtir/.local/share/gvfs-metadata/home
/home/akmtir/.local/share/gvfs-metadata/root
/home/akmtir/.local/share/gvfs-metadata/root-96443af4.log
/home/akmtir/.local/share/gvfs-metadata/home-b612ca4e.log
/home/akmtir/.local/share/gsettings-data-convert
/home/akmtir/.local/share/sounds/
/home/akmtir/Videos/
/home/akmtir/Documents/
/home/akmtir/.esd_auth
/home/akmtir/Downloads/
/home/akmtir/.bashrc
[root@localhost ~]# ls
anaconda-ks.cfg  home.bak.tar.bz2  initial-setup-ks.cfg
```

```
[root@localhost ~]# ls -lhi
```

```
total 588K
20003 -rw-----. 1 root root 2.0K Apr 22 21:59 anaconda-ks.cfg
20001 -rw-r--r--. 1 root root 573K Apr 23 13:17 home.bak.tar.bz2
20019 -rw-r--r--. 1 root root 2.0K Apr 22 22:03 initial-setup-ks.cfg
[root@localhost ~]#
```

```
[root@localhost ~]# ls -lh /software/
```

```
total 0
-rw-r--r--. 1 root root 0 Apr 23 13:08 sample
```

```
[root@localhost ~]# ls /mnt/
```

```
[root@localhost ~]#
```

```
[root@localhost ~]# mv /software/sample /mnt/
```

```
[root@localhost ~]# ls -lh /mnt/
```

```
total 0
-rw-r--r--. 1 root root 0 Apr 23 13:08 sample
```

```
[root@localhost ~]# ls /software/
```

```
[root@localhost ~]#
```

```
[root@localhost ~]# systemctl status network
```

- network.service - LSB: Bring up/down networking
 - Loaded: loaded (/etc/rc.d/init.d/network; bad; vendor preset: disabled)
 - Active: active (exited) since Sun 2017-04-23 13:03:06 CEST; 22min ago**
 - Docs: man:systemd-sysv-generator(8)
 - Process: 699 ExecStart=/etc/rc.d/init.d/network start (code=exited, status=0/SUCCESS)

```
Apr 23 13:03:05 localhost.localdomain systemd[1]: Starting LSB: Bring up/down...
```

Apr 23 13:03:06 localhost.localdomain network[699]: Bringing up loopback inte...
Apr 23 13:03:06 localhost.localdomain network[699]: Bringing up interface enp...
Apr 23 13:03:06 localhost.localdomain systemd[1]: Started LSB: Bring up/down ...
Hint: Some lines were ellipsized, use -l to show in full.

[root@localhost ~]#

[root@localhost ~]#

[root@localhost ~]#

[root@localhost ~]# systemctl restart network

[root@localhost ~]# systemctl status network

- network.service - LSB: Bring up/down networking
Loaded: loaded (/etc/rc.d/init.d/network; bad; vendor preset: disabled)
Active: active (exited) since Sun 2017-04-23 13:26:29 CEST; 8s ago
Docs: man:systemd-sysv-generator(8)
Process: 3810 ExecStop=/etc/rc.d/init.d/network stop (code=exited, status=0/SUCCESS)
Process: 3978 ExecStart=/etc/rc.d/init.d/network start (code=exited, status=0/SUCCESS)

Apr 23 13:26:28 localhost.localdomain systemd[1]: Starting LSB: Bring up/down...

Apr 23 13:26:29 localhost.localdomain network[3978]: Bringing up loopback int...

Apr 23 13:26:29 localhost.localdomain network[3978]: Bringing up interface en...

Apr 23 13:26:29 localhost.localdomain network[3978]: [OK]

Apr 23 13:26:29 localhost.localdomain systemd[1]: Started LSB: Bring up/down ...

Hint: Some lines were ellipsized, use -l to show in full.

[root@localhost ~]# [root@localhost ~]# uname -a

bash: [root@localhost: command not found...

[root@localhost ~]# Linux localhost.localdomain 3.10.0-514.el7.x86_64 #1 SMP Tue Nov 22 16:42:41

UTC 2016 x86_64 x86_64 x86_64 GNU/Linux

bash: Linux: command not found...

[root@localhost ~]#

[root@localhost ~]#

[root@localhost ~]# systemctl get-default

graphical.target

[root@localhost ~]# systemctl set-default multi-user.target

Removed symlink /etc/systemd/system/default.target.

Created symlink from /etc/systemd/system/default.target to /usr/lib/systemd/system/multi-user.target.

[root@localhost ~]#

[root@localhost ~]# systemctl get-default

multi-user.target

[root@localhost ~]#