Lab Assignment - 1

CED17I003

February 7, 2021

1 Exercise 1:

List at least 10 Daemons running in your machine and explain each in one or two lines (soft copy only, just text file).
Reason: To understand importance of Daemons as many DD are Daemons.

Command Used - systemctl list-units –type=service

```
  UNIT                                      LOAD   ACTIVE SUB     D>
  accounts-daemon.service                   loaded active running A>
  acpid.service                             loaded active running A>
  alsa-restore.service                      loaded active exited  S>
  apparmor.service                          loaded active exited  L>
  apport.service                            loaded active exited  L>
  avahi-daemon.service                      loaded active running A>
  bluetooth.service                         loaded active running B>
  bolt.service                              loaded active running T>
  colord.service                            loaded active running M>
  console-setup.service                     loaded active exited  S>
  cron.service                              loaded active running R>
  cups-browsed.service                      loaded active running M>
  cups.service                              loaded active running C>
  dbus.service                              loaded active running D>
  fwupd.service                             loaded active running F>
  gdm.service                               loaded active running G>
  grub-common.service                       loaded active exited  L>
  irqbalance.service                        loaded active running i>
  kerneloops.service                        loaded active running T>
  keyboard-setup.service                    loaded active exited  S>
  kmod-static-nodes.service                 loaded active exited  C>
  ModemManager.service                      loaded active running M>
lines 1-23...skipping...
  UNIT                                      LOAD   ACTIVE SUB     DESCRIPTION
  accounts-daemon.service                   loaded active running Accounts Service
  acpid.service                             loaded active running ACPI event daemon
  alsa-restore.service                      loaded active exited  Save/Restore Sound Card State
  apparmor.service                          loaded active exited  Load AppArmor profiles
  apport.service                            loaded active exited  LSB: automatic crash report generation
  avahi-daemon.service                      loaded active running Avahi mDNS/DNS-SD Stack
  bluetooth.service                         loaded active running Bluetooth service
  bolt.service                              loaded active running Thunderbolt system service
  colord.service                            loaded active running Manage, Install and Generate Color Profiles
  console-setup.service                     loaded active exited  Set console font and keymap
  cron.service                              loaded active running Regular background program processing daemon
  cups-browsed.service                      loaded active running Make remote CUPS printers available locally
  cups.service                              loaded active running CUPS Scheduler
  dbus.service                              loaded active running D-Bus System Message Bus
  fwupd.service                             loaded active running Firmware update daemon
  gdm.service                               loaded active running GNOME Display Manager
  grub-common.service                       loaded active exited  LSB: Record successful boot for GRUB
  irqbalance.service                        loaded active running irqbalance daemon
  kerneloops.service                        loaded active running Tool to automatically collect and submit kernel crash signatures
  keyboard-setup.service                    loaded active exited  Set the console keyboard layout
  kmod-static-nodes.service                 loaded active exited  Create list of static device nodes for the current kernel
  ModemManager.service                      loaded active running Modem Manager
  networkd-dispatcher.service               loaded active running Dispatcher daemon for systemd-networkd
  NetworkManager-wait-online.service        loaded active exited  Network Manager Wait Online
  NetworkManager.service                    loaded active running Network Manager
  nvidia-persistenced.service               loaded active running NVIDIA Persistence Daemon
  openvpn.service                           loaded active exited  OpenVPN service
  polkit.service                            loaded active running Authorization Manager
  preload.service                           loaded active running LSB: Adaptive readahead daemon
  rsyslog.service                           loaded active running System Logging Service
```

Figure 1: Command Output

1.1 accounts-daemon.service

The AccountService project provides a set of D-Bus interfaces for querying and manipulating user account information and an implementation of these interfaces, based on the useradd, usermod and userdel commands. It allows programs to get and manipulate user account information.

1.2 acpid.service

The acpid daemon supports the Advanced Configuration and Power Interface (ACPI) to allow intelligent power management on your system and to query battery and configuration status.

1.3 avahi-daemon.service

The avahi-daemon Linux service runs on client machines to perform network-based Zeroconf service discovery. Avahi is an implementation of the DNS Service Discovery and Multicast DNS specifications for Zeroconf Networking. User applications receive notice of discovered network services and resources using the Linux D-Bus message passing. The daemon coordinates application efforts in caching replies, helping minimize network traffic.

1.4 nvidia-persistenced.service

This daemon prevents the driver from releasing device state when the device is not in use. This can improve the startup time of new clients in this scenario.

1.5 fwupd.service

It is a simple daemon allowing you to update some devices' firmware, including UEFI for several machines

1.6 irqbalance.service

The daemon balances savings in power consumption with performance. irqbalance is relevant on multiprocessor x86, x64, and AMD systems. The irqbalance configuration file /etc/sysconfig/irqbalance allows the selection of which CPU's which may be assigned which interrupts.

1.7 preload.service

This daemon runs and records statistics about usage of programs using Markov chains; files of more frequently-used programs are, during a computer's spare time, loaded into memory. This results in faster startup times as less data needs to be fetched from disk.

1.8 networkd-dispatcher.service

Networkd-dispatcher is a dispatcher daemon for systemd-networkd connection status changes. It is similar to NetworkManager-dispatcher, but is much more limited in the types of events it supports due to the limited nature of systemd-networkd.

1.9 whoopsie.service

whoopsie is a daemon that is responsible for collecting error reports from apport and then sending that report to Canonical if the user agrees to this in the apport confirmation dialog.

1.10 uuidd.socket

The uuidd daemon is used by the UUID library to generate universally unique identifiers (UUIDs), especially time-based UUIDs, in a secure and guaranteed-unique fashion, even in the face of large numbers of threads running on different CPUs trying to grab UUIDs.