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DISCLAIMER O

WORKING WITH SYSTEMD SERVICES

SYSTEMD

- An Init system and a service manager from boot to shutdown for Linux OS.
- Handle services, processes, network, authentication, logging etc...

SYSTEMD UNITS

- Entities or objects managed by systemd.
- Unit types that **systemd** can manage:
 - service
 - socket
 - device
 - mount or automount point
 - swap file
 - timer
 - startup target (runlevel)
 - o path etc...

UNIT FILE LOCATIONS

/lib/systemd/system standard systemd unit files

/usr/lib/systemd/system from locally installed package

/etc/systemd/system custom unit files

SYSTEMCTL

• To manage services on a **systemd** enabled server.

To list all units listed as "active"

\$ systemctl list-units

To list all unit installed in Beautill way

\$ systemctl list-unit-files

To make systemd re-read all unit files

\$ systemctl daemon-reload

SYSTEMCTL STATUS COMMAND

To check if a service is running

\$ sudo systemctl status <service_name>

Output:

SYSTEMCTL COMMANDS

To start a service

\$ systemctl status <service_name>

To stop a service

\$ systemctl stop <service_name>

To restart a service

\$ systemctl restart <service_name>

To reload a service

\$ systemctl reload <service_name>

SYSTEMCTL ENABLE/DISABLE COMMAND

To enable the service to start at boot

\$ systemctl enable <service_name>

To disable the service to start at boot

\$ systemctl disable <service_name>

MINIMAL SERVICE UNIT FILE EXAMPLE

[Unit]

Description=A very simple service After=network.target

[Service]

Type=simple ExecStart=/usr/local/bin/exampleProgram

[Install]

WantedBy=multi-user.target

DEMOCREATING A CUSTOM UNIT FILE

JOURNALCTL

Log information from applications and the kernel

To see all log entries from the general system state **\$ journalctl**

Flags:

- -b (current boot)
- -k (only kernel message)
- -k (only kernel message of current boot)

JOURNALCTL

QUERYING UNIT STATES AND LOGS

To see log entries for a specific unit

\$ journalctl -u <service_name>

To see log entries for a specific unit of the current boot

\$ journalctl -b -u <service_name>

To see updated log entries for a specific unit as they are generated

\$ journalctl -u <service_name> -f