Systemd Unit

[Unit] Section

- Description= -   .
- Requires= -   .   . (
)
- RequiresOverridable= - Requires=   .

    (.)   .
- Requisite=, RequisiteOverridable= - Requires=   "RequiresOverridable="

    .   .
- Wants= - Requires=

    . (   )
- BindsTo= - Requires=   . systemd   (
    NIC   )   .
- PartOf= - Requires=   .

    .
- Conflicts= -   .   1   Conflicts=   2
        1   2   ,   1   2   .
   After=   Before=   .

- Before=, After= -   .   Requires=
        . Before=   After=
                    .   (shutdown)   .
- OnFailure= -   (" /"
)
- PropagatesReloadTo=, ReloadPropagatedFrom= -   (reload)
                                        (reload)   .
- RequiresMountsFor= -
            Requires=, After=   .

    .
- OnFailureIsolate=[yes|no] - **yes**   OnFailure=
    (isolation mode)   .   .
   OnFailureIsolate=yes   OnFailure=   .

[Service] Section

- Type=[simple|forking|oneshot|notify|dbus] -   .
    - simple - (   )   systemd
        .   .
    - forking -   systemd
                                    PIDFile=   PID
        .
    - oneshot - simple   .

                        RemainAfterExit=yes

        .

- notify - simple   . systemd   .
  libsystemd-daemon.so   .
- dbus - DBUS   BusName   . DBUS
                      .
- RemainAfterExit=[yes|no] -   .
- GuessMainPID=[yes|no] -   Type=forking   PIDFile=
                      . systemd
                      .   PID   .
                      .
- PIDFile= - PID   .   forking
  . (   )
- BusName= - D-Bus   . Type=dbus   . Type
            D-Bus   .
- Environment= -   .   Exec*=
              .   .

```
Environment="ONE=one" 'TWO=two two'
```

- EnvironmentFile= -   . #
    ;   . Environment=
  Environment=   .   Exec*=   .
- ExecStart= -   (   )   .
    (${STRINGS}   )   .   .   .

```
ExecStart="commnad 1; command 2; command 3"
ExecStart="commnad 1"
ExecStart="command 2"
```

- ExecStop= -   (   )   . ExecStart=   .
        KillMode=   .
- KillMode=[control-group|process|none] -   .
    - control-group   .   .
    - process   .
    - none   .
    -   .
- ExecReload= -   (reload)   .
- ExecStartPre=, ExecStartPost=, ExecStopPre=, ExecStopPost= -   ,
                                                  .   ExecStart=   .
- RestartSec= -   (sleep)
        .   100ms   .   min, s, ms   .   Restart=
            .
- TimeoutStartSec= -   . 90 (90s)   .
        Type=oneshot   .
                                              TimeoutStartSec=0   .
- TimeoutStopSec= -   . 90 (90s)
    TimeoutStartSec=   TimeoutStopSec=0
              . TimeoutStopSec   SIGKILL
            .
- TimeoutSec= - TimeoutStartSec=   TimeoutStopSec=   .

- WatchdogSec= - (keep-alive ping)
  . Restart= on-failure, always
  WatchdogSec= . " O"
  .

- Restart=[no|on-success|on-failure|on-watchdog|on-abort|always] -
  WatchdogSec= .
  ExecStartPre=, ExecStartPost=', ExecStopPre=, ExecStopPost=, ExecReload=
  . . * no ( ),
  . * on-success 0
  SIGHUP, SIGINT, SIGTERM, SIGPIPE
  SuccessExitStatus='
  .

  - on-failure . 0 ,
    core dump ,
    .
  - on-watchdog WatchdogSec= .
  - on-abort .
  - always . (
    .)

- SuccessExitStatus= - . .

```
SuccessExitStatus=1 2 8 SIGKILL
```

- RestartPreventExitStatus= - .
  . .

```
RestartPreventExitStatus=1 6 SIGABRT
```

- PermissionsStartOnly=[yes|no] - User=, Group=
  . ExecStart= ExecStartPre=,
  ExecStartPost=, ExecReload=, ExecStop=, ExecStopPost= .
- User=, Group= - , .
- RootDirectoryStartOnly=[yes|no] - / . chroot()
  . jail . ExecStart=
  ExecStartPre=, ExecStartPost=, ExecReload=, ExecStop=, ExecStopPost=
  .
- RootDirectory= - chroot() / .
- WorkingDirectory= - . /
  . .
- NonBlocking=[yes|no] - (FD) O_NONBLOCK .
  yes STDIN/STDOUT/STDERR O_NONBLOCK .
  non-blocking mode .
- NotifyAccess=[none|main|all] - sd_notify()
  (notification) .
  - none .
  - main .
  - all .
  - Type=notify WatchdogSec= NotifyAccess=
    (main) . NotifyAccess=
    main .
- Sockets= - . < >.socket

Sockets=

Sockets=
- StartLimitInterval=, StartLimitBurst= -
    (Restart=)   10   5

            . (1   5   Fail   )

    ○ StartLimitInterval=   10 (10s), 0
        .
    ○ StartLimitBurst=   5
- StartLimitAction=[none|reboot|reboot-force|reboot-immediate] -
                (Service Recovery Limit > StartLimitInterval *
  StartLimitBurst)
    ○ none (   ),   .
    ○ reboot   . (systemctl reboot   )
    ○ reboot-force   .   . (systemctl reboot -f
        , sync   )
    ○ reboot-immediate   .   . reboot()
                                      . sync
- Nice= -   nice   . -20   19   .
- OOMScoreAdjust= - OOM(Out Of Memory) killer
    . -1000   1000   .
- UMask= - umask   .   0022   .
- SyslogFacility= -   . kern, user, mail, daemon,
  auth, syslog, lpr, news, uucp, cron, authpriv, ftp, local0, local1,
  local2, local3, local4, local5, local6, local7   .
- SyslogLevel= -   . emerg, alert, crit, err, warning,
  notice, info, debug   .
- TCPWrapName= - TCP   .
- PAMName= - PAM   .

[Install] section

- Alias= -   . systemctl enable
            .   (   )   .
  (service, socket, mount, swap   . : httpd.service   Alias=apache.service)
- WantedBy=, RequiredBy= - systemctl enable

            .   .
  [Unit]   Wants=   Requires=   .
- Also= - systemctl enable   systemctl disable
            ,   .

- https://fmd1225.tistory.com/93

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