

Systemd Unit

[Unit] Section

[Service] Section

[Install] section

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Systemd Unit

[Unit] Section

- Description= -
- Requires= - ()
- RequiresOverridable= - Requires= 가 ()
- Requisite=, RequisiteOverridable= - Requires= RequiresOverridable=
- Wants= - Requires=
- BindsTo= - Requires= . systemd 가 (가 NIC 가 가)
- PartOf= - Requires=
- Conflicts= - 1 Conflicts= 2 1 2가 After= Before= 가
- Before=, After= - Requires= Before= After= (shutdown)
- OnFailure= - 가 (/)
- PropagatesReloadTo=, ReloadPropagatedFrom= - (reload) (reload)
- RequiresMountsFor= - Requires=, After= 가
- OnFailureIsolate=[yes|no] - **yes** OnFailure= (isolation mode) OnFailureIsolate=yes OnFailure=

[Service] Section

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

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

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

- EnvironmentFile= - #
- Environment= Exec*=
- ExecStart= - ()
- 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
 - 가
- ExecReload= - (reload)
- ExecStartPre=, ExecStartPost=, ExecStopPre=, ExecStopPost= - , ExecStart= 가
- RestartSec= - (sleep) Restart= 100ms min, s, ms
- 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= 0

```

- Restart=[no|on-success|on-failure|on-watchdog|on-abort|always] -
WatchdogSec=
ExecStartPre=, ExecStartPost=, ExecStopPre=, ExecStopPost=, ExecReload=
 - no (),
 - on-success
SIGHUP, SIGINT, SIGTERM, SIGPIPE
SuccessExitStatus=
 - on-failure
core dump
 - on-watchdog WatchdogSec=
 - on-abort
 - always (가)
- 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) 0_NONBLOCK
yes STDIN/STDOUT/STDERR 0_NONBLOCK 가
non-blocking mode
- NotifyAccess=[none|main|all] - sd_notify()
(notification)
 - none
 - main
 - all
 - Type=notify WatchdogSec= 가 NotifyAccess= 가
(main) NotifyAccess=
main
- Sockets= - < >.socket

```

Sockets=
Sockets=
• StartLimitInterval=, StartLimitBurst= -
    (Restart=)
    . ( 1 5 가 가 Fail ) 가
    ◦ StartLimitInterval= 10 (10s), 0
    ◦ StartLimitBurst= 5
• StartLimitAction=[none|reboot|reboot-force|reboot-immediate] -
    가 (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 가
• SyslogLevel= - . emerg, alert, crit, err, warning,
    notice, info, debug 가
• 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://www.freedesktop.org/software/systemd/man/systemd.unit.html>
- <https://www.freedesktop.org/software/systemd/man/systemd.service.html>
- <https://fmd1225.tistory.com/93>

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