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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= 가
- 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
- dbus - DBUS
- RemainAfterExit=[yes|no] -
- GuessMainPID=[yes|no] - Type=forking 가 PIDFile= systemd 가 PID 가
- PIDFile= - PID forking 가
- BusName= - D-Bus Type=dbus Type D-Bus
- Environment= - Exec\*=

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

- EnvironmentFile= - # ; 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
  - 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 SIGKILL TimeoutStopSec
- 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 0  
SIGHUP, SIGINT, SIGTERM, SIGPIPE  
SuccessExitStatus='  
  - on-failure 0 ,  
core dump
  - on-watchdog WatchdogSec=
  - on-abort
  - always ( 가  
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) O\_NONBLOCK  
yes STDIN/STDOUT/STDERR O\_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=
  - StartLimitInterval=, StartLimitBurst= (Restart=) 10 5
    - 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()
- 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 ( ) 가 (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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