Systemd

https://www.freedesktop.org/software/systemd/

Systemd   Linux   . SysV init
,
. **Red Hat Enterprise Linux 7**   **systemd**   **init**
        Upstart   .

- Systemd Unit

Systemd

Unit type

Unit Type		
	.service	.
	.target	.
	.automount	.
	.device	.
	.mount	.
	.path	.
	.scope	.
	.slice	.
	.snapshot	systemd .
	.socket	.
	.swap	.
	.timer	.

Unit file

/usr/lib/systemd/system/	RPM .
/run/systemd/system/	. .

/etc/systemd/system/	systemctl enable Systemd unit file.
	      unit file.
	      .

system.conf   systemd

systemd   systemd   (`/etc/systemd/system.conf`)

.

.

    90   DefaultTimeoutStartSec

.

```
DefaultTimeoutStartSec =
```

service   systemctl

service	systemctl	
service name start	systemctl start name.service	.
service name stop	systemctl stop name.service	.
service name restart	systemctl restart name.service	.
service name condrestart	systemctl try-restart name.service	.
service name reload	systemctl reload name.service	.
service name status	systemctl status name.service systemctl is-active name.service	.
service –status-all	systemctl list-units –type service –all	.

chkconfig   systemctl

chkconfig	systemctl	
chkconfig name on	systemctl enable name.service	.
chkconfig name off	systemctl disable name.service	.
chkconfig –list name	systemctl status name.service systemctl is-enabled name.service	.
chkconfig –list	systemctl list-unit-files –type service	.
chkconfig –list	systemctl list-dependencies –after	.
chkconfig –list	systemctl list-dependencies –before	.

Unit File

.   systemctl

.

.

.

- [Unit] —   .

.

- [unit type] —
  .   ,   [Service]   .
- [Install] — systemctl enable   disable

.

[Unit] Section

[Unit] Section keyword

Description	. systemctl status .
Documentation	URI .
After	. After . Requires After . Before After .
Requires	. Requires . .
Wants	Requires . . .
Conflicts	Requires . .

[Service] Section

[Service] Section keyword
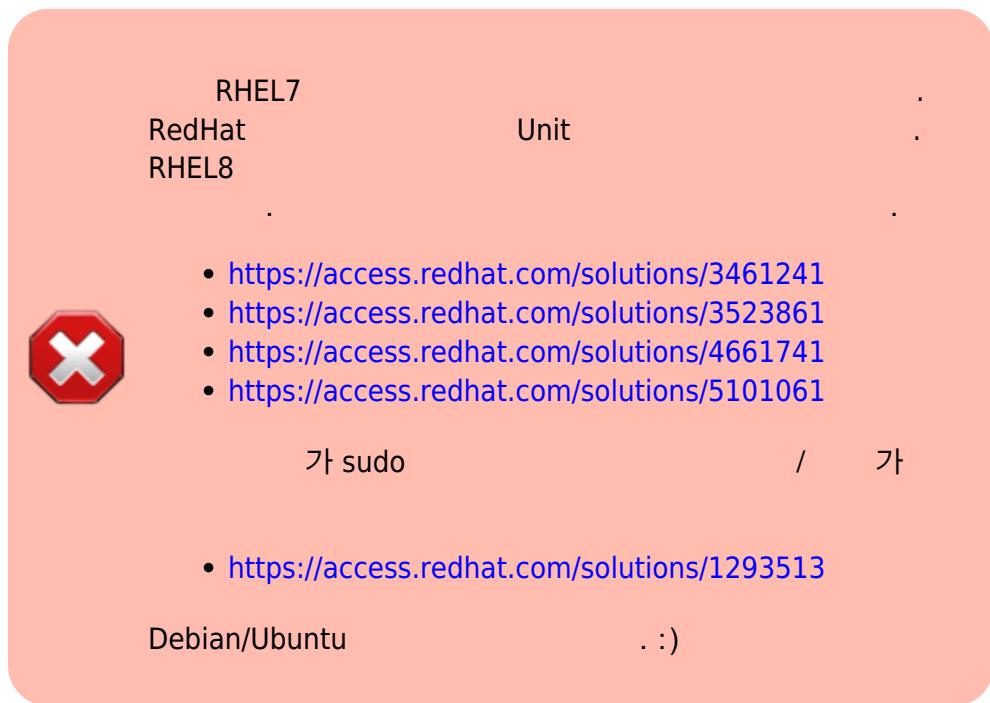
Type	ExecStart . * simple – .ExecStart . * forking – ExecStart . . * oneshot – simple . * dbus – simple D-Bus . * notify – simple sd_notify() . * idle – simple .
ExecStart	. ExecStartPre ExecStartPost ExecStart , . Type=oneshot .
ExecStop	.
ExecReload	.
Restart	systemctl .
RemainAfterExit	True . False . Type=oneshot .

[Install] Section

[Install] Section keyword

Alias	Unit `. systemctl` `enable` `systemctl` `Unit` `.`	
RequiredBy	Unit Unit `.` Unit `Require` Unit `RequiredBy` `.`	
WantedBy	Unit Unit `.` Unit `Want` Unit `WantedBy` `.`	
Also	Unit Unit `.`	
DefaultInstance	Unit Unit `.`	

Unit

RHEL7 `.`
RedHat Unit `.`
RHEL8
`.` `.`

- https://access.redhat.com/solutions/3461241
- https://access.redhat.com/solutions/3523861
- https://access.redhat.com/solutions/4661741
- https://access.redhat.com/solutions/5101061

sudo /

- https://access.redhat.com/solutions/1293513

Debian/Ubuntu `. :)`

Unit file system unit file `.` root `.`
unit file `.`

unit file `.config/systemd/user/` `.`

jboss unit file `.`

`.config/systemd/user/jboss.service`

```
[Unit]
Description=JBoss EAP Systemctl script
After=NetworkManager.service
```

```
[Service]
Type=forking
ExecStart=/opt/server/jboss-eap-6/bin/init.d/jboss-as-standalone.sh start
ExecStop=/opt/server/jboss-eap-6/bin/init.d/jboss-as-standalone.sh stop
ExecReload=/opt/server/jboss-eap-6/bin/init.d/jboss-as-standalone.sh restart
PIDFile=/var/run/jboss-as/jboss-as-standalone.pid

TimeoutStartSec=600
TimeoutStopSec=600

[Install]
WantedBy=multi-user.target
```

systemd   unit file   .

```
[user@host ~]$ systemctl --user daemon-reload
[user@host ~]$ systemctl --user enable myunit.service
[user@host ~]$ systemctl --user start myunit.service
[user@host ~]$ systemctl --user stop myunit.service
[user@host ~]$ systemctl --user status myunit.service
```

- https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/7/html/system_administrators_guide/chap-managing_services_with_systemd
- https://www.freedesktop.org/software/systemd/man/systemd.directives.html
- https://www.digitalocean.com/community/tutorials/understanding-systemd-units-and-unit-files

kavita

```
[Unit]
Description=Kavita Daemon

[Service]
User=root
WorkingDirectory=/Kavita
Type=simple
ExecStart=/Kavita/Kavita
PIDFile=/Kavita/Kavita.pid
Restart=on-failure
```

```
[Install]
WantedBy=multi-user.target
```

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