

Core File Retention

SystemD-Based Operating Systems

Set System Core File Size Limit

Warning: RedHat/CentOS 7+, Ubuntu 16+, Debian 8+, SLES 12+ all use systemd which ignores `/etc/security/limits.conf` and `/etc/security/limits.d/*` settings. To permit core files without size limits on systemd-based systems use the following process instead.

Note that these steps must be done as root:

```
sudo -s

cd /etc/systemd/system

mkdir solserver.service.d

cd solserver.service.d

printf "[Service]\nLimitCORE=infinity\n" > override.conf

systemctl daemon-reload
```

Now you can verify the change has taken effect for future slapd startup:

```
systemctl cat solserver
```

This should show the updated limits:

```
# /etc/systemd/system/solserver.service.d/override.conf
[Service]
LimitCORE=infinity
```

Once Symas OpenLDAP is installed you can view the process's limits file to see the Max open files limit:

```
systemctl show solserver | grep LimitCORE
LimitCORE=infinity
LimitCORESoft=infinity
```

If adjusting these settings after Symas OpenLDAP is installed and slapd is running, a restart of solserver is required to pick up the change.

```
systemctl restart solserver
```

Generating Usable Core Dumps in Debian/Ubuntu



Unfortunately, generating usable core files on Debian or Ubuntu Operating Systems requires disabling the apport process. To do this, edit `/etc/default/apport`, and set `enabled` to 0.

```
sudo vi /etc/default/apport
enabled=0
```

Then stop the apport service and apply the following core file defaults:

```
sudo service apport stop

sudo vi /etc/sysctl.d/60-slapd-core.conf
```



Symas OpenLDAP

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```
kernel.core_uses_pid=1
fs.suid_dumpable=2
kernel.core_pattern=/opt/symas/data/tmp/core-%e-%s-%u-%g-%p-%t
```

Then start the procs service.

```
sudo service procs start
```

Set Default Save-To Location for Core Files

Add the following to `/etc/systemd/coredump.conf`:

```
sudo vi /etc/systemd/coredump.conf
[CoreDump]
Storage=both
Compress=yes
```

Create a simlink to the coredump.conf file in `/etc/sysctl.d/`

```
cd /etc/sysctl.d/
sudo ln -s /etc/systemd/coredump.conf 50-coredump.conf
```

For some systems, `/etc/sysctl.d/99-sysctl.conf` will be a simlink to `/etc/sysctl.conf`. On others is will its own file. Whichever is the case, edit the file with the following:

```
sudo vi /etc/sysctl.conf
```

OR

```
sudo vi /etc/sysctl.d/99-sysctl.conf
```

```
fs.suid_dumpable = 2
kernel.core_uses_pid = 1
kernel.core_pattern = /tmp/core-%e-%s-%u-%g-%p-%t
Or
kernel.core_pattern = /opt/tmp/core-%e-%s-%u-%g-%p-%t
```