Chapter 1. Troubleshooting System Errors

If you have Evergreen installed and are encountering systematic errors, here is the steps to find the cause and solution to most problems. These instructions assume standard locations and file names for Evergreen installations, and may also include commands for specific Linux distributions.

Procedure 1.1. Systematic Evergreen Restart to isolate Errors

1. Stop Apache:

/etc/init.d/apache2 stop

or

apache2ctl stop

2. Stop OpenSRF:

osrf_ctl.sh -l -a stop_all

You should get either output resembling this:

Stopping OpenSRF C process 12515...

Stopping OpenSRF C process 12520...

Stopping OpenSRF C process 12526...

Stopping OpenSRF Perl process 12471...

Stopping OpenSRF Router process 12466...

Or, if services have already been stopped, output maay look like this:

OpenSRF C not running

OpenSRF Perl not running

OpenSRF Router not running

Occasionally osrf_ctl.sh fails to kill OpenSRF processes, so we should check to make sure that none are still running with the command:

ps -aef | grep OpenSRF

You should manually kill any OpenSRF processes.

If you were unable to stop OpenSRF with the above methods, you could also try this command:

rm -R /openils/var/run/*.pid

This will remove the temporary OpenSRF process files from the run directory which may have been left over from a previous system boot cydle.

3. Restart Ejabberd and Memcached with the following commands:

```
sudo /etc/init.d/ejabberd restart
```

```
sudo /etc/init.d/memcached restart
```

4. Start the OpenSRF router and check for errors

/openils/bin/osrf_ctl.sh -l -a start_router

If the router started correctly, output will be:

Starting OpenSRF Router

If router does not start correctly, you should check the router error log files for error information.

Evergreen 1.6 uses two routers, a public one and a private one, with two different logfiles:

/openils/var/log/private.router.log

/openils/var/log/public.router.log

A quick way to find error information in the logs is with the grep command.

```
grep ERR /openils/var/log/*router.log
```

As a final sanity check, look for router processes using the process status command:

ps -aef | grep Router

5. Start the OpenSRF perl services and check for errors

/openils/bin/osrf_ctl.sh -l -a start_perl

You should see the following output:

Starting OpenSRF Perl

- * starting all services for norcrossfx.norcross.esi
- * starting servivce pid=7484 opensrf.settings
- * starting servivce pid=7493 open-ils.cat
- * starting servivce pid=7495 open-ils.supercat
- * starting servivce pid=7497 open-ils.search
- * starting servivce pid=7499 open-ils.circ
- * starting servivce pid=7501 open-ils.actor
- * starting servivce pid=7502 open-ils.storage
- * starting servivce pid=7509 open-ils.penalty
- * starting servivce pid=7512 open-ils.collections
- * starting servivce pid=7514 open-ils.ingest

- * starting servivce pid=7517 open-ils.permacrud
- * starting servivce pid=7522 open-ils.fielder
- * starting servivce pid=7527 open-ils.vandelay
- * starting servivce pid=7516 open-ils.reporter

If the perl services do not start correctly or you receive errors, search for errors in the following log files:

/openils/var/log/router.log

/openils/var/log/osrfsys.log

At this point you can use the grep command to find errors in any of the Evrgreen log files:

```
grep ERR /openils/var/log/*.log
```

As a final sanity check, look for OpenSRF processes:

ps -aef | grep -i opensrf

6. Start the OpenSRF C services and check for errors:

/openils/bin/osrf_ctl.sh -l -a start_c

And output should be:

Starting OpenSRF C (host=localhost)

If the *c* service does not start, check for errors by grepping the log files for errors:

grep ERR /openils/var/log/*.log

Check for OpenSRF processes:

ps -aef | grep -i opensrf

7. Smoke test with autogen.sh

The Autogen tool will take some dynamic information from the database and generate static Javascript files for use by the OPAC and staff client. It is also able to refresh the proximity map between libraries for the purpose of efficiently routing hold requests.

As user opensrf, you invoke Autogen with the command:

```
/openils/bin/autogen.sh -c /openils/conf/opensrf_core.xml -u
```

If Autogen completes successfully, the output will be:

Updating fieldmapper

Updating web_fieldmapper

Updating OrgTree

removing OrgTree from the cache...

Updating OrgTree HTML Updating locales selection HTML Updating Search Groups Refreshing proximity of org units Successfully updated the organization proximity Done If Autogen does not complete its task and you recieve errors, use **grep** to find errors in the log files:

grep ERR /openils/var/log/*.log

8. Connect to Evergreen using the srfsh command-line OpenSRF client

```
/openils/bin/srfsh
```

Note

In order for you to connect using **srfsh**, you will need to have set up the .srfsh.xml configuration file in your home directory as as described in the installation chapter.

You will then see the *srfsh* prompt:

srfsh#

At the srfsh prompt, enter this command:

login admin open-ils

You should the request verification:

Received Data: "6f63ff5542dalfead4431c6c280efc75"

Request Completed Successfully

Request Time in seconds: 0.018414

Received Data: {

"ilsevent":0,

"textcode":"SUCCESS",

"desc":" ",

"pid":7793,

"stacktrace":"oils_auth.c:312",

```
"payload":{
   "authtoken":"28804ebf99508496e2a4d2593aaa930e",
   "authtime":420.000000
}
}
------Request Completed Successfully
Request Time in seconds: 0.552430
-------
Login Session: 28804. Session timeout: 420.000
srfsh#
```

If you encounter errors or if you are unable to connect, you should consult the srfsh.log file. The location of this file is configured in your .srfsh.xml configuration file and is /openils/var/log/srfsh.log by default.

Pressing Ctrl+D or entering "exit" will terminate srfsh.

9. Start Apache and check for errors:

/etc/init.d/apache2 start

or

apache2ctl start

You should see output:

* Starting web server apache2

...done.

the Apache OpenSRF modules write to the /openils/var/log/gateway.log

However, you should check all of the log files for errors:

grep ERR /openils/var/log/*.log

Another place to check for errors is the Apache error logs generally located in in the /var/log/ Apapche2 directory

If you encounter errors with Apache, a common source of potential problems are the Evergreen site configuration files /etc/apache2/eg_vhost.conf and /etc/apache2/sites-available/eg.conf

11. Try to authenticate with the OPAC