

Collectd

Introduction:

- collectd is a daemon which collects system performance statistics periodically
- collectd is actively developed and supported and well documented.

Everything in collectd is done in plugins. It comes with over 90 plugins and is extensible. Collectd activates those plugins that are loaded and/or configured in collectd's conf files. Changes in conf files will be effected in collectd only on restart of the collectd daemon.

Extending collectd's plugin collection:

- collectd provides python plugin which embeds a Python interpreter into collectd and exposes API to Python-scripts.
- Custom scripts can be run also using collectd's exec plugin.

Collectd supports thresholding. Thresholds for each plugin can be configured in collectd's conf files and on breach of configured thresholds, a script configured under collectd's NotificationExec will be executed. The script in-turn can then pass on the threshold breach message to the tendrl core or collectd even has plugins for notifying the breach through emails. However, for better control over the alerting like co-relating the alerts it is better to have it push the breach notification to tendrl which can then handle the notification appropriately.

Many other tools like Nagios, Sensu, Zabbix were considered for development before Skyring 2.0 but they were not adopted for Skyring 2.0 because they necessitated us to model our storage entities in terms of their pre-defined models.