LOG FILES

Computing resources in idle-mode	Generate system stats
Computing resources running simulations	

Configuration Stage0

- Set list of email addresses
- Choose list of system stats to track
- Set `thresholds` for each system stat
- Configure paths to the ingest log files
- Set a `cycle_time` value
- Set a `process_dispatch_time`

Stage-1 Data Ingest

- Start a process that watches the log file(s) for incoming data: `watchdog`
- Parse incoming data (log-files) into a *friendly*-format
- Store the system stats as arrays for easy manipulation

Normal behavior

Stage-2 Stats analyzer

- Take each system stat that is stored in its corresponding array
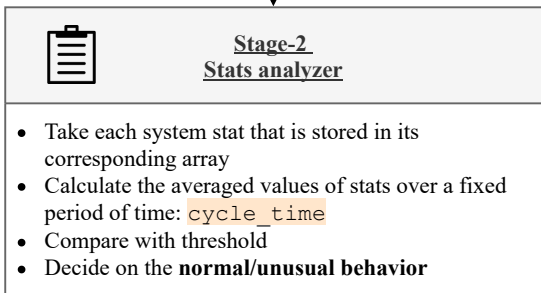- Calculate the averaged values of stats over a fixed period of time: `cycle_time`
- Compare with threshold
- Decide on the **normal/unusual behavior**

Unusual behavior

Stage-3 Alerts

- **Unusual behavior** is raised at Stage-2
- File(s) with the system stats is generated
- E-mails with detailed information + attachments are sent to the client list
- Continue monitoring log files