



LOG FILES

Computing resources in
idle-mode

Computing resources
running simulations

Generate
system
stats



Step-0 Configuration

- 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



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 (i.e., the **cycle_time**)
- Compare averaged values with **thresholds**
- Decide on the **normal/unusual behavior**

*Normal
behavior*

Unusual behavior



Stage-3 Alerts

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

