HVAC

Runs as a service continually

Writes log messages to a log file (console/stream?)

Has an invocable function status() that returns a JSON object with the current status of the system, including:

- status of all relays

- current temperature readings of all one-wire devices

- current status of power monitor

A separate program loads the HVAC module, and sends an MQTT message at a preset interval (one second?) to AWS IOT; a Python lambda writes the data to … SQS to … S3? Dynamo?

A web server running on the pi has a page that calls the status() function and displays it back to the user (current values)

If you want to see charting and history, view on AWS accessing the stored data