

Weather Station

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Overview

- Collect data and store it in SQLite Database and to display it on webpage.

What I installed

- git - github
- gpm - mouse interface
- lighttpd - lightweight webserver
- php5
- sqlite3 - lightweight DB

Steps: Part I

- Installed the necessary packages
- Checked that sqlite and lighttpd are working with php
- Set up pi so can ssh into it from anywhere
- Learned php and html

Steps: Part 2

- Create the database to store all the values
- Create a second table to hold the constant variables between refreshes.
- Create the graph to track the temperatures
- Design the website itself.

Final Product

- Current temperature, humidity, and pressure
- Graph of the most recent temperatures
- <http://24.161.98.162/>

Problems

- Had sqlite instead of sqlite3
 - installed correct packages
- Home network would kick me off the internet
 - wrote script to continue to ping to google.com

What I learned

- Linux Command line
- php
- html
- webdesign
- SQLite database

Future

- Get realtime data from arduino.
- Have multiple sensors collecting the data