IoT: Client Devices

A Libcurl Example - Code

Code!!!

WORKSTATION FIRST

- Test our code
- Easier environment
- Faster test/code cycles
- More stable networking

WHY?

- A simple example
- Sends an HTTP GET

```
./requestor.c
 8 #define URL
10 int main(void) {
     CURL
               *curl;
     CURLcode res;
13
     curl = curl_easy_init();
14
    if (curl) {
      curl_easy_setopt(curl, CURLOPT_URL, URL);
17
      curl_easy_setopt(curl, CURLOPT_FOLLOWLOCATION, 1L);
      res = curl_easy_perform(curl);
       if(res != CURLE_OK) {
         return REQ_ERR;
21
       curl_easy_cleanup(curl);
     } else {
       return INIT_ERR;
     return OK;
27 }
                     ./requestor.c M
```

```
[cclamb@ubuntu:~ $ python -m SimpleHTTPServer
Serving HTTP on 0.0.0.0 port 8000 ...
```

SimpleHTTPServer

\$ python -m SimpleHTTPServer (run this in another window)

```
cclamb@ubuntu:~/Work/iot-client $ make
     -c requestor.c -o requestor.o
gcc
     -o test requestor.o -L/usr/lib/x86_64-linux-gnu -lcurl -lpthread
gcc
cclamb@ubuntu:~/Work/iot-client $ ls
makefile printer.c requestor.c requestor.o test
cclamb@ubuntu:~/Work/iot-client $ ./test > test.out
cclamb@ubuntu:~/Work/iot-client $
```

```
cclamb@ubuntu:~/Work/iot-client $ python -m SimpleHTTPServer
Serving HTTP on 0.0.0.0 port 8000 ...
127.0.0.1 - - [12/Jan/2017 16:55:17] "GET / HTTP/1.1" 200 -
```

16:55