

IoT: Client Devices

A Libcurl Example - Setting Up

A Sample Project

FIRST THINGS FIRST

- ▶ Remember your personal process?

CREATE A DIRECTORY

- ▶ Create a .gitignore file
- ▶ Create a makefile
- ▶ Create an (empty) file named requestor.c

A Sample Project

CREATE A REPOSITORY

- ▶ `$ git init`

CREATE A PUBLIC REPOSITORY ON GITHUB

- ▶ Then add the remote reference to your project
- ▶ Instructions are on the webpage shown after you create your project

ADD THE FILES, COMMIT, AND PUSH

- ▶ `$ git add .`
- ▶ `$ git commit -m 'initial import'`
- ▶ `$ git push -u origin master`

Make

MAKE

- ▶ Older than old, but still useful!

WHITESPACE SENSITIVE SYNTAX

- ▶ Tabs and spaces are treated differently

MANY EXAMPLES ON THE INTERNET

- ▶ Including ones I'll show you

```
[cclamb@ubuntu:~/Work/iot-client $ more makefile
# CC=arm-linux-gnueabi-gcc
CC=gcc
CCFLAGS=
INCLUDES=
LFLAGS=-L/usr/lib/x86_64-linux-gnu
LIBS=-lcurl -lpthread

SRC=requestor.c
OBJ=$(SRC:.c=.o)
MAIN=test

RM=rm -rf

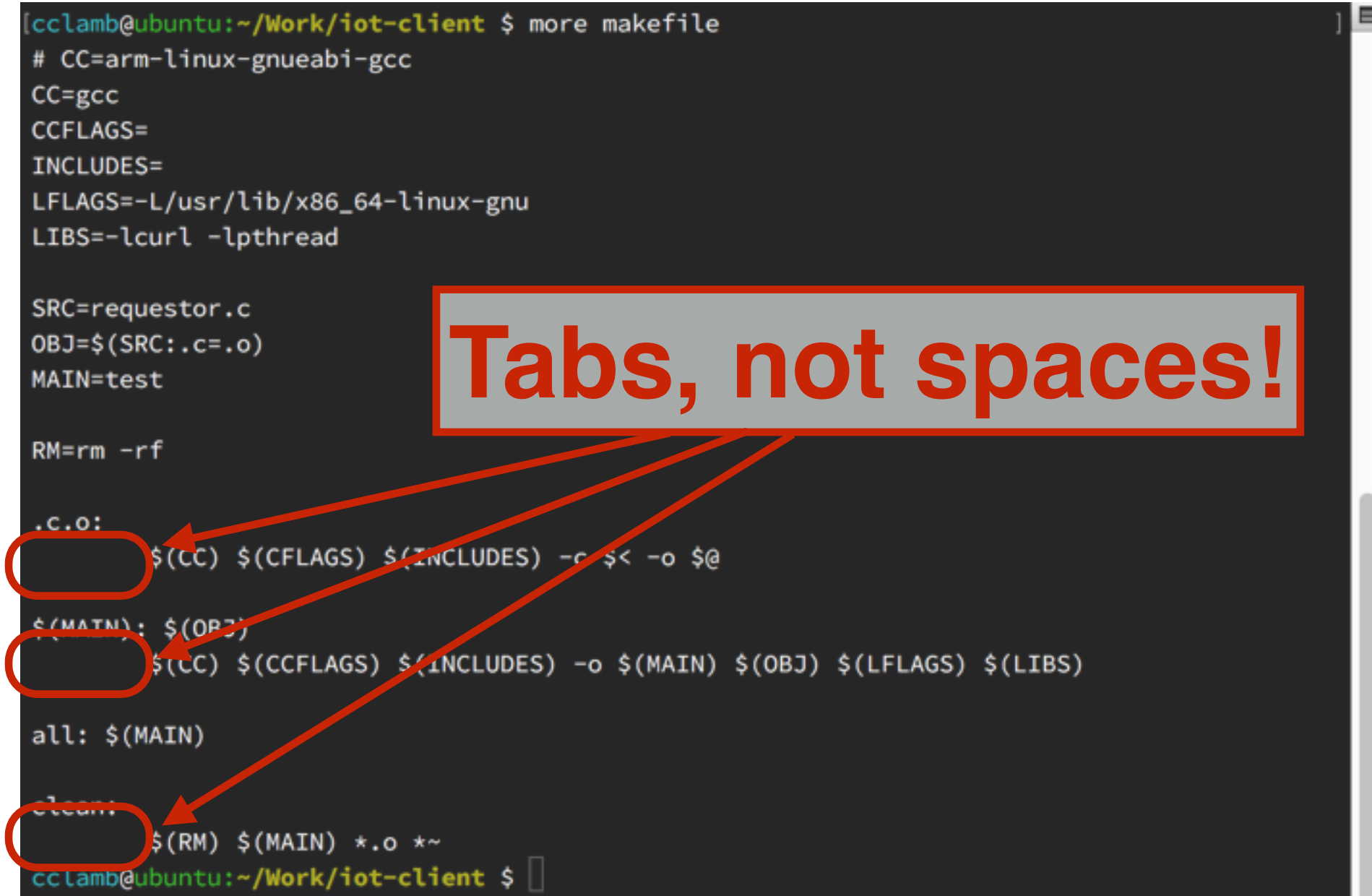
.c.o:
$(CC) $(CFLAGS) $(INCLUDES) -c $< -o $@

$(MAIN): $(OBJ)
$(CC) $(CCFLAGS) $(INCLUDES) -o $(MAIN) $(OBJ) $(LFLAGS) $(LIBS)

all: $(MAIN)

clean:
$(RM) $(MAIN) *.o *~

cclamb@ubuntu:~/Work/iot-client $
```



Makefile

Kind of cryptic, but very useful! We'll see more later.