

# IoT: Client Devices

An Example Startup Script

# Particular Script Format

```
#!/bin/sh  
<stuff that always happens>  
<start function>  
<stop function>  
<case handling args>  
exit $?
```

```
1 #!/bin/sh  
2  
3 DAEMON_NAME="DAEMON_NAME"  
4  
5 start() {  
6     printf "Starting $DAEMON_NAME: "  
7     echo "OK"  
8 }  
9  
10 stop() {  
11     printf "Stopping $DAEMON_NAME: "  
12     echo "OK"  
13 }  
14  
15 restart() {  
16     stop  
17     start  
18 }  
19  
20 case "$1" in  
21     start)  
22         start  
23         ;;  
24     stop)  
25         stop  
26         ;;  
27     restart|reload)  
28         restart  
29         ;;  
30     *)  
31         echo "Usage: $0 {start|stop|restart}"  
32         exit 1  
33 esac  
34  
35 exit $?  
36
```

```
Usage: ./sample_framed {start|stop|restart}
[cclamb@ubuntu:~ $ ./sample_framed start
Starting DAEMON NAME: OK
[cclamb@ubuntu:~ $ ./sample_framed stop
Stopping DAEMON NAME: OK
[cclamb@ubuntu:~ $ ./sample_framed restart
Stopping DAEMON NAME: OK
Starting DAEMON NAME: OK
cclamb@ubuntu:~ $
```

# Running the Frame

# Filling Out the Frame

Let's use our sample daemon

```
1 #!/bin/sh
2
3 DAEMON_NAME="sampled"
4
5 start() {
6     printf "Starting $DAEMON_NAME: "
7     /usr/sbin/$DAEMON_NAME
8     touch /var/lock/$DAEMON_NAME
9     echo "OK"
10 }
11
12 stop() {
13     printf "Stopping $DAEMON_NAME: "
14     killall $DAEMON_NAME
15     rm -f /var/lock/$DAEMON_NAME
16     echo "OK"
17 }
18
19 restart() {
20     stop
21     start
22 }
23
24 case "$1" in
25     start)
26         start
27         ;;
28     stop)
29         stop
30         ;;
31     restart|reload)
32         restart
33         ;;
34     *)
35         echo "Usage: $0 {start|stop|restart}"
36         exit 1
37 esac
38
39 exit $?
```

# Move sampled to image

## MOVE SAMPLED TO DEVICE

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- ▶ `scp -P 2222 sampled <username>@localhost:~/`

## MOVE IT TO /USR/SBIN

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- ▶ ...this is the location pointed to in start script

## MOVE START SCRIPT TO DEVICE

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- ▶ place in `/etc/init.d`
- ▶ I called `S80sampled`
- ▶ Reboot, login, and check out `/var/log/messages`