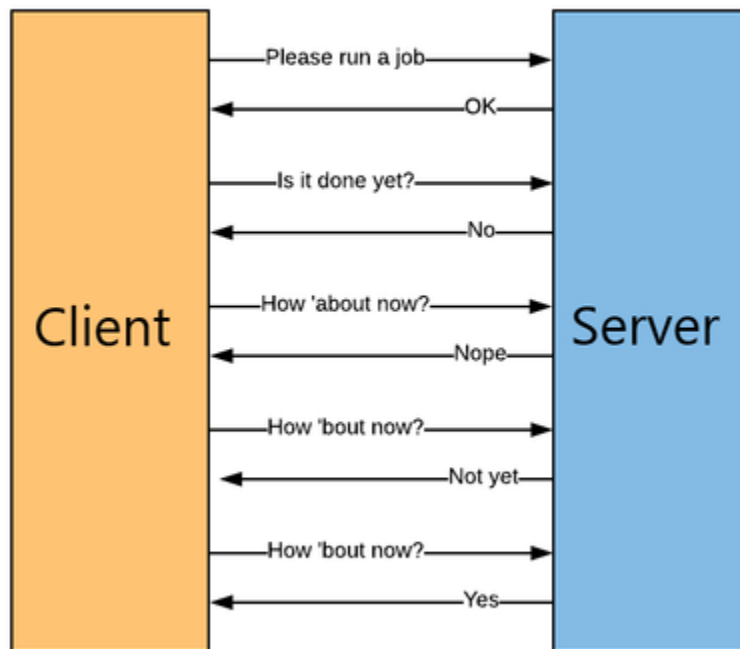


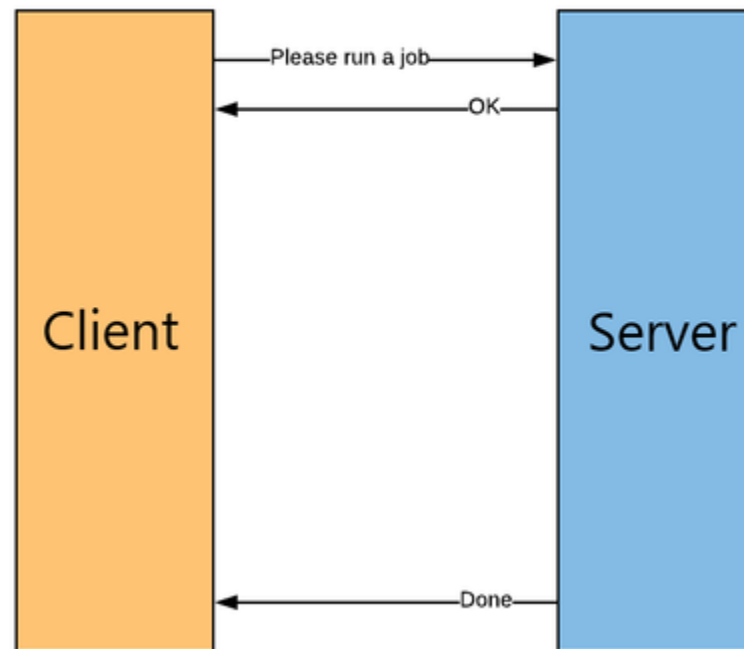
# 95-733 Internet of Things HTTP Webhooks

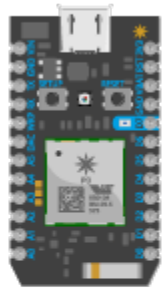
# Why Use Webhooks?

Polling with APIs



Webhooks

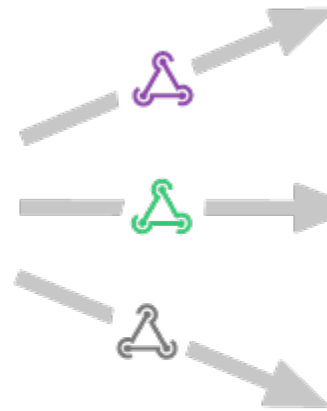




**Your Device**



**Particle Cloud**



**Web Services**

## Device publishes events to the cloud

```
void loop() {  
    String temp = String(random(60, 80));  
    Particle.publish("temp", temp, PRIVATE);  
    delay(30000);  
}
```

Private implies the event is not available to the world.

## Webhooks in the cloud

- Upon request by the device
  - The Particle cloud makes an HTTP request to a predefined URL.
  - The URL was established by a subscriber earlier.
  - Particle may receive an HTTP response.
  - That response may also be received by the device.

## Device subscribing to an event in the cloud

```
void setup() {  
    // Subscribe to the webhook response event  
    Particle.subscribe("hook-response/get_temp", myHandler, MY_DEVICES);  
}
```

```
void myHandler(const char *event, const char *data) {  
    // Handle the webhook response  
}
```

We are subscribing to a webhook's - HTTP response.