

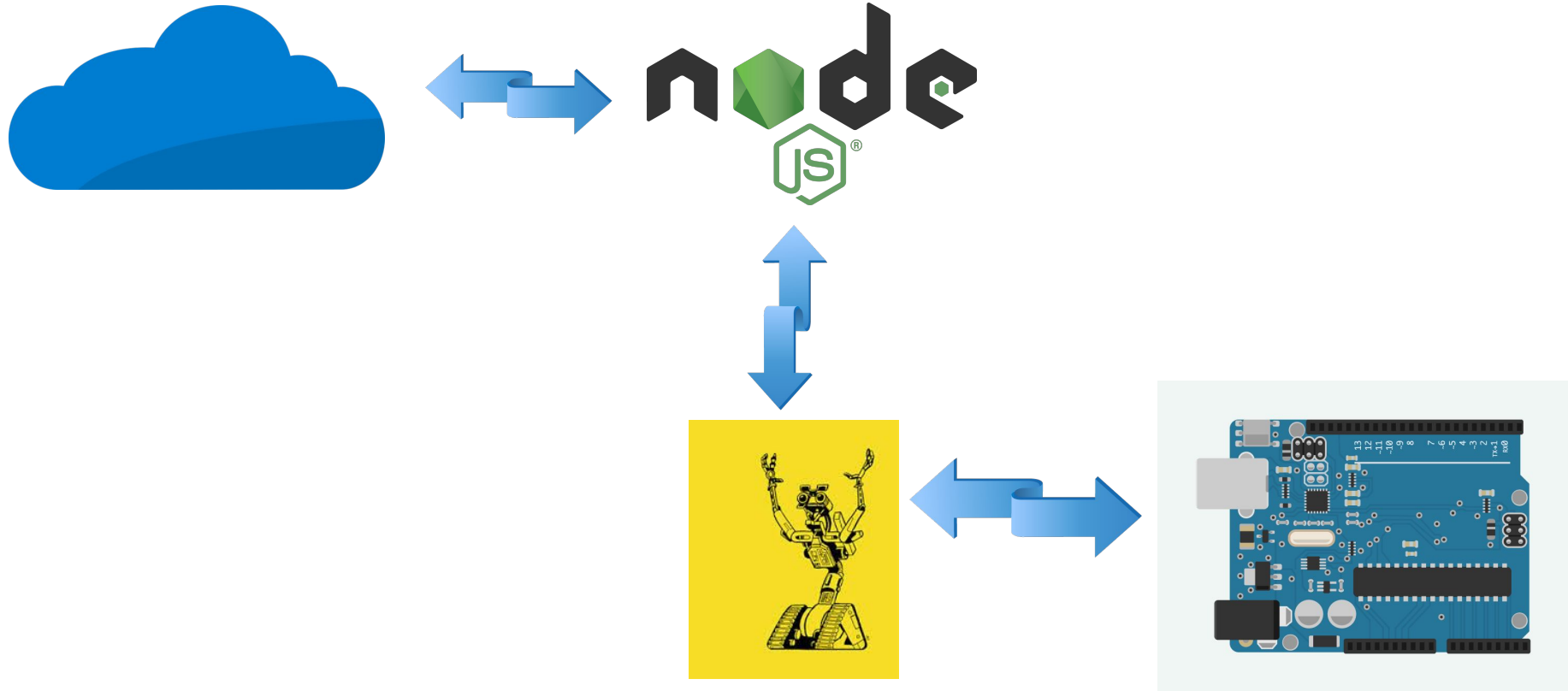
JavaScript IoT [Johnny-Five]



Same code that runs Arduino and Connects a web server

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Why Johnny-Five in IoT?



Create a Node Project

- Using ``npm init``
- Then use the following commands to install dependencies
 - ``npm install johnny-five``
 - ``npm install requestify``
- Upload StandardFirmata to arduino

The Code

```
var five = require('johnny-five');  
var requestify = require('requestify');
```

```
var board = new five.Board({port: "COM3"});  
var roll = '1203043';  
var batch = '2k12';  
var ledpin = 13;
```

```
var success = false;
```

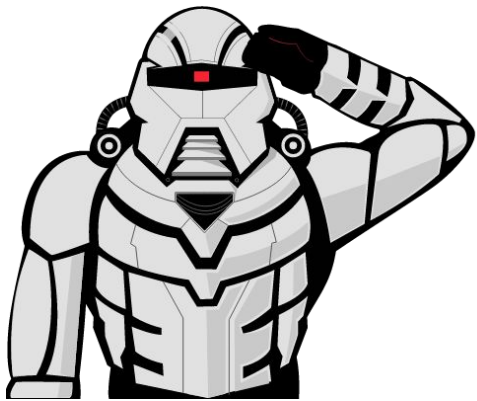
- Just like before, create an `index.js` file
- Put the following code
- Enter `node index.js` command at the command window

```
//Enter roll and batch
```

```
requestify.get('http://webwork.manash.me/esp8266.php?apples=' + batch +  
'&oranges=' + roll).then(function(response) {  
    response.getBody();  
    console.log(response.body);  
    var pos = response.body.search('SUCCESS');  
    if (pos >= 0) {  
        success = true;  
    }  
});
```

```
board.on('ready', function() {  
    var led = new five.Led(ledpin);  
    if (success) {  
        led.blink(500);  
    }  
});
```

Similar to Johnny-Five : Cylon.JS



<https://cylonjs.com/>