Getting Started with Octoblu

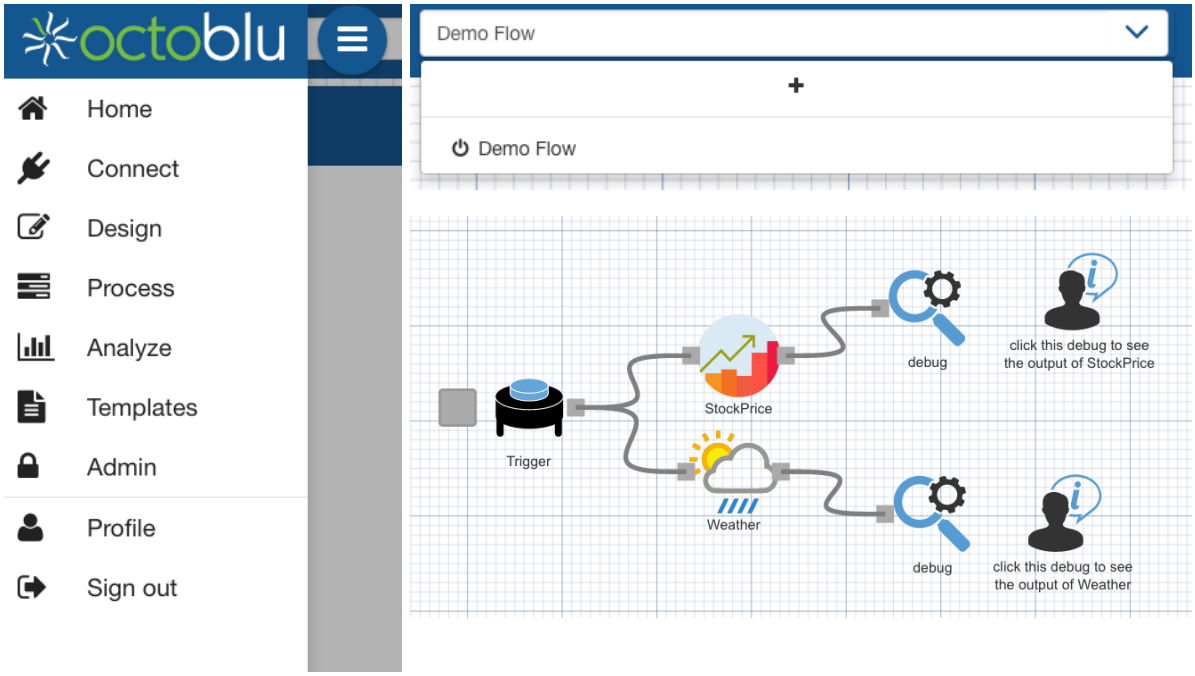
Octoblu enables companies to create IoT services with secure real-time exchange of data. The services are built an open communications and management platform that supports a variety of protocols for physical devices to communicate seamlessly with each other, people, legacy applications, and cloud services. Through public, private, or hybrid clouds users can connect, design, process, and analyze the flow of information. All services have been designed through a robust security and right management architecture.

Using Octoblu APIs you can easily integrate existing or new applications on to the Octoblu IoT platform. In this way you can add exponential value to your product via the power of being connected to a myriad of platforms, devices, and web-services through one messaging standard.

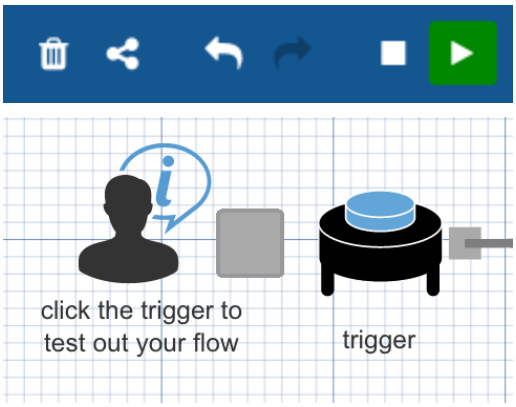
We've provided resources to get started with our API, applications, visual designer, and open plugin architecture. Our goal is to help you harness the power of the Octoblu ecosystem to meet your IoT goals.

http://www.citrix.com/go/citrix-developer/octoblu-developer-community.html

Open the Design Page



Deploy and Test Flow

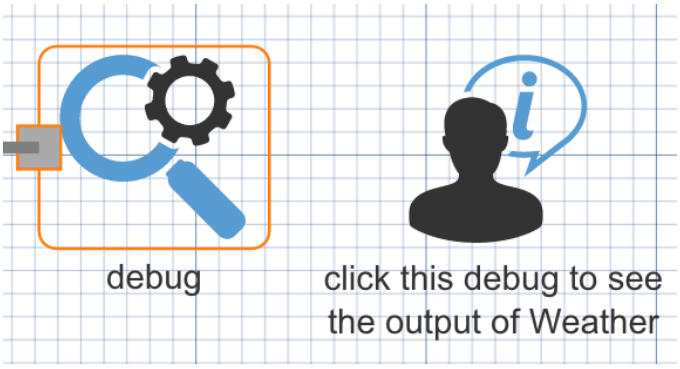


Open Debug Console

1/28/15 12:18 PM - debug

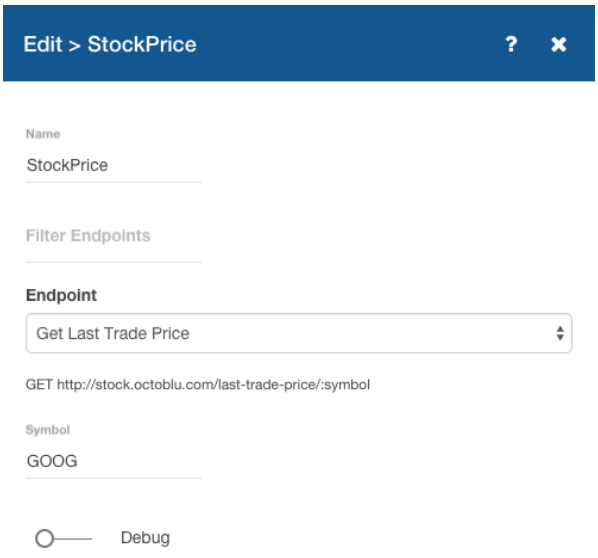

```
{
  "date": "2015-01-28T19:18:17.476Z",
  "message": {
    "node": "2eb29667-a722-11e4-81b1-19e62bd918bd",
    "name": "debug",
    "msgType": "input",
    "msg": {
      "temperature": 68.59
    }
  }
}
```

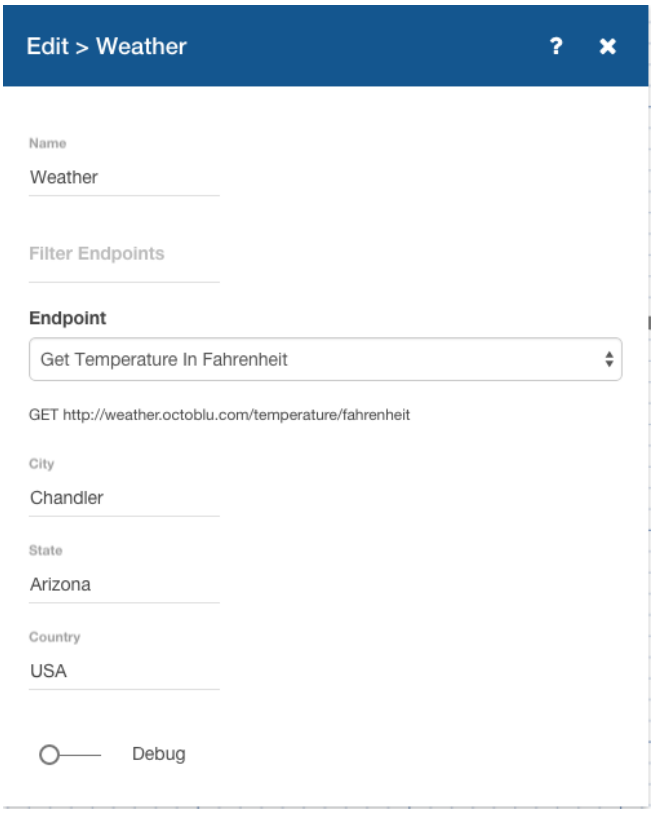

You'll see output like this = "msg" : { "temperature" : 68.59 }
This is the **JSON message** that was sent from the **Weather** node to the **debug** node.



You can tie the output of any node to a **Debug.**
You can also flip a **debug flag.**

Select a channel node to edit it. You can search for and select any available API endpoint and the parameters will appear.

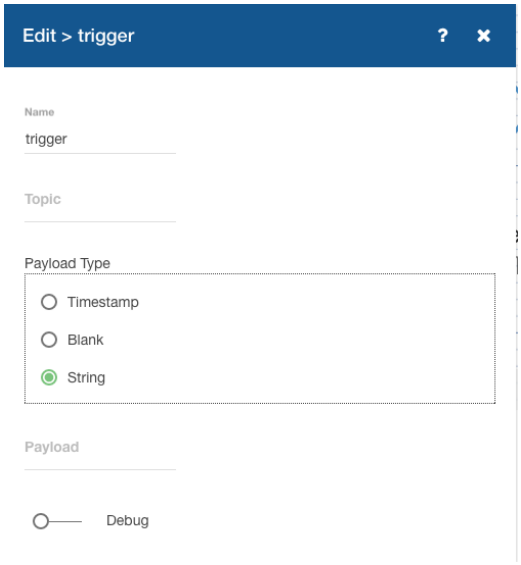


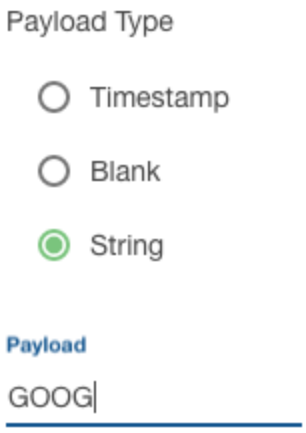


We're going to edit the **Stock price node.**

Using {{**double curly braces**}} you can **reference an incoming message**. Earlier we saw that the message the Weather node outputs is a **JSON** object of msg.temperature.

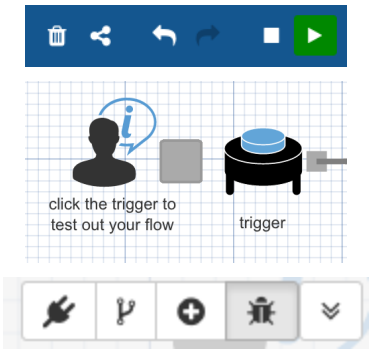
The **trigger node** can be told to send out a specified message as msg.payload





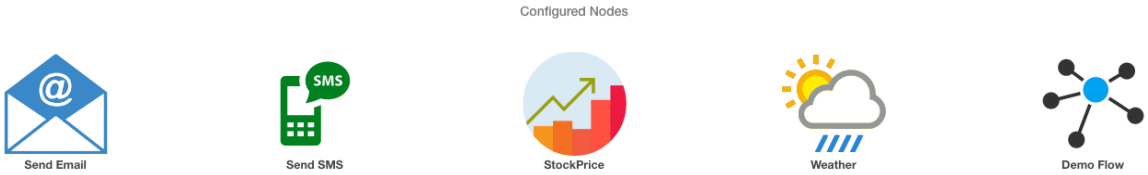
We're going send out a Stock Symbol

Re-Deploy your flow, hit the trigger, and open the debug console. You'll see that the "GOOG" stock price is shown. The **Stock node** referenced the message that was passed from the trigger and used that in an **API call** to the Stock Price channel.

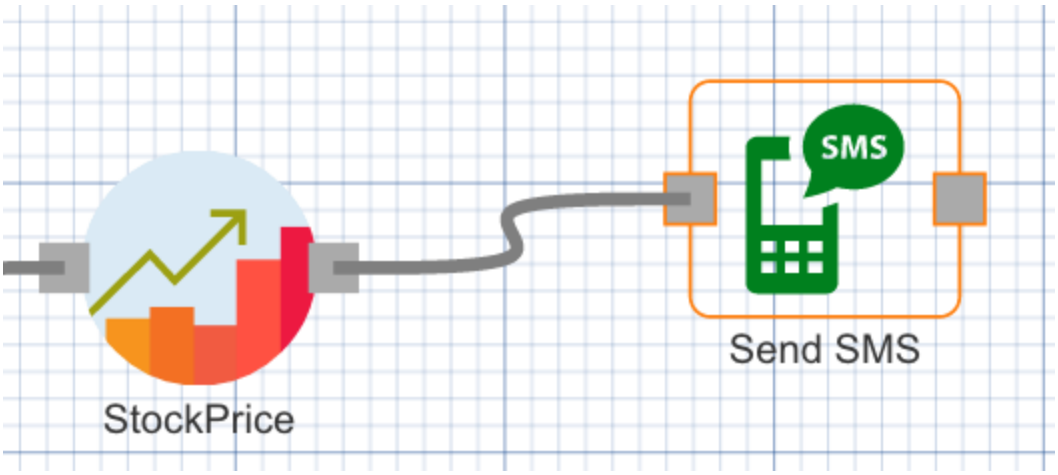


Lets edit our flow to send the Stock price as an SMS!

Open the Configured nodes tab.



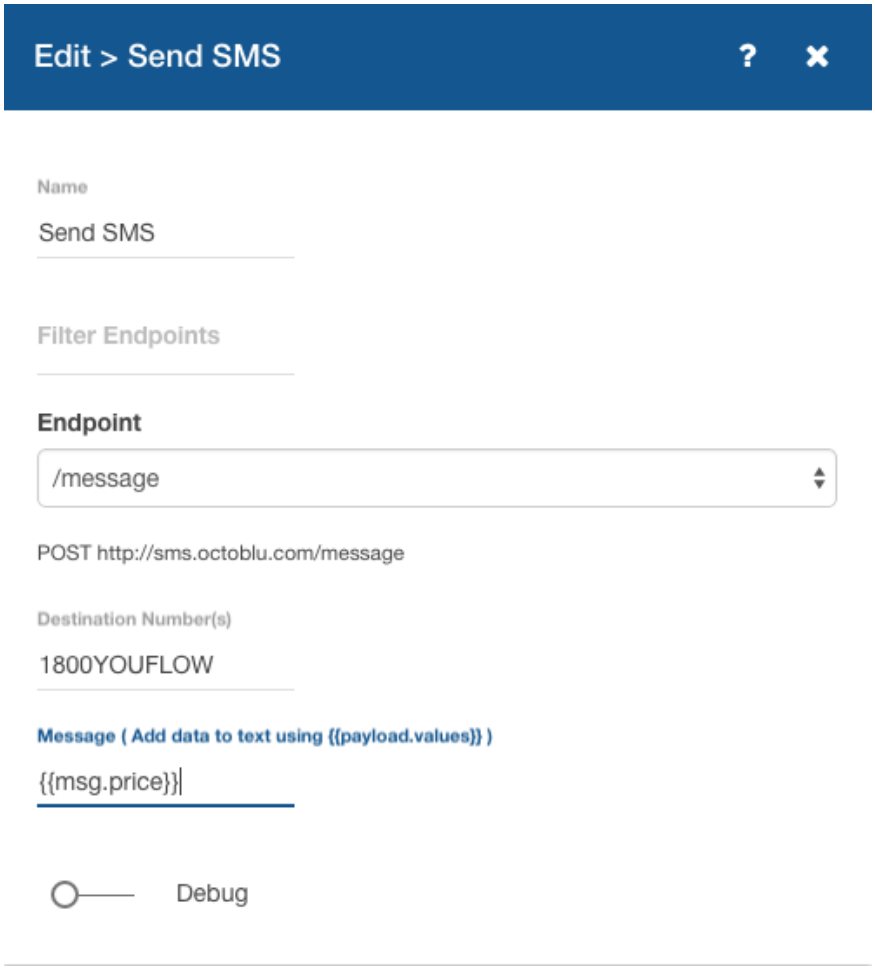
Select the SMS node and drop it into your flow.



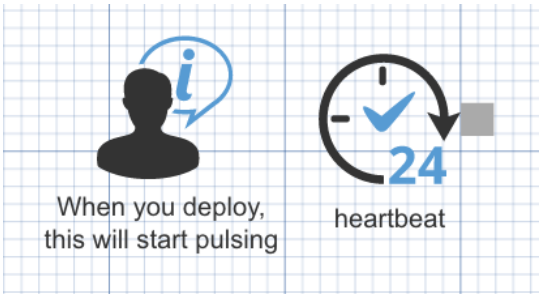
Wire your Stock Price node to the SMS node.

Edit your SMS node as such.

- Add your number and include a Country code, use “1” for the US.
- Reference msg.price , the expected output of the Stock Price node



Re-Deploy, and press the trigger! You should recieve a text message in a few seconds with the current **GOOG Stock Price!**



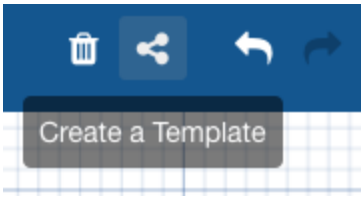
You can use the **interval node** in place of a **trigger**. It will behave the same way except at an **interval in milliseconds!**

There is more functionality that you can add from the **Logic Operators tab.**
For example, you can use these comparator nodes to control the flow of messages based on different conditions.

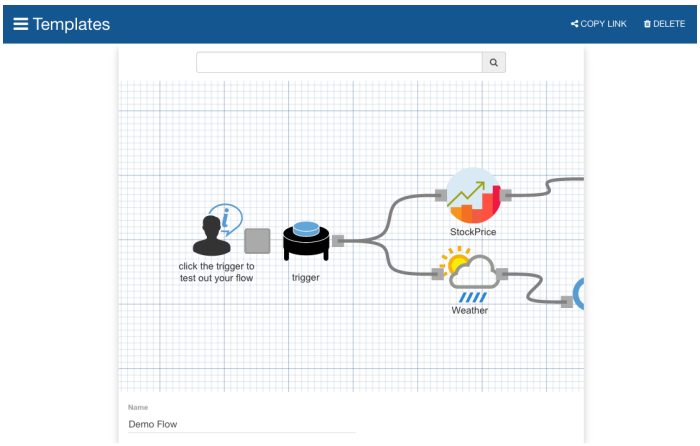
For example, using the **Greater Than** node to check the referenced msg.payload to see if it is greater than 10. If the condition is met, msg.payload will be passed to the output of the Greater Than node. Anything wired on that other side will receive the original msg.payload.

Sharing and Importing Flows

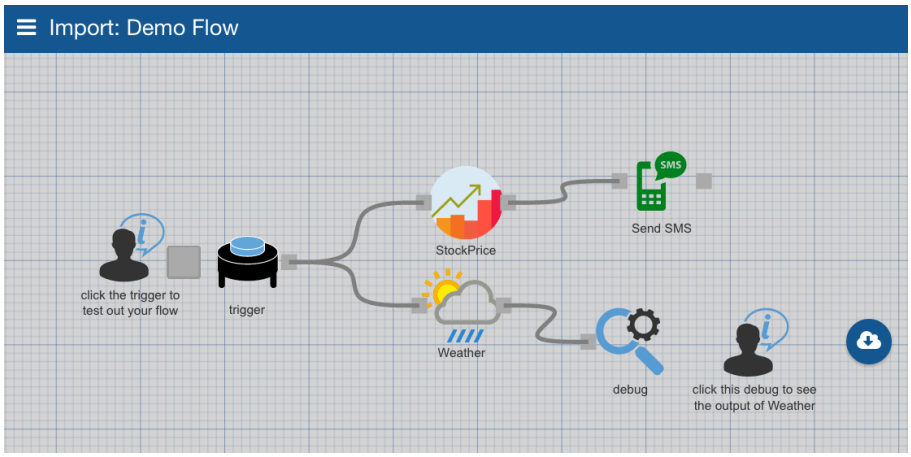
Click the **Create a Template** icon.



In the follow page, name your flow and then click **copy link**



That link can be shared and will open to an Import flow page. Press the **cloud icon** to add it to your account.



Congratulations!

You should now have a basic mastery of Octoblu usage! The best way to get better at creating amazing IoT applications is to play and experiment. Use triggers and the debug node to test and see the output from different nodes to help yourself understand more. We'll be posting more tutorials and documentation. Also be sure to checkout www.hackster.io/octoblu for tutorials on adding hardware and devices to your project using Gateblu and Microblu!