

Dumpi
Bot



THE DEVELOPER'S CONFERENCE

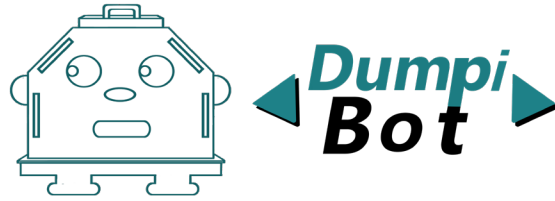
Trilha – IoT

Leonardo Matayoshi

Fundador da LYMTEC - Dumpi Bot



Apresentação



Dumpi Bots conectados na nuvem com MQTT e dashboard node-red



Agenda



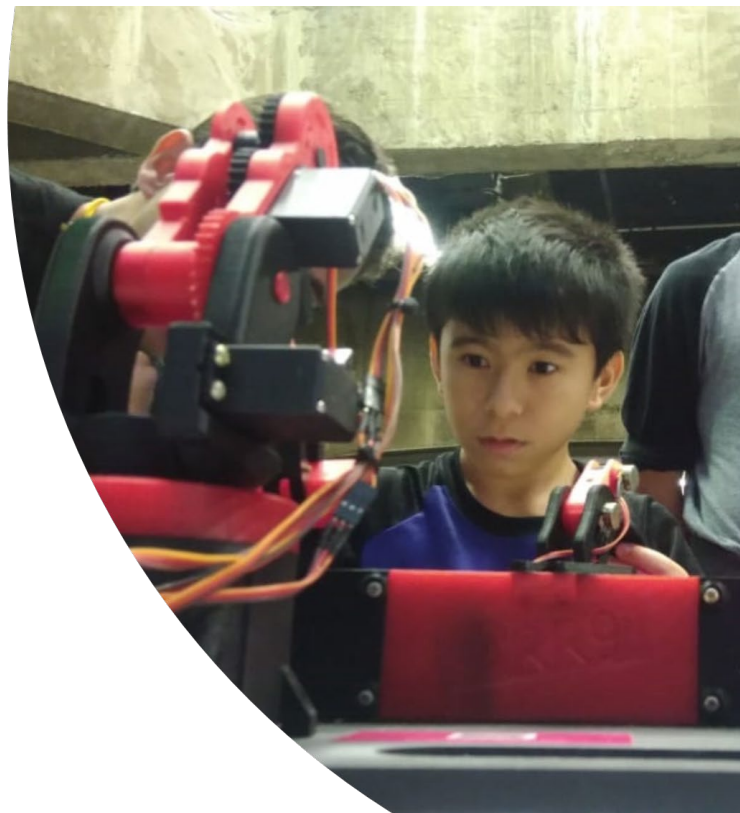
- Apresentação
 - LYMTEC e Dumpi Bot
- Conceitos de IoT
 - Sensores, atuadores e Cloud
- Apresentação do Projeto
 - MQTT e Node red
- Demonstração dos Produtos
 - Sensores e atuadores usando o Nodemcu



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DUMPI BOT UNIQUE EXPERIENCE

A “**Experiência Única**”
de construir algo de
forma colaborativa,
divertida e educativa.



Dumpi bot



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➤ Dumpi - Robô para crianças e jovens

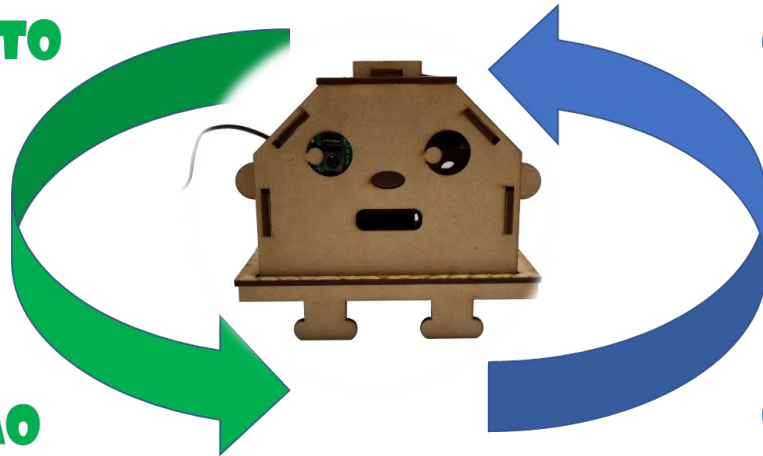
MONTA ROBÔ

PLANEJAMENTO

CRIATIVIDADE

PRODUÇÃO

COMUNICAÇÃO



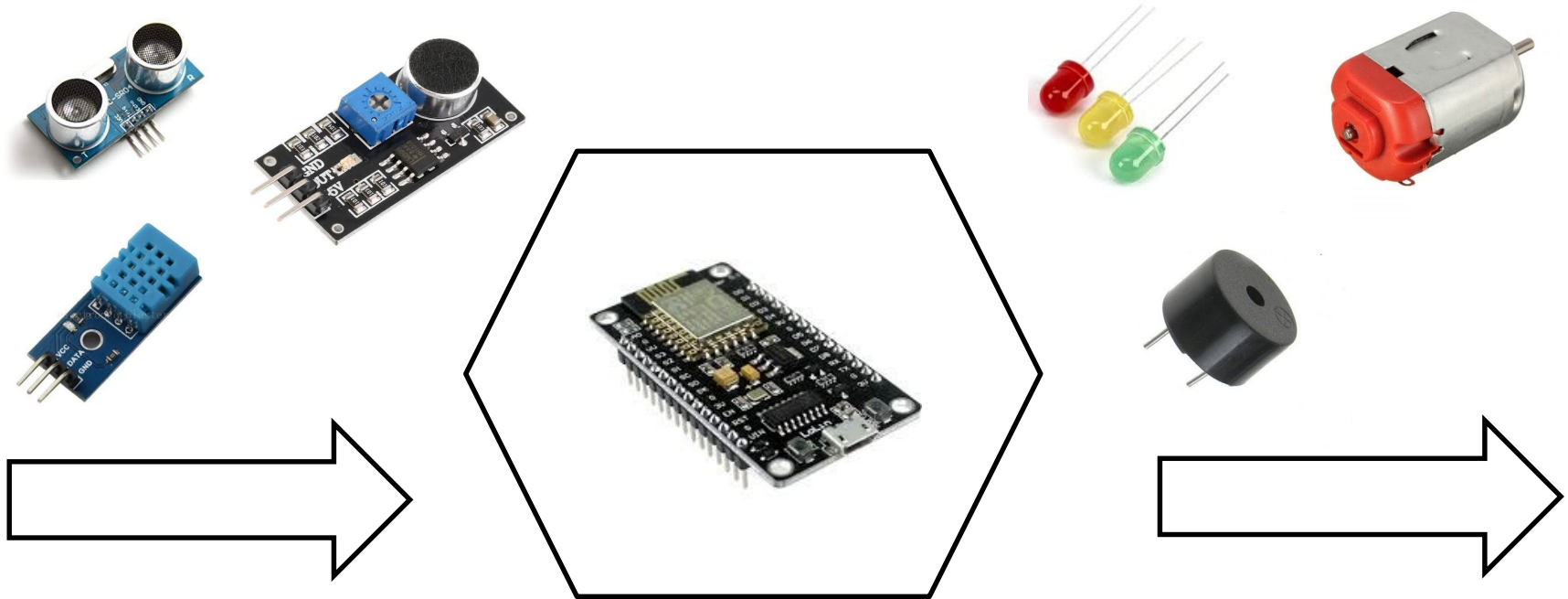
Conceitos de IoT

- Internet das coisas
 - Sensores
 - Atuadores
 - Nodemcu – ESP8266
 - Nuvem – Cloud Services
 - <https://www.tinkercad.com/>



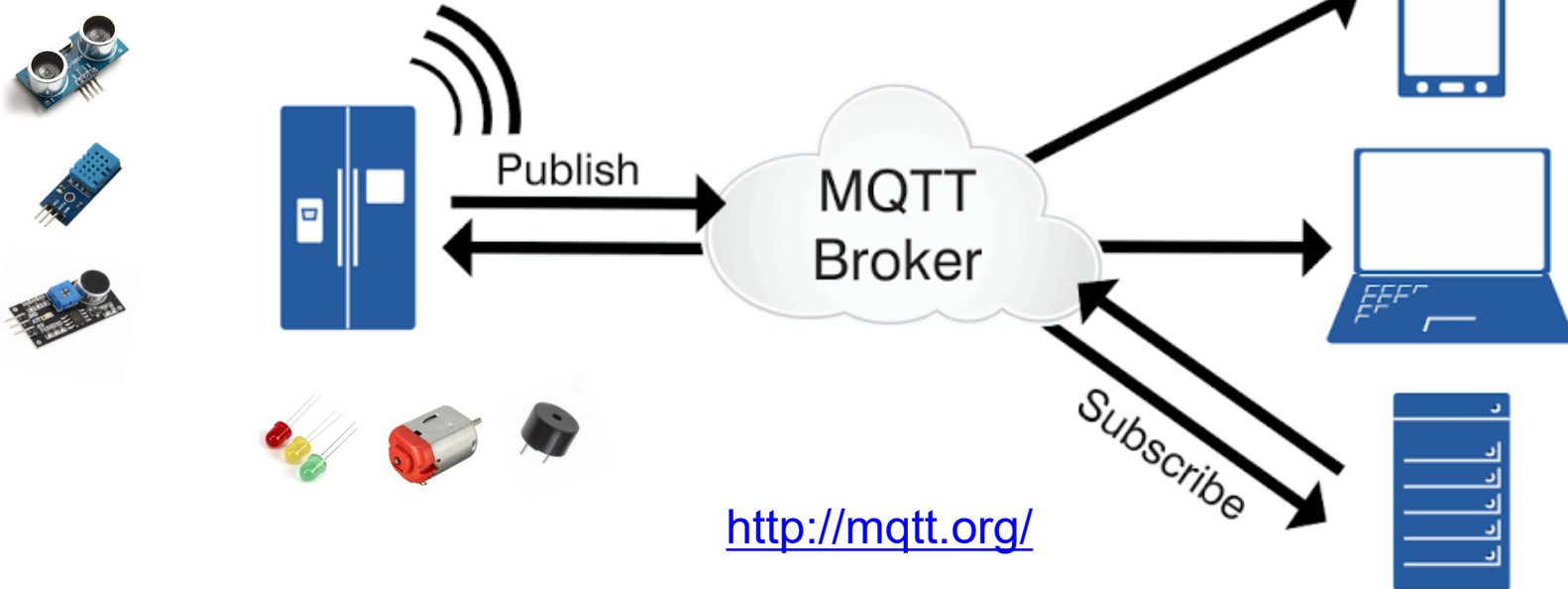
Conceitos de IoT

➤ Os componentes



MQTT

➤ Protocolo de comunicação M2M e IoT



Projetos IoT

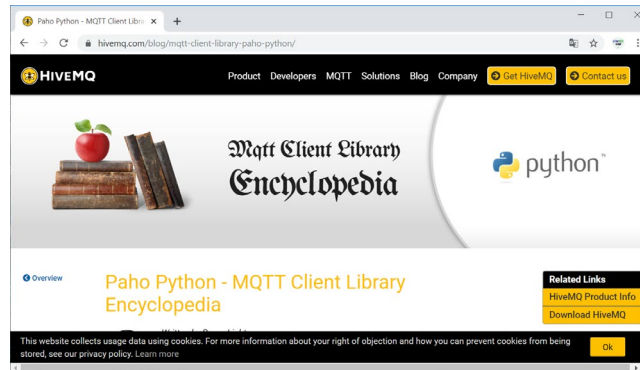
➤ Plataformas

➤ MQTT

➤ Cloud services

➤ Open source

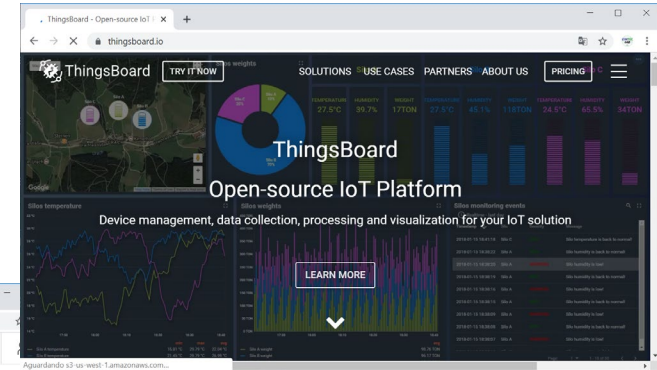
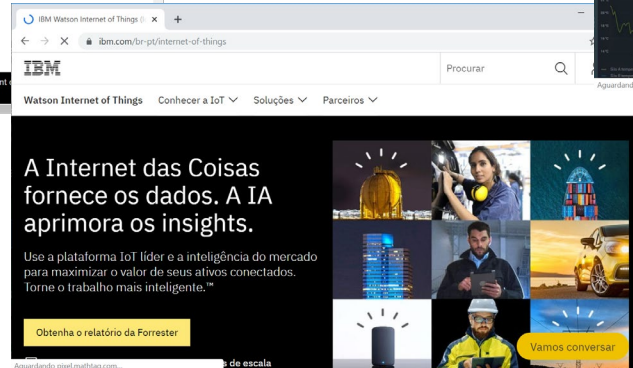
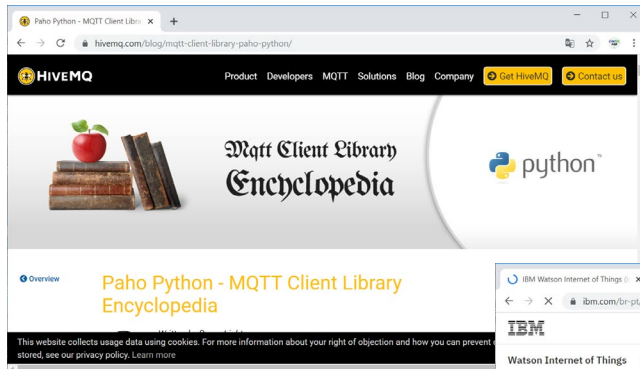
➤ Node-red



Projetos IoT

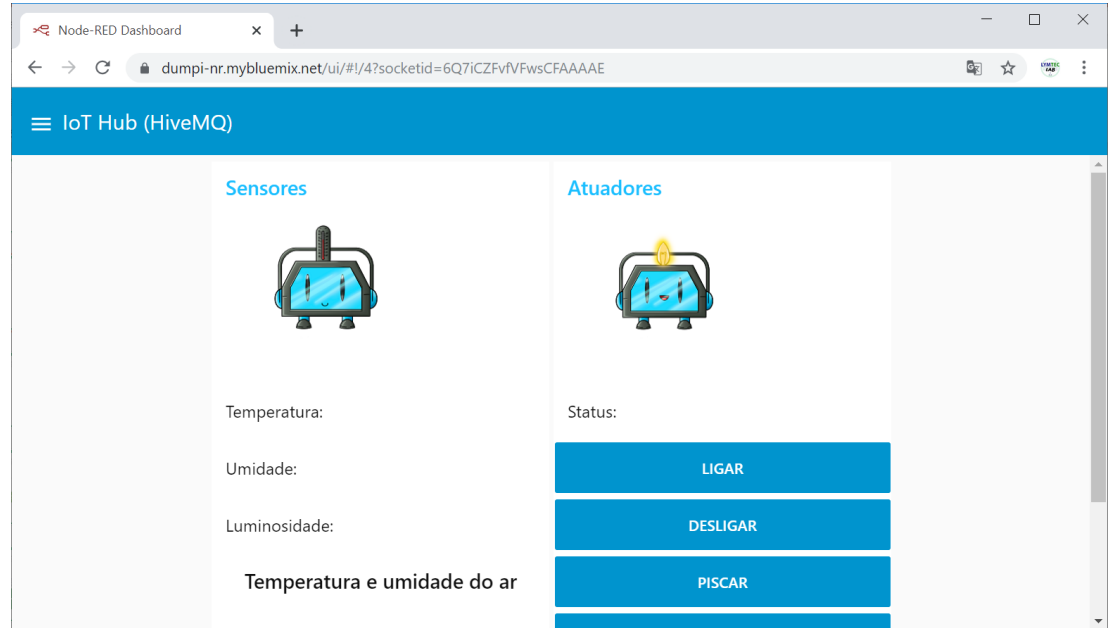
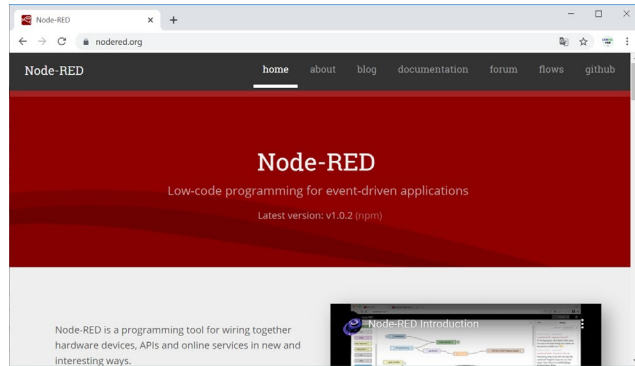


➤ Plataformas



Projetos IoT

➤ Plataformas

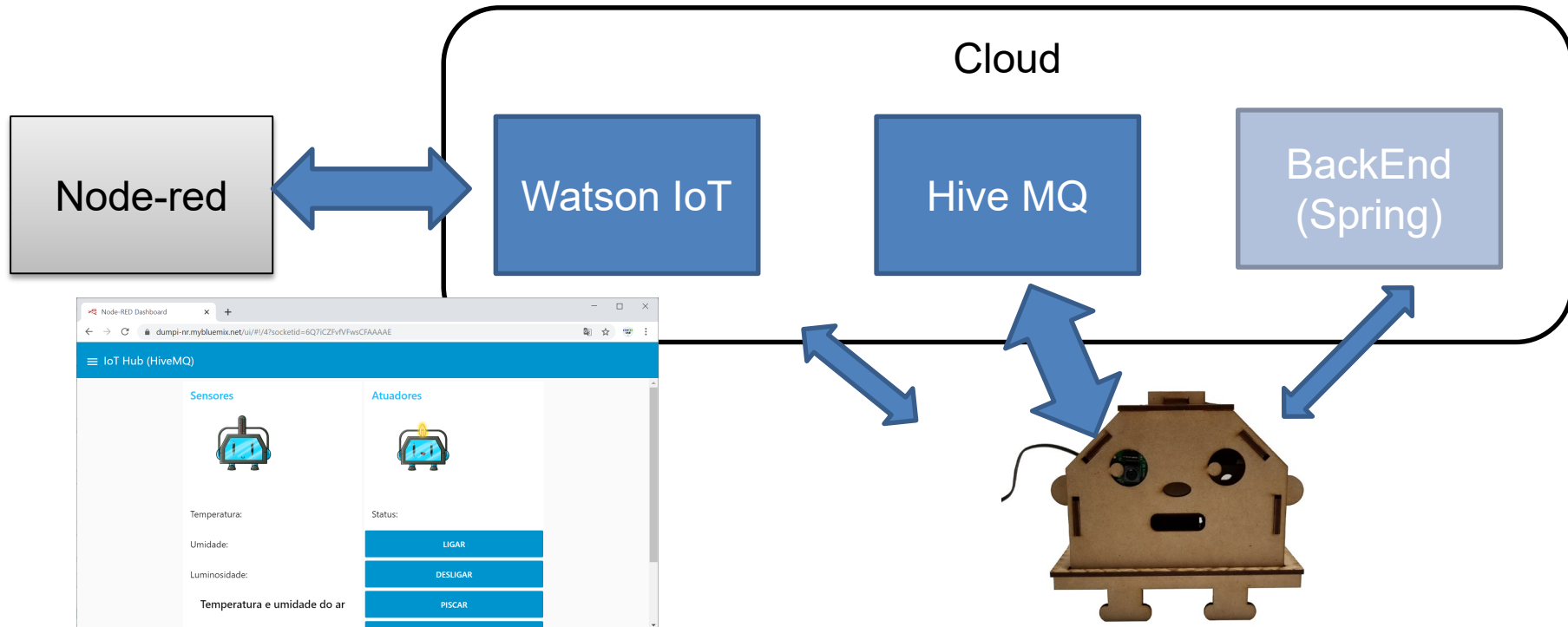


Dumpi - nodemcu



```
void loop () {  
    -> Verifica Wifi  
    -> Envia Dados para o MQTT  
    -> Envia Dados para o Java(GET)  
    -> Envia Dados para o WIP (POST)  
    -> Recebe comando do Java (GET)  
    -> Espera 1s  
}
```

Topologia



Plataforma IoT

➤ Back End

➤ Java – Spring cloud

➤ Eureka

➤ Zuul

➤ Spring boot Application

➤ Elasticsearch + Kibana



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Spring Cloud Components



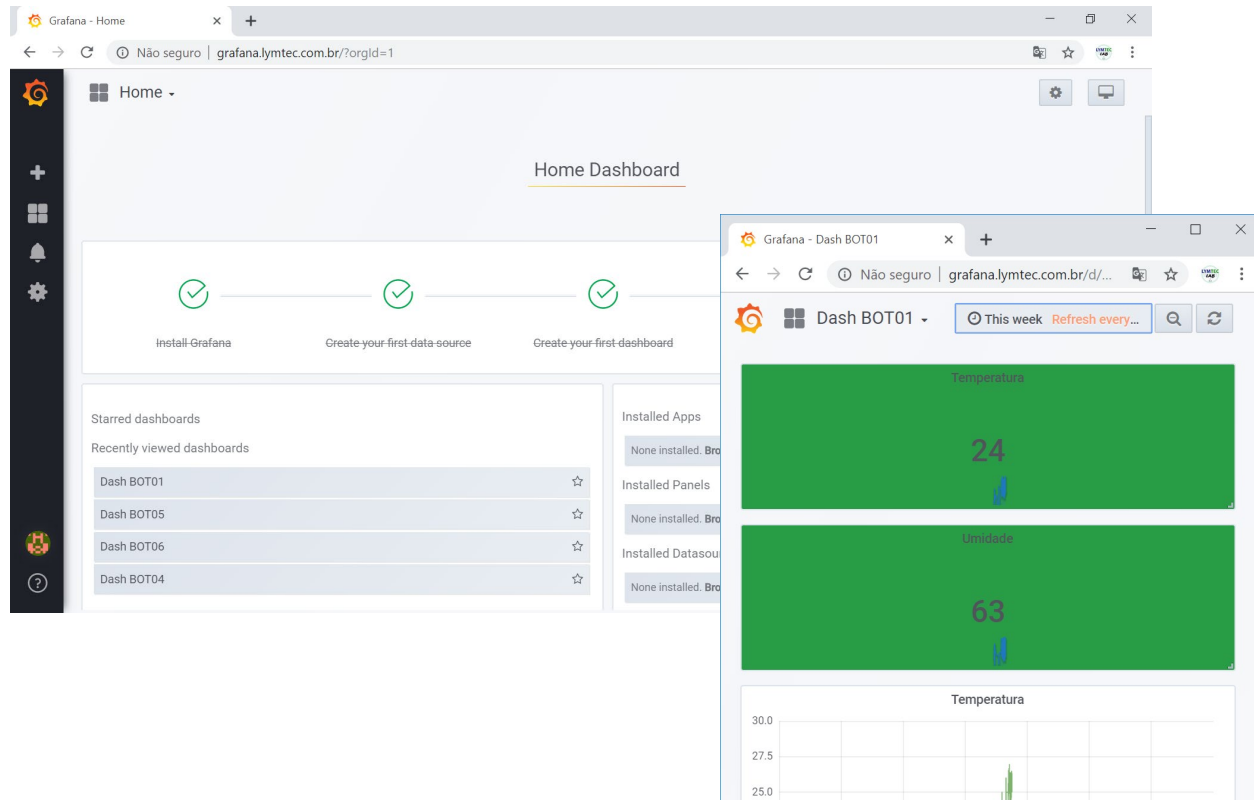
Visualização da Dados



➤ Dashboards

➤ Kibana

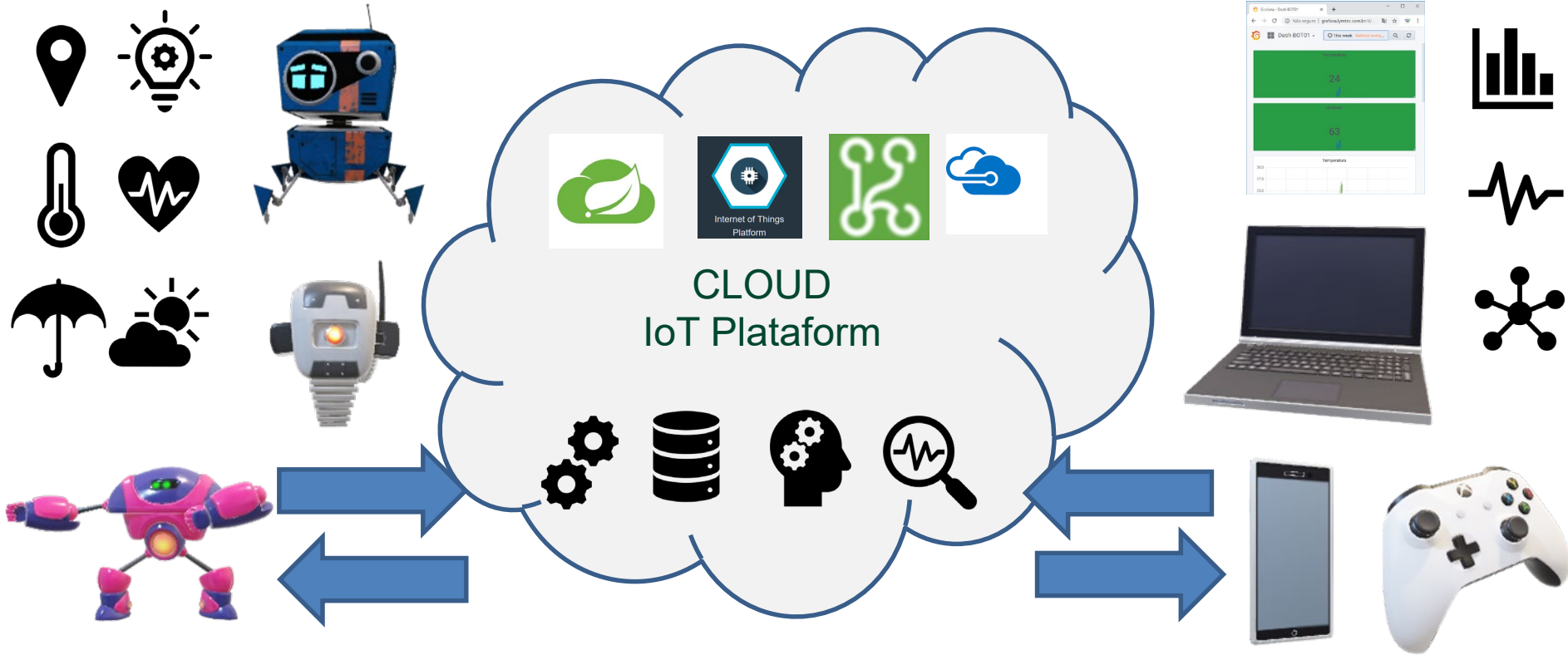
➤ Grafana



Demo Topologia



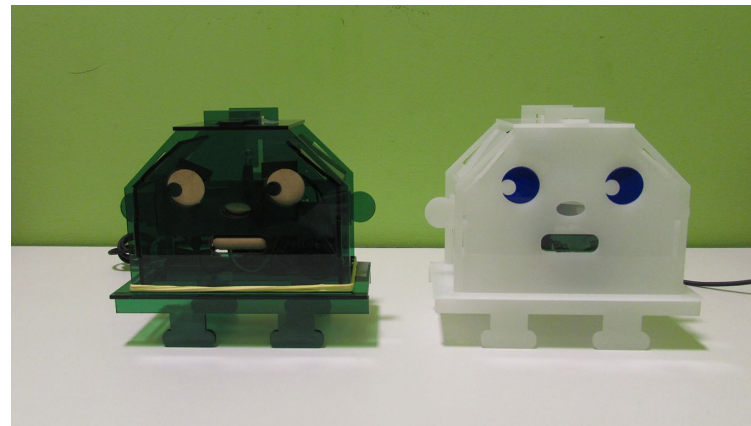
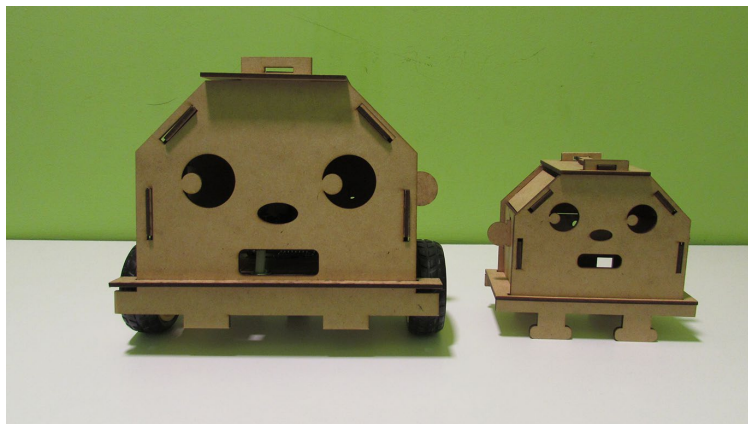
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Demo

➤ Funcionamento dos protótipos

➤ Dumpi



<https://www.youtube.com/watch?v=N1zmpSZ6wRw>

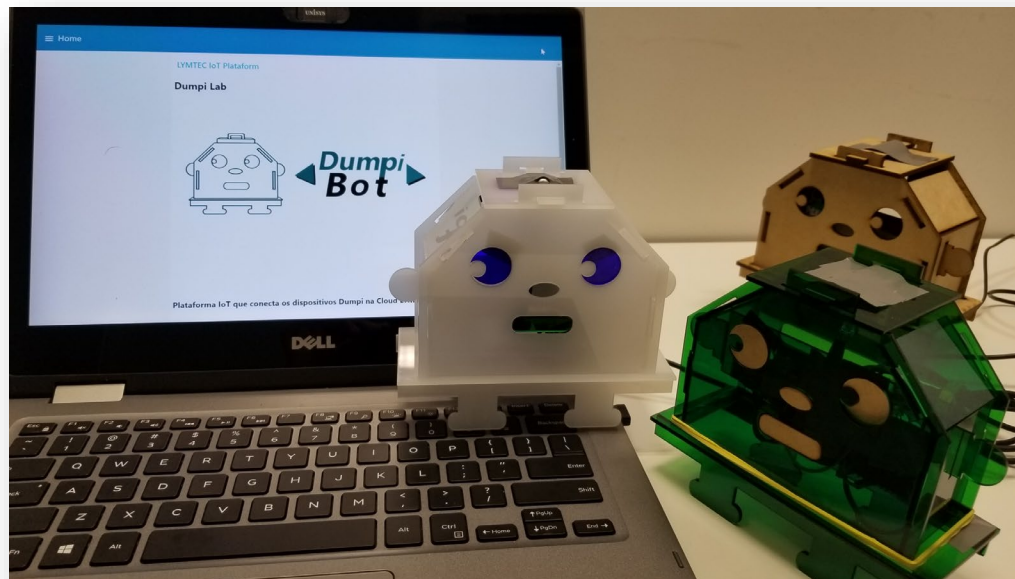
<http://grafana.lymtec.com.br/d/qec8r8gWk/dash-bot01?orgId=1&from=now-15m&to=now&refresh=5s>

Demo



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➤ Funcionamento do Dumpi



<https://youtu.be/HgYSQvqBaIE>

Referências

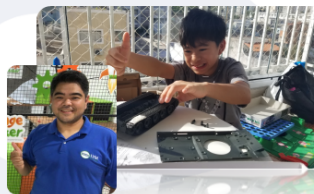


- <https://www.hivemq.com/company/>
- <https://nodered.org/>

Dúvidas

- Comentários
- Sugestões

Leonardo Matayoshi

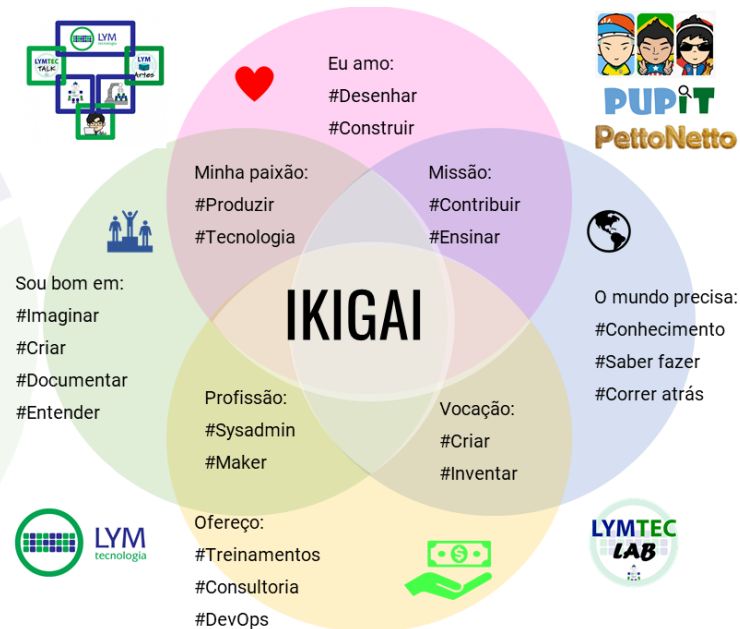


Você em poucas palavras

Engenheiro
Sysadmin
Maker
Empreendedor
Sonhador

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 JORNADAIKIGAI.COM





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MINHA JORNADA

TRAJETÓRIA PROFISSIONAL



UNIBANCO



NETSHOES

2001

2006

2011

2016

2019



T&M Consultoria em informática



LYM tecnologia

LYMTEC LAB

- Minha carreira corporativa

EMPREENDEDOR



LYM tecnologia



Consultoria



Startup



2014

2015

2016

2017

2018

2019

Ideias de Startup

PettoNetto

PUPIT



BR#ATOM



Dumpi Bot

- Experiências, aprendizados, sucessos e fracassos

Leonardo Matayoshi



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- Fundador da LYMTEC - Dumpi Bot
- Engenheiro Eletricista - Formação
- Sysadmin – Cultura DevOps
- Empreendedor - Startup
- Maker – Projetos com robótica e IoT para educação

Obrigado



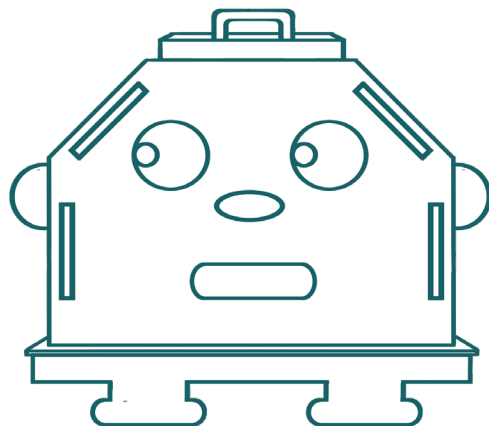
➤ Contatos – Leonardo Matayoshi

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- @lymtec

<http://www.thedevelopersconference.com.br/palestrante/leonardo-matayoshi>



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