



RIPE 79 | IoT Session | Amsterdam | 17 October 2019

Update on the IoT Hackathon Rotterdam 2019

Internet all the things!

Outline

1. What we did: Organisation

2. What they did: PARGAV

Maria

Survival Layer

Aethernauts

3. What's coming up: t.b.d.



Organisation



...and have a team...

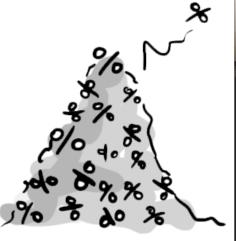
- Pick a date
- Have 9 conference calls
- Organise venue, food, drinks, stickers, t-shirts...
- Write 2 articles and promote the hell out of this hackathon

PARGAV: Best Interdisciplinary Work



Team: Anna Maria, Antonios, Grissel, Peter, Petros,

Robert, Vasileios



PARGAV: Best Interdisciplinary Work

Goal: Detecting malicious device behaviour to prevent/stop i.e. DDoS attacks

Approach: Identifying network anomalies by analyzing network traffic patterns

Team: Anna Maria, Antonios, Grissel, Peter, Petros, Robert, Vasileios



Maria: Most Complete Project



Team: Anup, Vladislav, Cristel, Marco, Philip, Randy

Maria: Most Complete Project

Goal: Using Raspberry Pi as a LoRaWAN gateway and

as a RIPE Atlas probe

Approach: Adding RIPE probe funcionality to a TTN

(LoRaWAN) Gateway

Team: Anup, Vladislav, Cristel, Marco, Philip, Randy



Survival Layer: Most Post-Apocalyptic Project





Team: Arman, Demian, Desiree, Pouyan, Renan, Tasos

Survival Layer: Most Post-Apocalyptic Project

Goal: Sending information to fragmented networks,

where there is no access to the global Internet

Approach: Using raspbi as local NDN forwarder between

the consumer requesting information and a drone

hovering the area to disseminate information

Team: Arman, Demian, Desiree, Pouyan, Renan, Tasos



Aethernauts: Most Technology Layers



Team: Christoph, Craig, Michael (& Christian, Kees)



Aethernauts: Most Technology Layers

Goal: WLAN probe tracking WLAN infrastructures

Approach: Measuring performance indicators using MicroPython on a ESP32

Team: Christoph, Craig, Michael (& Christian, Kees)





Coming up...

- Article on RIPE labs
- Publishing code
- Continuity at RIPE80
- More hackathons!



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..and all our participants!! <3