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RIPE 79 | IoT Session | Amsterdam | 17 October 2019

Update on the IoT Hackathon Rotterdam 2019

Internet all the things!

Outline

1. What we did:
2. What they did:

Organisation
PARGAV
Maria
Survival Layer
Aethernauts
t.b.d.

3. What's coming up:



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 functionality 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!



Thanks to:

- Jim Reid, **IoT-WG co-chair**
- Sandoche Balakrichenan, **IoT-WG co-chair / AFNIC**
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- Vesna Manojlovic, Mirjam Kuehne & Adonis Stergiopoulos,
RIPE NCC

..and all our **participants!!** <3