Rhiot

The overview

Brought to you by Henryk Konsek



Henryk Konsek

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Engineer at Red Hat. Open source hacker (Apache Camel, JBoss Fabric8, JBoss Hawt.io). Keen on the marriage of the Internet Of Things, messaging and the cloud.

- Poland
- Use Joined January 2009
- 62 Photos and videos







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- engineer at Red Hat
- open source contributor
- focused on the IoT

http://rhiot.io

https://github.com/rhiot/rhiot

■ readme.md

Rhiot - the messaging platform for the Internet Of Things



Rhiot is the messaging platform for the Internet Of Things. We are focused on the adoption of the Red Hat JBoss middleware portfolio to provide the solutions to the common IoT-related challenges.

Rhiot comes with the following features:

- IoT gateway software
- Camel components for the IoT
- · Backend cloud services (Rhiot Cloud)
- · Web console for managing the devices, gateways and Cloudlets
- · IoT deployment utilities
- · Performance Testing Framework for the IoT gateways

Messaging as the first-class citizen.

Gateway



- Camel and Kura
- glued by Vert.x
- non-OSGi

Extra IoT components for Camel



- extra Eclipse Kura integration
- GPIO
- CoAP (Californium)
- Tinkerforge
- BU353 GPS

Deployment & Performance



- simple TCP device scanner
- utilities to deploy to devices
- performance benchmarks frameworks

Cloudlets



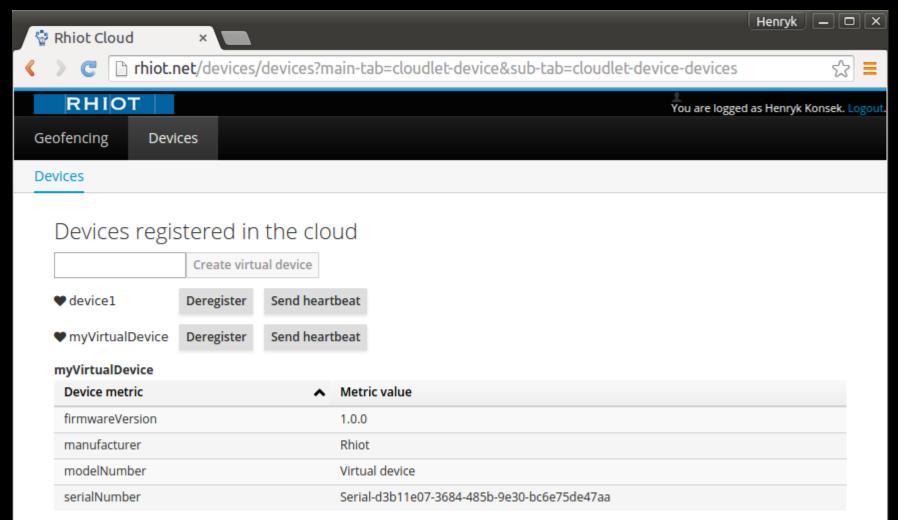
- backend microservices
- extensible building blocks for IoT backend
- Camel and ActiveMQ are first-class citizens
- non-OSGi, Docker-friendly fat-jar

Cloudlet example - device management



- based on Eclipse Leshan
- clustering friendly
- LWM2M/REST/MQTT APIs
- support for virtual devices

Spiffy UI!





Eclipse IoT platform and Rhiot?



- reinventing the wheel is bad
- we would like to reuse instead of writing everything from scratch
- generic IoT platform at Eclipse, RedHat-specific extensions in Rhiot



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Thank you!

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