QuasiOS

Case Story
for
DM 565 Innovation part

Jørn Guldberg, Co-founder and CEO of QuasiOS
7. November 2022

Who am I?

QuasiOS

Jørn guldberg

- Co-Founder and CEO of QuasiOS
- Master's degree in computer science, IMADA/SDU 2016-2021
- Former security analyst at Dubex as studentjob
- Former retail sales assistants at Shell and Statoil

QuasiOS

SYSTEM SOFTWARE AS IT SHOULD BE.

// SECURE //

// MODULAR //

// DELIBERATE //

New operating system

QuasiOS

Our great vision:
Improve modern software and develop a new Operating System that competes with Microsoft, Apple, Linux and Google

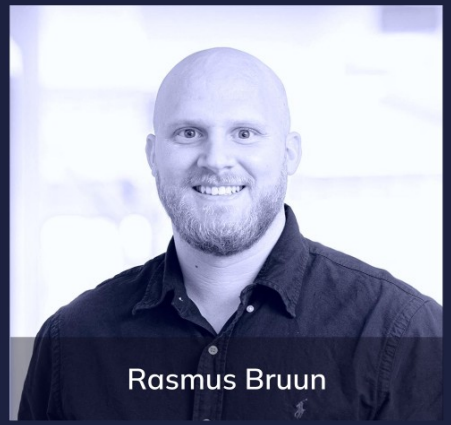
Who are we?

QuasiOS

Co-founder og CEO

Co-founder and developer

Co-founder and developer



Sales and outreach. Project leader in fireprotection systems

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Where did it all start?

Study as playground

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”Team Sing” at BA-Project

- Innovation course
- 15 ECTS Industry project with Universal Robots

Study as playground

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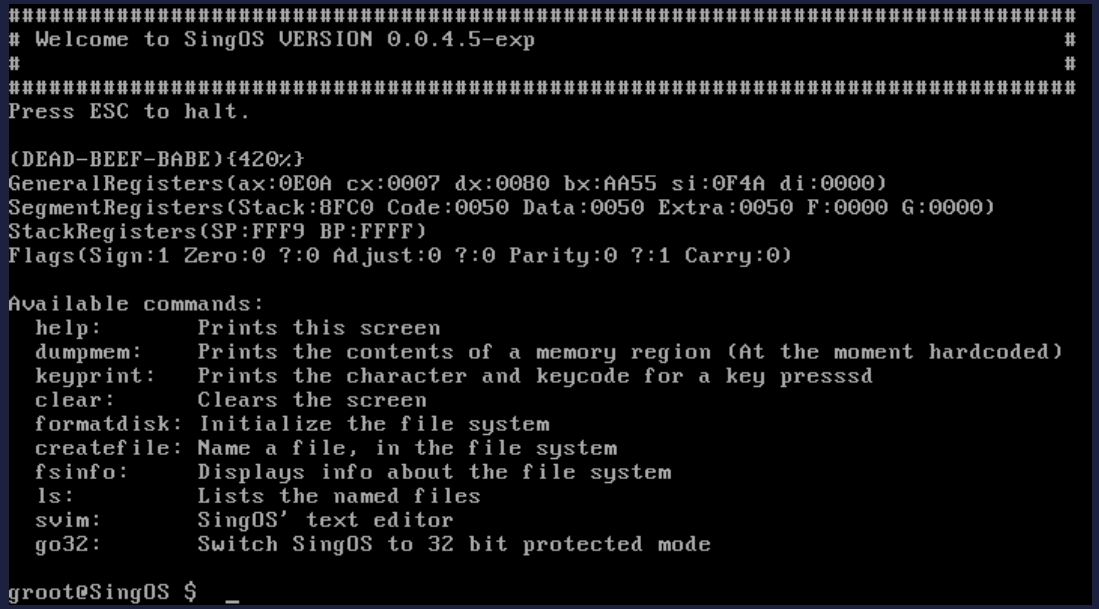
- Innovation course
  - We used our hobby project SingOS as case



Industry project with Universal Robots

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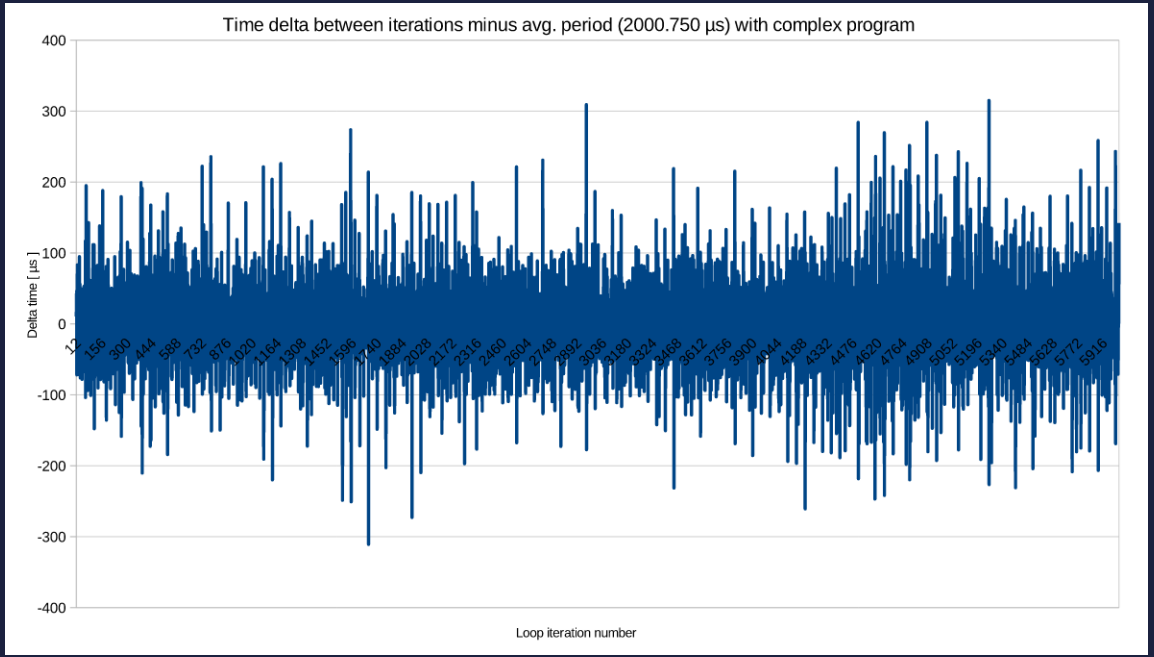
- Real time analysis inside the OS-kernel
  - Hint about that we can make a diffrence in the ”real world”



Study as playground

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Getting serious

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- SDU Rio / SDU Entrepreneurship Labs
  - Learning about business models etc.
  - Mentoring
  - Community
  - Pointers / Network
  - Focus on a realistic business case

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cbcp

- Capability-Based command protocol

CBCP-projektet was funded by
Cyber hubben and IMADA/SDU with
Universal Robots as industrialpartner

cyber hub

SDU
DEPARTMENT OF MATHEMATICS
AND COMPUTER SCIENCE

CBCP in use

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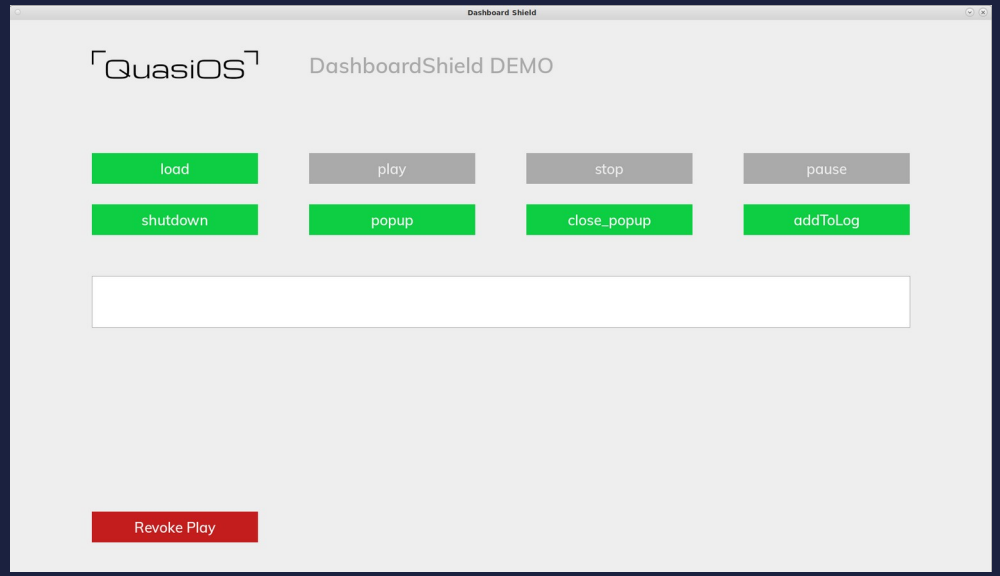
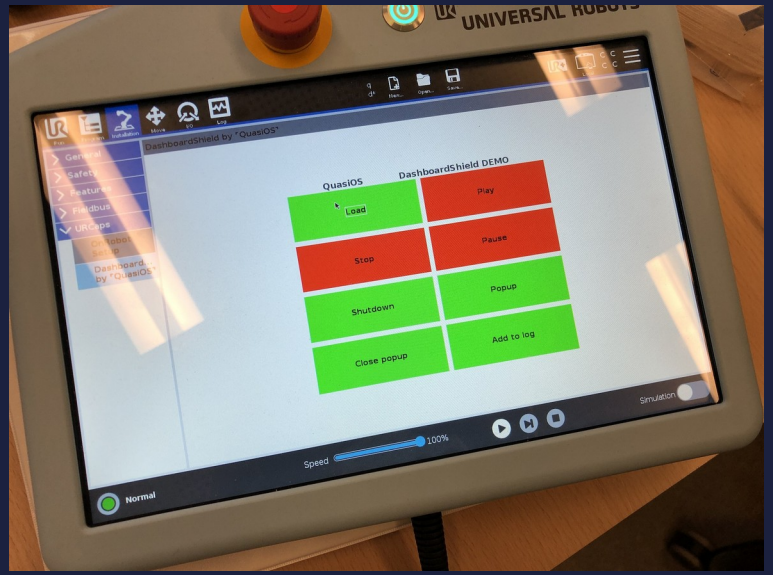
DashboardShield for Universal Robots robot





CBCP in use

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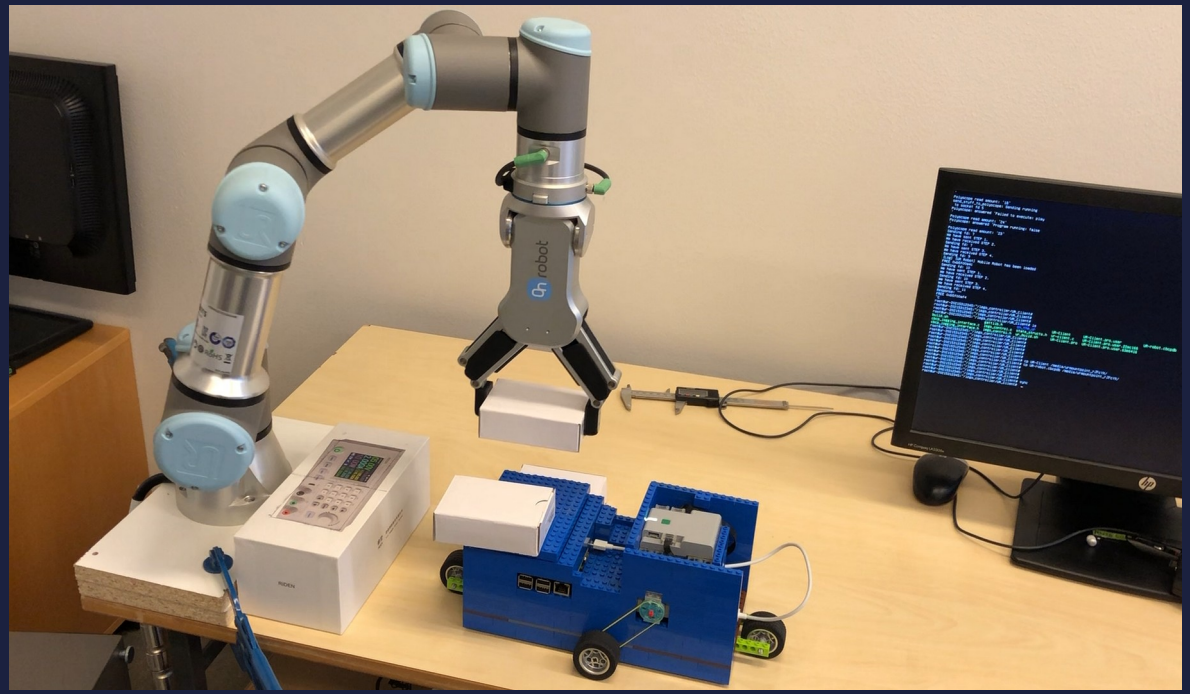
Autonomous system where we let the robots send commands to eachother in a secure way.



Always have next step

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- Innofouder funding
  - Rejcted first time (So was the CyberBoost project)
  - Accepted second time – Funding for one year

Innovationsfonden

Pivot – Robots vs QLog

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Our first product

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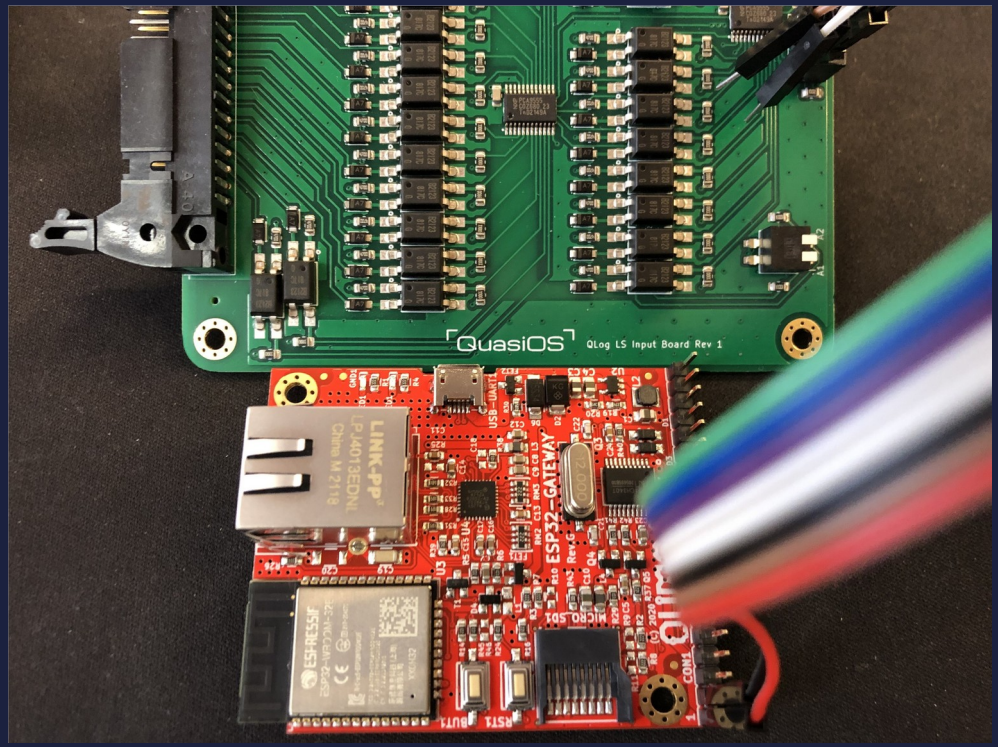
IoT solution for monitoring industrial equipment

- Classic IoT that collect data and present it for the user
- Uses our CBCP protocol to collect data securely



SDU Makerspace

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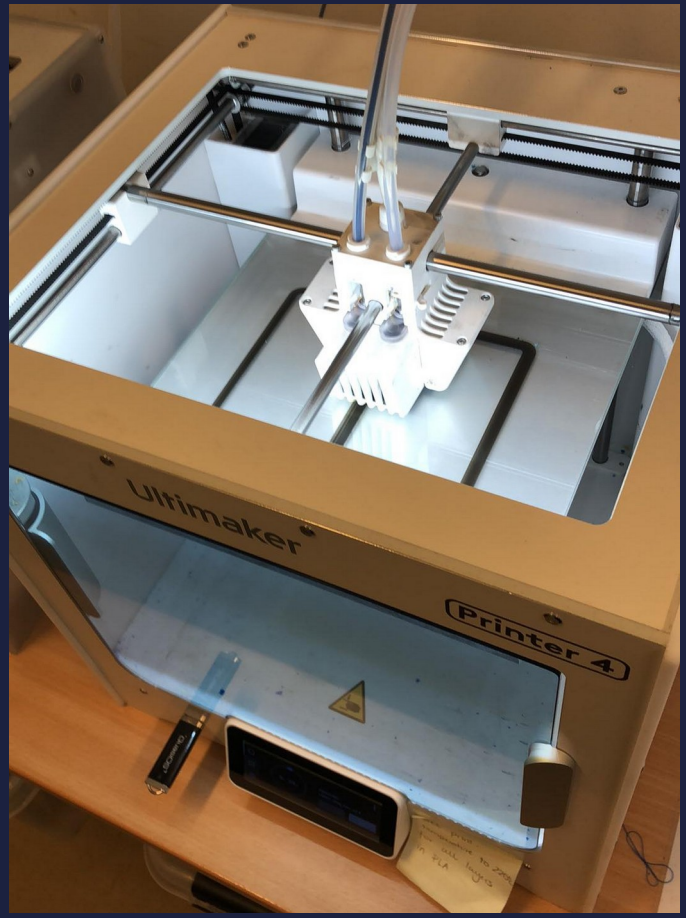

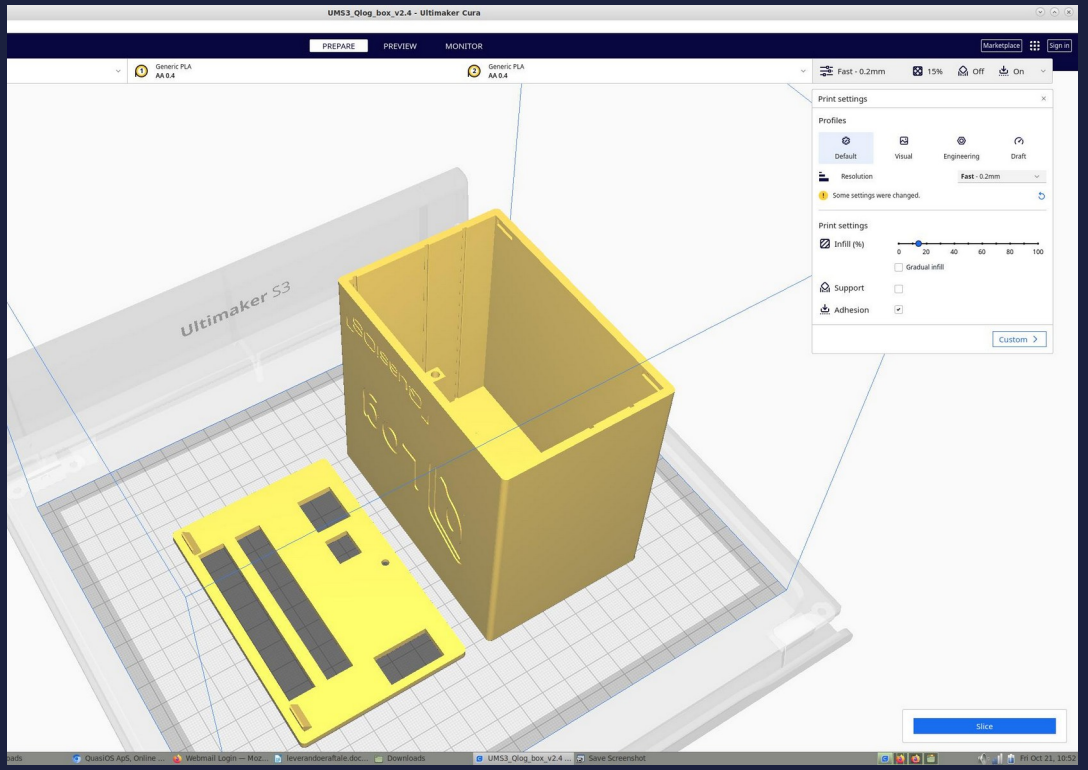

Prototyping

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The QLog System

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The QLog System

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Development setup for testing our QLog system

The QLog System

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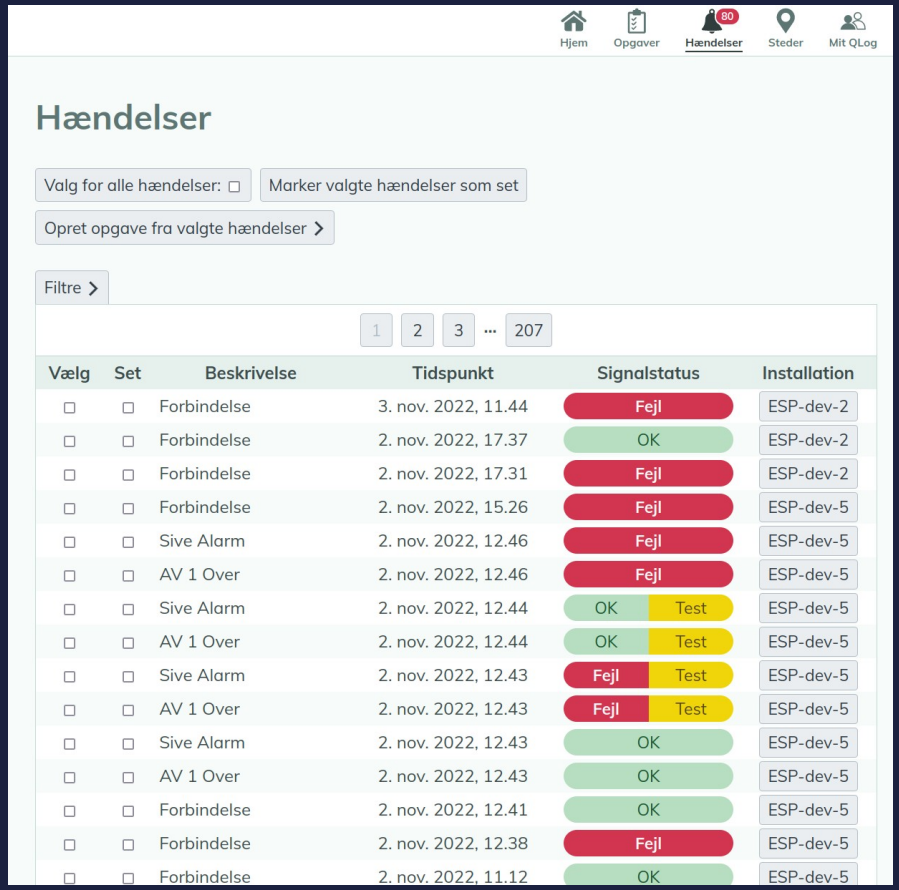

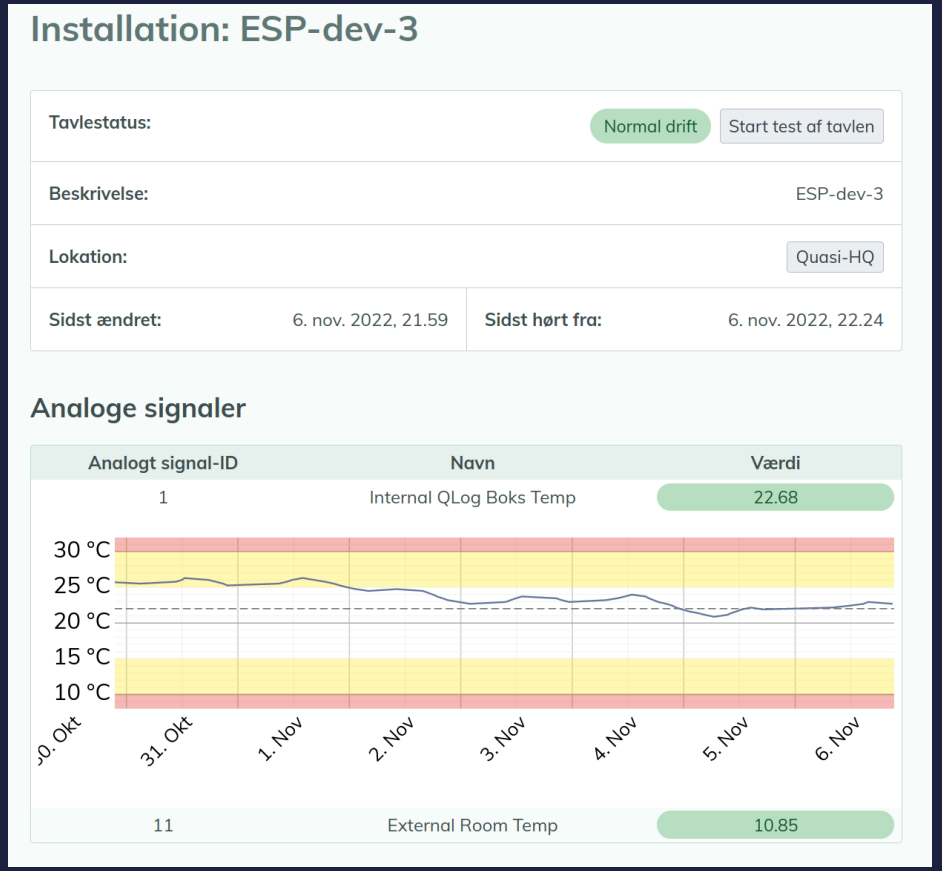

Next step now

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- Test and Sales
- Product certification
- Innobooster

OBH Rådgivende Ingeniører

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Thanks
Any questions?

7. november 2022

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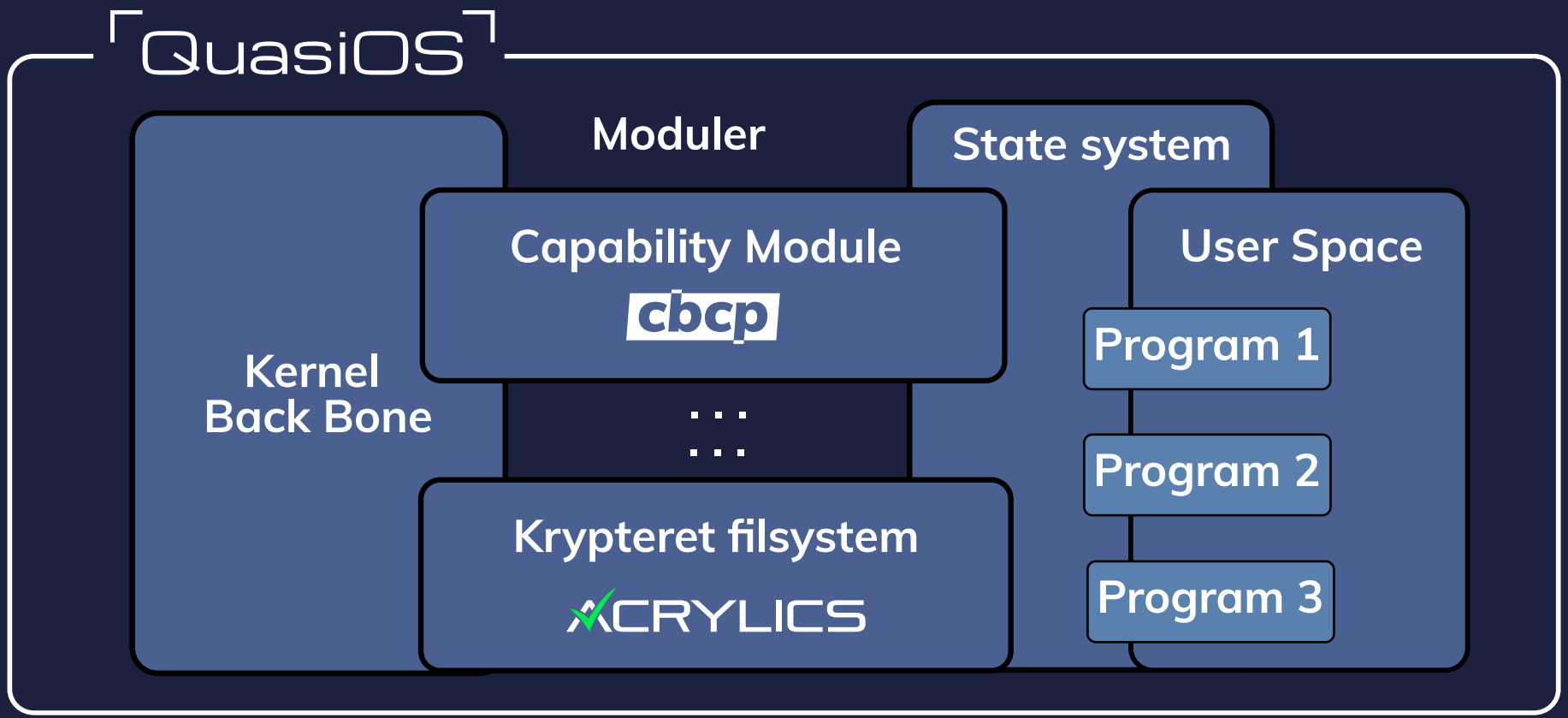
QuasiOS
Moduler
State system
Capability Module
cbcp
User Space
Kernel
Back Bone
Program 1
Program 2
Krypteret filsystem
ACRYLICS
Program 3

Demo capabilties

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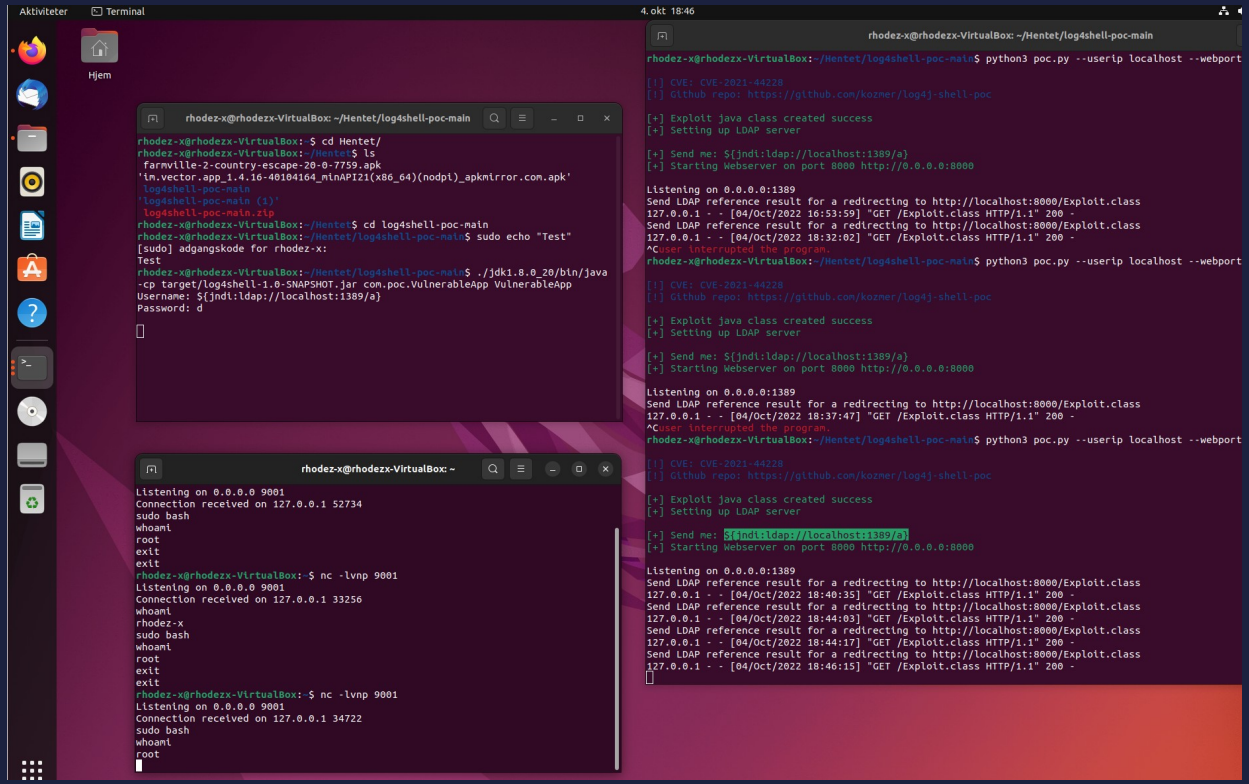
Simple Log4J exploit example



ACRYLICS - module

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