



Automated IoT Penetration Testing Tool



ODTÜ
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PENIOT



FOR MORE SECURE
AND RELIABLE IOT



AUTOMATED PENETRATION
TESTING WITH SEVERAL
SECURITY ATTACKS

PROBLEM

As Internet of Things (IoT) takes over the world, more devices, more protocols, more device vendors enter our world, but ...

- Many IoT devices have serious security flaws.
- Huge variety of IoT devices and protocols means doing IoT security tests manually would be very time consuming.



WHAT DOES PENIOT PROVIDE?

- Novel, it is the first serious automated testing tool for IoT devices
- Security tests for four common IoT protocols by default (AMQP, Bluetooth Low Energy, CoAP, MQTT)
- Extendable, users can integrate new attacks or protocols
- Report generation facility
- An easy to use graphical user interface



SOLUTION

- An automated extensible penetration testing tool for IoT devices
- Targeting IoT devices on their internet connectivity with different security attacks
- Creating fast end-to-end product testing environment and exposing security breach scenarios.



Berat Cankar

Bilgehan Bingöl

Doğukan Çavdaroğlu

Ebru Çelebi

Supervisor: Pelin Angın