

Sprint Retrospective Document

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Project acronym: PENIOT

Members: Berat Cankar
Bilgehan Bingöl
Doğukan Çavdaroğlu
Ebru Çelebi

Supervisor: Dr. Pelin Angın

Sprint 4 summary

Item ID (from the previous retrospect ive doc)	Workpackage ID (from the Kick-off doc)	Status	Group's comments
1	4	In progress	In this sprint, we have tested the sniffer which was implemented before. It scans the given interface and gives the obtained entry information with respect to observations. Also, we created peripheral class for those entries such that we can get their protocol and network related information. But, they need improvements as we continue to implement new features since we were not able to test the implemented features (due to lack of hardware). After getting necessary hardware, we will create a module to sniff BLE communication.
2	4	In progress	We wrote a very simple BLE advertiser that continuously advertises itself to nearby listeners. It serves as some sort of honeypot for the listeners that connect to nearby devices without checking their credentials.

***Important Notes (about Sprint 4):** While preparing our tool to demo, we have figured out some improvements and we have added them in this sprint (even if we wrote as “Completed” in the previous retrospective document). We have added generic sniffer, updated our packet parser and added replay attack to MQTT protocol at the beginning of Sprint 4, so we could not totally focus on the leftover tasks.

Sprint 5 plan

Item ID	Workpackage ID (from the Kick-off doc)	Description	Status
1	4	We planned to complete sniffing of target device and packet parser for BLE protocol to get necessary information.	Left over from Sprint 4
2	4	Although we did not decide particular attacks to perform, we planned to implement two or three attacks for BLE.	Left over from Sprint 4
3	7	Designing graphical user interface for previously implemented part of the project (Connecting MQTT)	New

Overall progress

	Sprint 1	Sprint 2	Sprint 3	Sprint 4	Sprint 5
MF1	0	15	15	15	
MF2	0	0	0	0	
MF3	0	0	100	100	
MF4	0	5	100	100	
MF5	0	0	0	0	

MF6	0	0	0	0	
MF7	0	0	0	10	
MF8	0	5	5	8	
MF9	0	10	10	10	
MF10	0	0	0	0	
MF11	0	0	0	0	