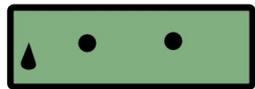


mithören  
type, we'll listen



mithören

# Intros

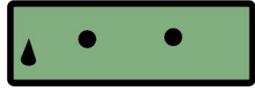
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Colin Buckles



Michael Wolf



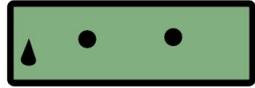
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# Problem Space

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- Wireless technologies are inherently insecure
- Wireless keyboard vendors tend to value profit over security
- Dozens of exploits exist in the wild



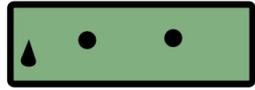


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# What Is Mithören?

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- Mithören is a simple-to-use, extensible platform for wireless peripheral packet collection and interpretation
- We want to make keyboard security analysis available to all penetration testers and researchers



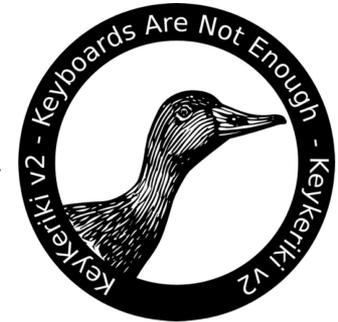
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# Our Solution

This one is done!



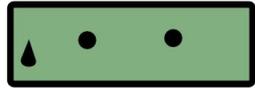
SAMY KAMKAR'S  
KEYSWEEPER



GNU Radio  
the gnu software radio

# Use Case

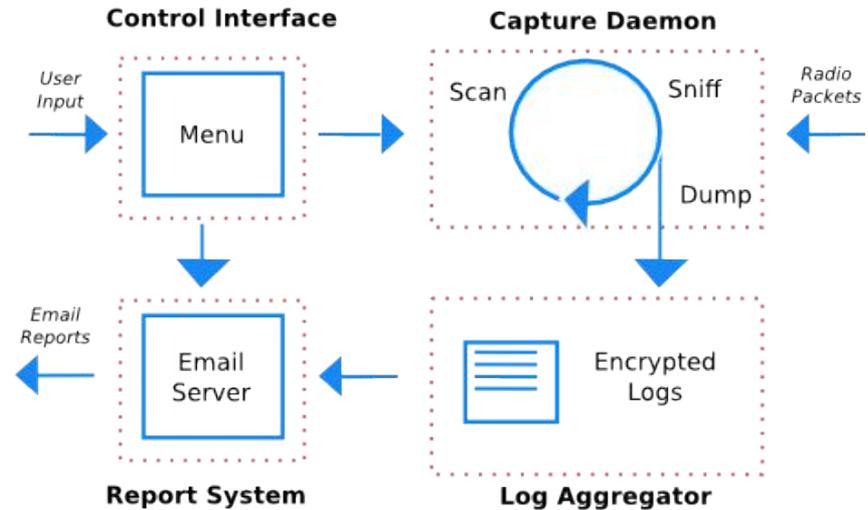


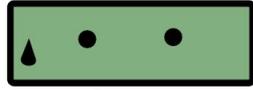


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# Architecture

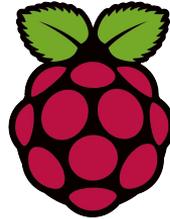
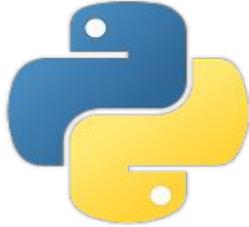
1. Daemon Process
  - Sniffs airwaves
  - Communicates with database
2. Control Interface
  - Monitor process
  - Configure process
  - Send email





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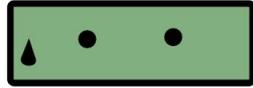
# Tech Stack



# Demo

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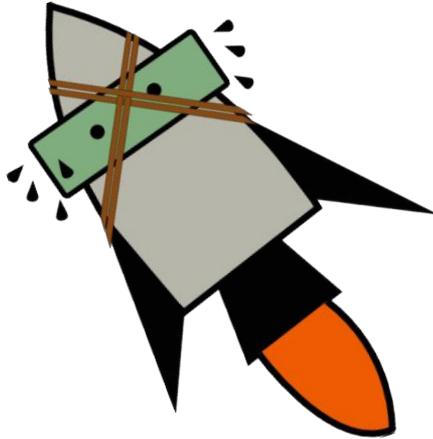
OwO



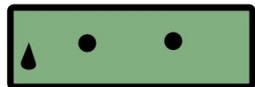
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## Next Steps

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- PGP Encryption
- Additional modules
- Flesh-out device identification
- Integration into existing security tools
- Automated testing
- Security developer buy-in
- Get our email server out of spam filters

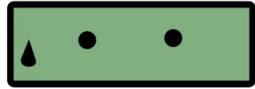


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# Thanks

- 
- Bo Vyhovanyuk, Jim Scott
  - Bastille Research, Marc Newlin, Max Moser, Philipp Schrödel, fragil3,
  - Rohs Street Cafe, pilotredsun, AKIKO, Matthew Corbett
  - Richard Stallman

[github.com/wolfmd/mith-ren](https://github.com/wolfmd/mith-ren)



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# Conclusion

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- Security-first manufacturing is vital to the defense of enterprises
- Consumer awareness = oversight
- Proactive testing with Mithören closes another gap in enterprise security

[github.com/wolfmd/mith-ren](https://github.com/wolfmd/mith-ren)

**Questions?**