Spyware on IoT

Infection Methods

- Physical debug ports (JTAG, UART)
- UDP/TCP network ports
- Software security vulnerabilities
- Software logic flaws



First Mirai Variant

- Physical debug ports (JTAG, UART)
- UDP/TCP network ports
- Software security vulnerabilities
- Software logic flaws

Specifically port 23 and 2323



Wyze Cam

- Physical debug ports (JTAG, UART)
- UDP/TCP network ports
- Software security vulnerabilities
- Software logic flaws



CIA Triad

- Wyze Cam does not provide Integrity
 - The software logic for updating new firmware does not check for firmware's authenticity, allowing an adversary to upload their own firmware onto Wyze



Custom Wyze Firmware

- Physical debug ports (JTAG, UART)
- UDP/TCP network ports
- Software security vulnerabilities
- Software logic flaws

We open up a new infection method on Wyze through logic flaw in its firmware update



Steal Images

 A spyware can be installed on Wyze over-the-air from the opened port to steal camera's images

