Software Symbiotes
A Brief History of Symbiote Defense

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Recent advances in offensive technologies targeting a range of IoT devices have shown that the exploitation of these devices is not terribly difficult. In his early work in the IDS Lab at Columbia, Professor Stolfo and his team set out to defend embedded devices with an entirely new defensive capability - the Software Symbiote, a host-based defensive technology that automatically injects intrusion detection functionality within the firmware of any device. In this talk, Professor Stolfo will provide a brief history of his work on Symbiote technology, and the transition from academic research to practical, wide-spread use in common products.