ISC 2019 第七届互联网安全大会

严峻挑战下网络安全技术的应用和发展

惠特菲尔德·迪菲 2015年图灵奖得主

小鹅助理



扫码添加小鹅助理,与数万科技圈人士 分享重量级活动PPT、干货培训课程、高端会议免费 门票







Development and Application of Cybersecurity Technology in a Challenging Context

Whitfield Diffie

Chief Scientist Cryptic Labs



Origins of Cybersecurity

- Communication Security
- Security of shared computers
- Signals Intelligence
- Espionage and covert action
- Electronic Warfare
- Economic warfare



Cybersecurity and cyberwarfare unify most of the hostile interstate actions that go on in "peacetime."



Signals Intelligence (SIGINT)

All intelligence derived from the study of radio transmissions and other communications

(ASA September 1946)



Rise of SIGINT World War | ==> RADIO

- Interception
- Direction Finding
- Traffic Analysis
- Cryptanalysis

The rise of intelligence is the rise of Sigint David Kahn





The Essence of Security

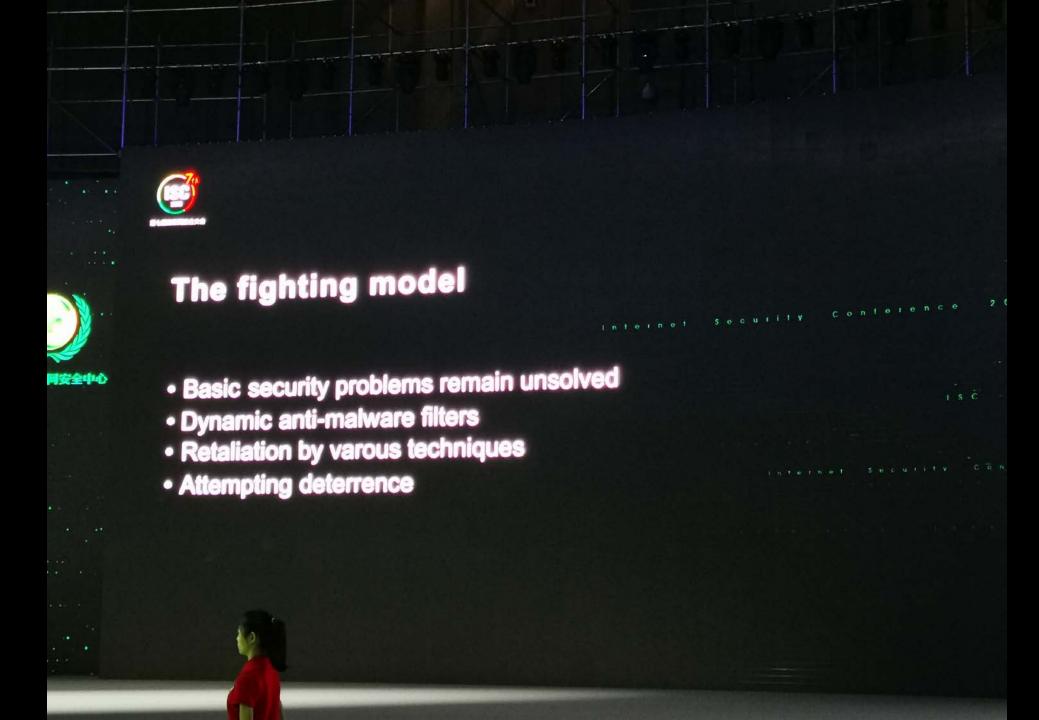
- Recognition of those you know
- Introduction to those you don't know
- Provable recognition (signature)
- Private conversation

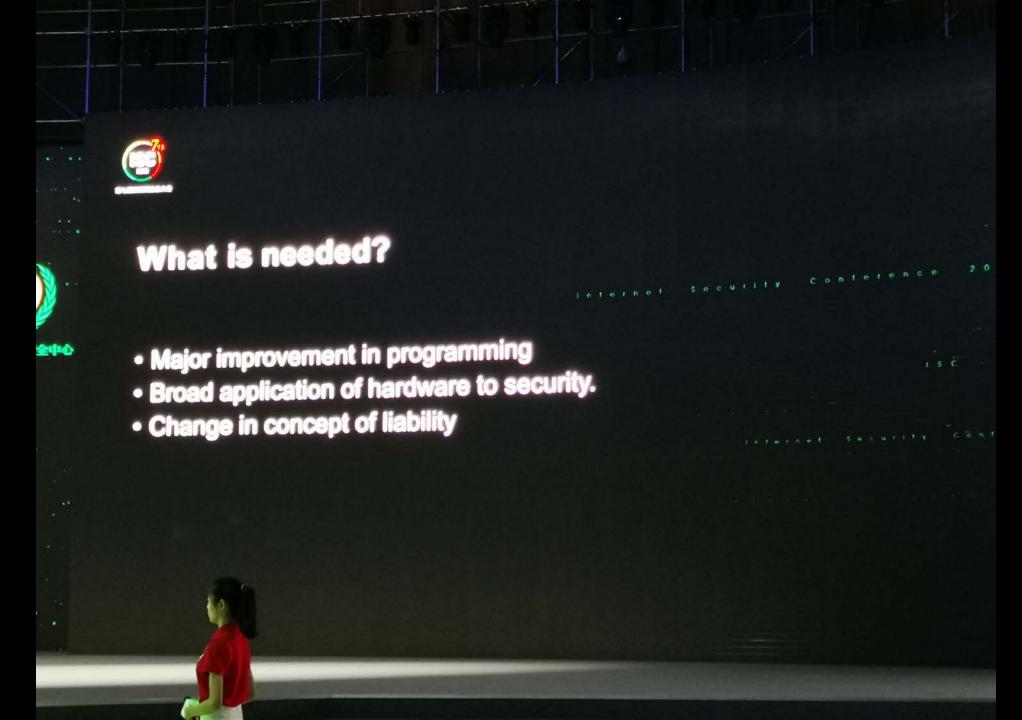
Protects your control of your system.



What Drives Cybersecurity?

Like every other field of engineering, cybersecurity responds to the requirements by using the available tools, driven by the imaginations of its practitioners.







Challenging Environment?

The "powers that be" — nations and, more important, companies — say they want cybersecurity but really the don't.

Neither nations nor companies want computer users to have the freedom they would enjoy if computers really were secure.

小鹅助理



谢谢!

扫码添加小鹅助理,与数万科技圈人士 分享重量级活动PPT、干货培训课程、高端会议免费门票