

Risk Management Analysis of Security

Thierry Sans

Can we achieve perfect security?



Let's play a game

○ Threat

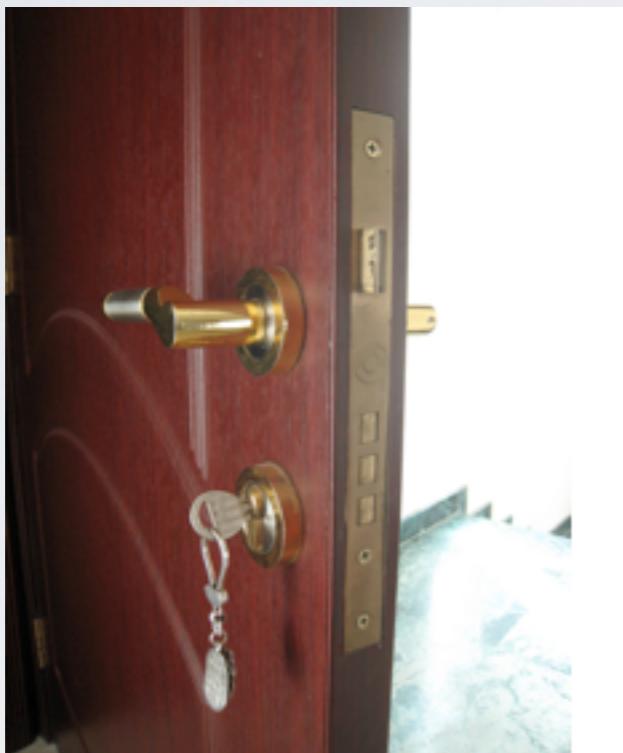
- Someone can break into my house to steal or destroy my stuff

○ Attacks and counter-measures

- I have a basic protection, but worse things can happen!
Help me finding the best security solution

My protections so far

Wooden door
with 3 points lock



On the balcony (2nd floor)
windows with single point lock

What do I have in my house?



\$20

What did we learn from the game?

- ✓ You never prevent a threat, you **lower the risk**
- ✓ Performing an attack is **more or less difficult** the assets to protect versus the attacker's efforts
- ✓ Deploying a counter-measure has **a cost** cost of recovering versus cost of deployment

Do you own risk analysis

How important is your data

- on your laptop?
- on your phone?
- on internet?

What if someone

- steals them?
- distributes them?
- deletes them?

What if the system is down or not working well?

Triaging Risk Exposure

Risk Exposure = probability × impact



Let's do the risk assessment of your digital self

- As a UofT student
- As the founder of a startup
- As a public figure
- As a political leader