

# Risk Management Analysis of Security

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Can we achieve perfect security?



# Let's play a game

## ○ Threat

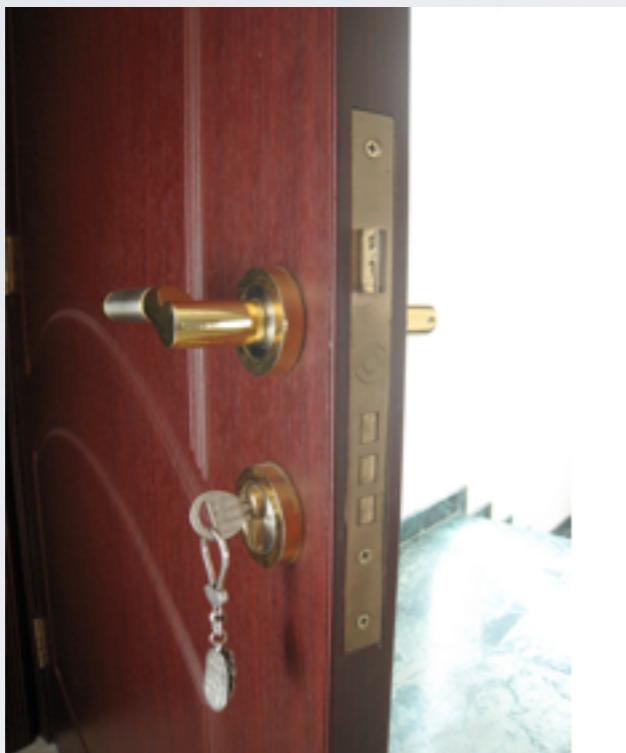
- Someone can break into my house to steal or destroy my stuff

## ○ 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