### **OWASP Threat Dragon**

Presentation to Bristol (UK) Chapter



#### Who am I?

- C/C++ developer for 25 years
- Security engineer for 11 years

#### Active in OWASP:

- Leader + contributor to OWASP Threat Dragon project
- Co-leader + contributor for OWASP Developer Guide project
- Co-Leader of Bristol (UK) OWASP Chapter

### Did you say Threat Dragon?

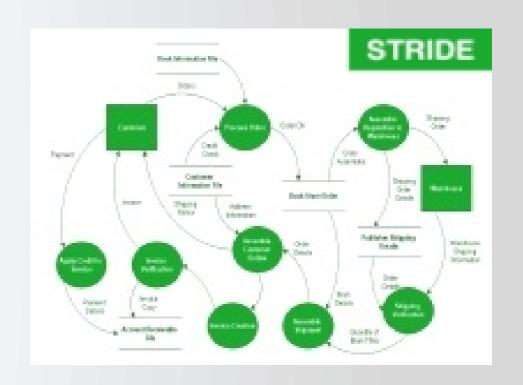
- OWASP Lab Project
- Tactical threat modeling
- Stores threats
- Data flow diagrams
- Always free to download, free to use



### What is Threat Modeling?

- Just 4 simple questions
- What are we considering?
- What can go wrong?
- What to do about that?
- How well did it turn out?

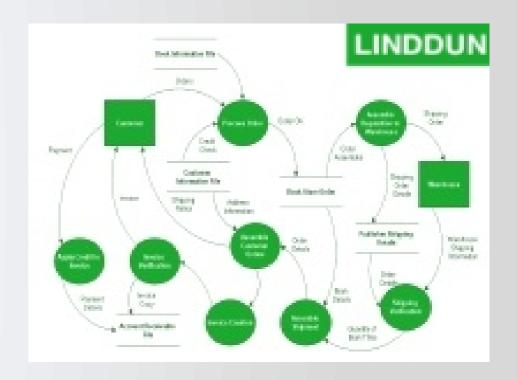
(Paraphrasing Shostack's Four Questions)



### Why do Threat Modeling?

- Well, because we are expected to do it
- It is as useful if you make it
- It can be fun!

It may be the only time when a team can sit back and ask: 'If I was a bad person, what is the worst I can do?"



### Is Threat Modeling painful?

- It can be if you get it wrong
- Tactical threat modeling
- Make it bite size
- Do it early; and its never too late
- No security heroes



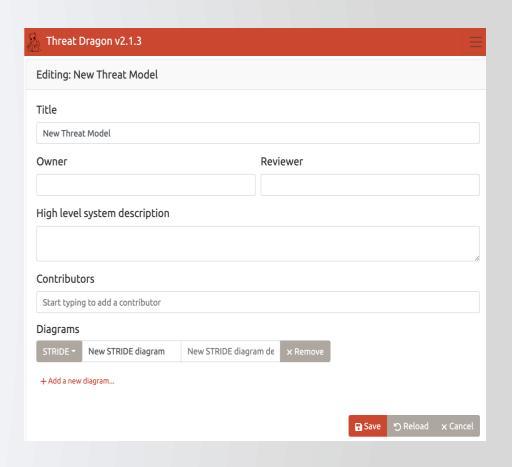
### Where do I get Threat Dragon?

- Download the desktop application for Linux/MacOS/Windows
- Or run your own web application
- Or deploy a docker container
- Or access the demo site: www.threatdragon.com



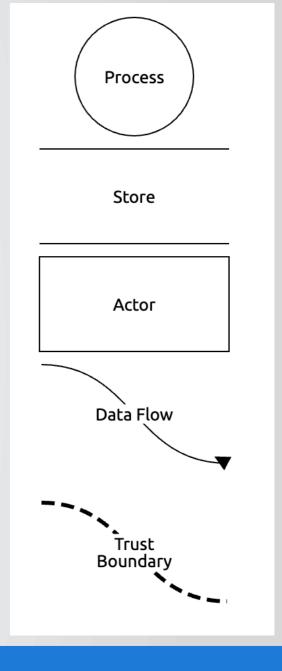
### So where do I start?

- Provide high level information
- Add diagrams:
  - STRIDE
  - LINDDUN
  - CIA, PLOT4ai, DIE



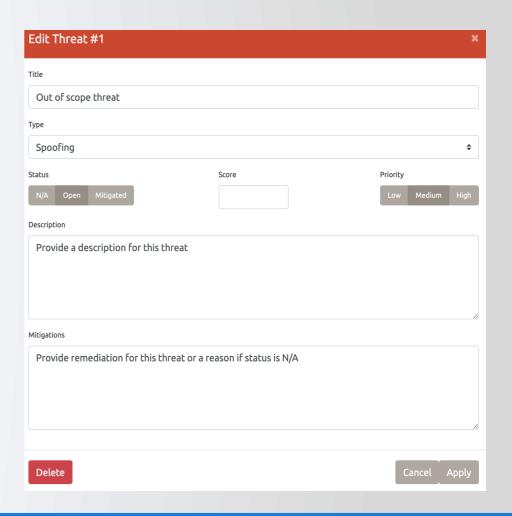
## Did you say diagrams?

- Data flow diagram components:
  - Processes
  - Actors
  - Stores / Assets
  - Trust boundaries
- Data flow between components



#### What about threats?

- The reason for threat modeling
- Stores threats within the model
- Type: according to methodology
- Status: Open / Mitigated / NA
- Priority: High / Medium / Low
- Score: any numeric value
- Mitigation or Remediation?
- TAME the threats



# Did you say STRIDE?

	Spoofing	Tampering	Repudiation	Information disclosure	Denial of service	Elevation of privileges
Process	X	X	X	X	X	X
Store		X	X	X	X	
Actor	X		X			
Data flow		X		X	X	

# Did you say LINDDUN?

	Linkability	Identifiability	Non- repudiation	Detectability	Disclosure of information	Unawareness	Non- compliance
Process	X	X	X	X	X		X
Store	X	X	X	X	X		X
Actor	X	X				X	
Data flow	X	X	X	X	X		X

### **Questions on Threat Dragon?**

- Making Threat Modeling less threatening
- Always free to download, free to use
- Contributions welcomed!



### Time for a demo?



