



THREAT MODELING | LAB

Continuous Security

Leverage incremental threat modeling

November 9th | 11:00am-12:30pm ET



Irene Michlin

Application Security Lead, Neo4j



Agenda

11:00 Welcome and intro

11:05 Presentation (15 mins)

11:20 Exercise 1: Breakout room (30 mins)

11:50 Readout of exercise 1 (10 mins)

12:00 Break (10 mins)

12:10 Exercise 2: Breakout room (30 mins)

12:40 Readout of exercise 2 (10 mins)

12:50 Conclusion

12:55 Questions



Ground Rules

- **Be present:** Close off emails, Slack, other unnecessary windows to keep distractions at bay :)
- **Turn on your video if possible (except during individual exercise):** Help yourself and others stay engaged!
- **Be back on time:** So we can maximize the two hours together and finish on time



Learning Objectives

By the end of this workshop, you'll:

- Learn to identify manageable chunks for your threat modelling session

Assumptions:

- You have some idea of what DFD and STRIDE are



Refresher

- 1. What are we building?**

Decompose architecture using DFDs

- 2. What can go wrong?**

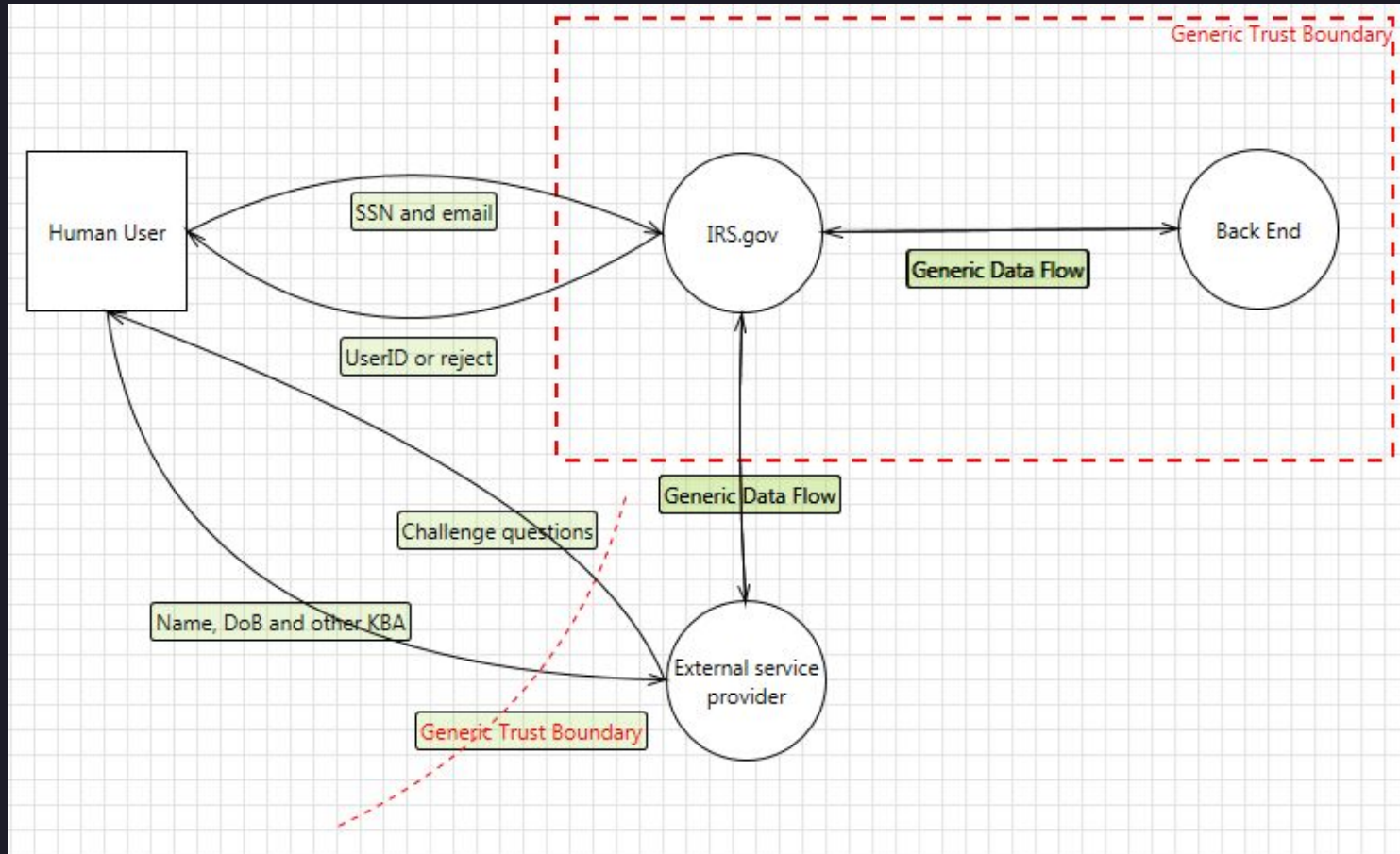
Search for threats using STRIDE

- 3. What are we going to do about that?**

- 4. Have we done a good enough job?**

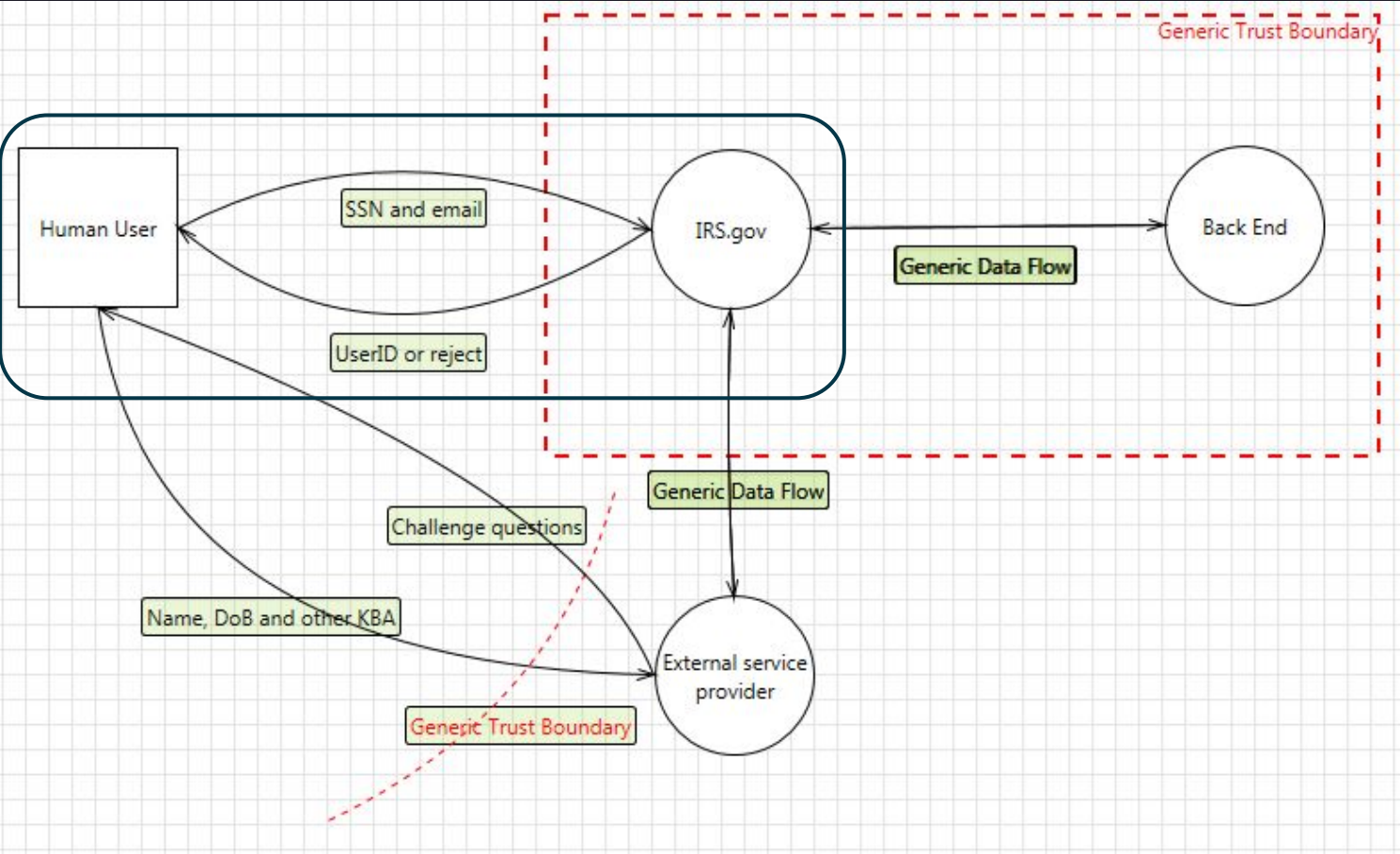


Data Flow Diagrams





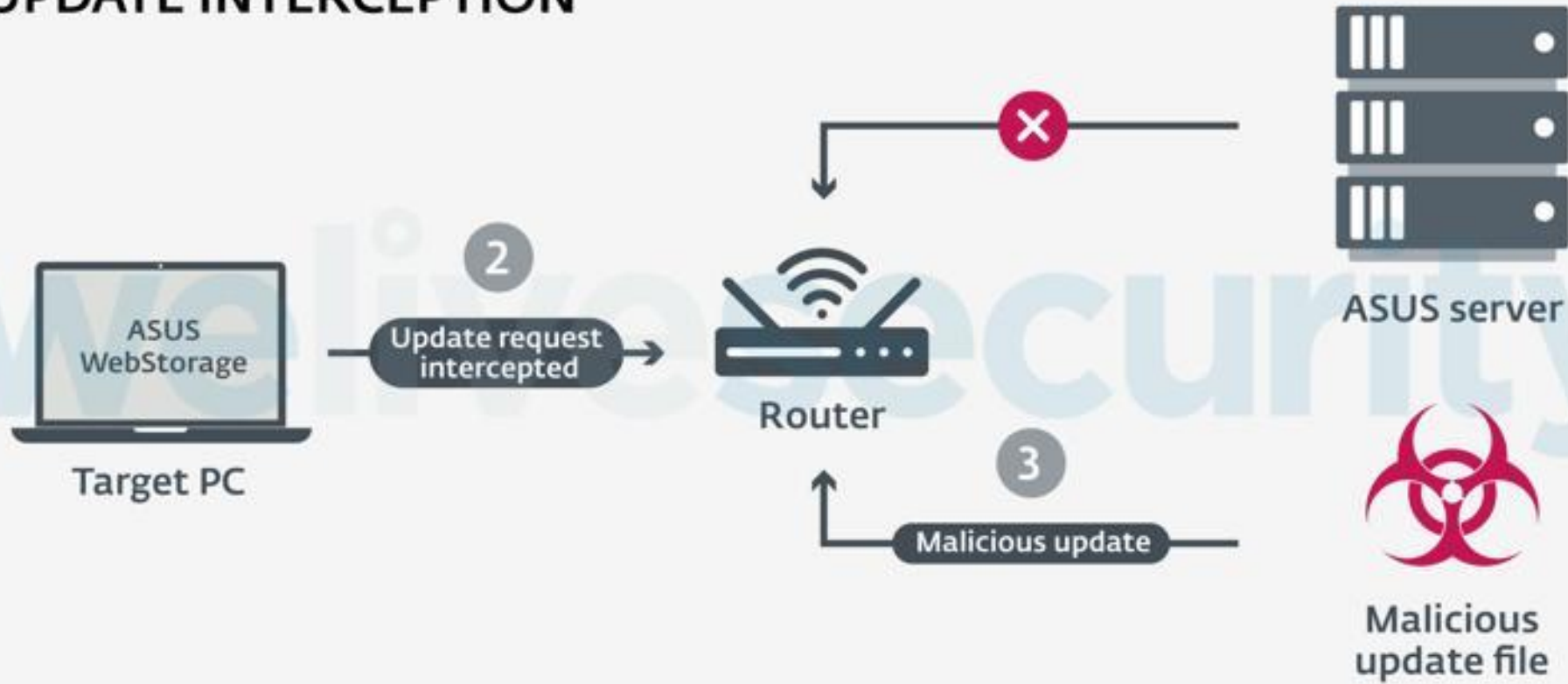
Spoofer





Tampering

UPDATE INTERCEPTION





Exercise time!

https://miro.com/welcomeonboard/RmVUME9tY0IxWTJZWURrN0FrUm9xN1d5ZnY0aIBhMHNLNnIPMTVmM0VRSnVHUTdoQVIPeDZxUXFIOWNkTG1pSXwzNDU4NzY0NTU2MDMwMzMzMDE0fDI=?share_link_id=811788684967



Conclusion

- 1. Can't get away with doing only incremental, but it's a great entry point**

Fits with story-based development

- 2. Incremental threat modelling can fit any time-box**

Tool 1: New and changed components and data flows, everything else is legacy blob

Tool 2: We are not making it (legacy blob) worse

Tool 3: Not our problem right now

- 3. You can build a model of the whole system in parallel, or wait for several cycles**

- 4. Don't wait for the start of the new perfect project**

Useful links

<http://michenriksen.com/blog/drawio-for-threat-modeling/>



Wrap-Up

Q&A

