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Threat Modelinย

Common threat The five questions Exercise: Working with actors

Digital threat

Physical threats

Identifying the assets

Security indicators: be aware of your environment

We identified the threat, now what? protection

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Identifying the assets

Security indicators: be aware of your environment

- Threat Modeling
 - Common threats
 - The five questions
 - Exercise: Working with actors
- 2 Digital threats
- 3 Physical threats
- 4 Identifying the assets
- 5 Security indicators: be aware of your environment
- 6 We identified the threat, now what? protection plan
 - How does a protection plan look like
 - The support network
- Do I really need to keep this?
- 8 For more information:

Basics

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Threat Modeling

Security is not about using tools, is about understanding the thread and how to counter it.

Digital threat

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We identified the threat, now what? protection We have to **learn** how to recognize digital threat

Personal threats vs group threats

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We identifie the threat, now what? protection Groups have specific threats

What does information mean? - WOPS

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Identifying the assets

Security indicators: be aware of your environment

- Work related: documents, pictures, videos, databases...
- Operational information: SMS, phone numbers, meeting minutes...
- Personal information: anything that identifies us as individuals and as participants on a collective
- Smart data: meta-data generated from our devices, our communications, internet search, social networks...

Common threats

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Identifying the

Identifying the assets

Security indicators: be aware of your environment

- Theft
- Lost
- Inspection
- Destruction
- Sharing/Disclosure
- Surveillance/Monitoring
- Targeted malware

The five questions

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Security indicators: b aware of you environment

- What do you want to protect?
- Who do you want to protect it from?
- 4 How likely is that you will have to protect it?
- How bad are the consequences of failing?
- 6 How many effort do you want to spend to protect it?

What do you want to protect?

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Physical threats

Identifying t assets

Security indicators: be aware of your environment

We identified the threat, now what? protection

List the data you want to protect

Who do you want to protect it from?

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We identified the threat, now what? protection

Who may want this data (government, companies, individuals...)

What is it going to do with your data

How likely is that you will have to protect it?

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We identifie the threat, now what? protection How much effort will invest for getting it?

Threat vs Risk

smoke.

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We identified the threat, now what? protection Threat: a bad thing that can happen Risk: how likely is that to happen The threat is dying from cancer, the risk is greater if you

Actor identification - Description

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We identified the threat, now what? protection Every day we interact with many person Visualizing these actors will help making us aware of their presence

We have to know them so we can set an appropriate acceptance, deterrence or protection strategy.

Actor identification - Exercise description

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Identifying the

Security indicators: b

- Create small groups
- Brainstorm all the actors you interact with
- Oivide the actors on three groups: Direct, Indirect, Potential

Actor identification - Exercise notes

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Security indicators: baware of you

We identified the threat, now what? protection plan

What is an actor?

 An actor can be any individual, group of individuals, organization, company...

Think also about the hidden actors you interact with

• City council, ISP, app/device makers...

Actor identification - Exercise notes II

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We identified the threat, now what? protection

World is big

• Think about local, regional, national and international actors when needed.

An interaction:

 Working together, sharing information, opposition, hangout together...

Actor mapping - Description

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Security indicators: be aware of you environment

We identified the threat, now what? protection Actors interact with each other

Actor mapping - Exercise description

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We identified the threat, now what? protection

- Place the actors on the board with you on the center
- Map the relation between the different actors following the legend
- Identify the weight of each actor

Tip: You can make short statements about the relations

Actor mapping - Relation legend

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Security indicators: be aware of your environment

- Close: Positive and regular relation (straight line)
- Alliances: Coordinate their activities (double line)
- Conflict: Antagonistic relationship (joggled line)
- Violent conflict: Aggression between both parties(double joggled line)
- Compulsion: The actor A has influence over the actor B (an arrow)
- Interdependent: they are dependent (double arrow)
- Weak or unknown: Hard to identify

How can I be attacked?

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Security indicators: be aware of you environment

- Phishing
- Unsecured wireless
- Removable media
- Mobile devices
- Malware
- Spyware

Spyware

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We identifie the threat, now what? protection

Malicious software that tracks your activity

- What do you do with the computer: emails you send, site you visit, documents write...
- Interact with your hardware: record with the camera/microphone, see the keys you press...
- Track where you go and which who you are (governments/big organizations don't need special software for this)

How to protect yourself

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Identifying the

Identifying the assets

Security indicators: b aware of you environment

- Keep your software updated
- Use encryption
- Privilege open source and free software
- Free = Pay with your privacy
- Changes on terms of use = Review your privacy settings
- Two factor authentication

Risk is not just digital

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Security indicators: b aware of you

We identified the threat, now what? protection Would you give me your house keys? Would you let the postman/women enter to your home?



Communications

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Security indicators: b aware of you

We identified the threat, now what? protection How do you communicate with others? There is a single channel? How do you protect your contacts?

Storage

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Security indicators: b aware of you environment

We identified the threat, now what? protection How do you store information ? Printed, USB Keys, Hard drives, DVDs...

Protecting your office

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Physical threats

Identifying th

Security indicators: b aware of you environment

We identified the threat, now what? protection Hide network cables

Don't create open networks and change the passwords?

Classify the information

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Physical

Identifying the assets

Security indicators: be aware of you environment

We identified the threat, now what? protection List the information you have:

- Does it travel?
- Where is stored
- How often it should be consulted
- By how many people
- Is the content sensitive
- How long should be kept

Sensitive information

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Identifying the assets

Security indicators: b aware of you environment

- Public: everyone will know about it
- Confidential: only the people of the organization should know about it
- Secret: only the people involved should know about it

What is a security indicator

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Identifying thassets

Security indicators: be aware of your environment

We identified the threat, now what? protection Anything situation that makes you aware about a change in security



How to obtain them

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Identifying the

Security indicators: be aware of your environment

- Talk with friends, similar groups...
- Follow the news
- Meet experts

What to do with it

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Security indicators: be aware of your environment

We identified the threat, now what? protection Share it! Spread the word and contrast with your colleagues

Tip: the baseline

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Identifying the

Security indicators: be aware of your environment

We identifie the threat, now what? protection How does your usual day look like? Would you notice if something changed?

What to look for? Digital security indicators

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Identifying the assets

Security indicators: be aware of your environment

- Weird thing on device start
- Erratic cursor
- Unusual or unattended emails, texts...
- Unusual person contact (also on Social networks)
- Something asking for too much information
- The battery runs out too fast

I'm not sure if it's an indicator

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Physical threats

Identifying that assets

Security indicators: be aware of your environment

We identified the threat, now what? protection Note it down and **share it** The 5 W : When? What? Where? Who? Why?

What to do when you detect a security indicator

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Security indicators: be aware of your environment

- Stop using that service / account
- Change your passwords asap, specially if email accounts

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Distant above

Physical

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We identified the threat, now what? protection plan

Everyone needs a plan

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Identifying the

Security indicators: be aware of your

We identified the threat, now what? protection plan TIP: Don't forget about your well-being

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District dissess

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We identified the threat, now what? protection plan

Prevention Emergency plan

Assist the refugees - Part I

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Identifying th

Security indicators: be aware of your environment

We identified the threat, now what? protection

Objective:

Assist refugees: feed them, give them collected clothing...

Threats:

- Harassment of arrest by the police
- Confiscation of the material
- Loss of data and compromise our contacts as a result

Prevention actions:

- Alert colleagues that won't be there
- List the possible aggressors and how to contact them
- Communicate with someone after the action once everything is finished
- If you get testimonies or someone tells you about a right vulneration get the information on a encrypted device
- Clear your messages, emails...
- Any live information will be shared via an encrypted messenger and only with people involved

Assist the refugees - Part II

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Identifying the assets

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We identified the threat, now what? protection plan

Response resources:

- Prepare emergency messages
- Memorize and write down your lawyers number

Emergency plan:

- Notify lawyers when someone is arrested
- Call allied organizations without disclosing sensitive information
- Don't talk to the police
- Encrypt the device before arrest if possible

Well being considerations:

- Eat before the action
- Rest



You are not alone

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Security indicators: b aware of you environment

We identified the threat, now what? protection The security starts when you feel safe with your colleagues Explain your security concerns to your colleagues Give them emergency contacts and tell them how would you like them to act on emergencies

Support network protocols

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Security indicators: be aware of you environment

We identified the threat, now what? protection If the involved person has specified a protocol follow it. Everyone is responsible of it's own security.

Don't disclose any information that could harm involved persons

Use secure communication channels

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Physica threats

Identifying the

Security indicators: be aware of your

We identified the threat, now what? protection Saving compromising information is dangerous



Can I delete it?

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Security indicators: b aware of you

We identified the threat, now what? protection There is no delete button on the internet On you device pressing the delete button won't delete it from the drive

So... what do I do?

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We identified the threat, now what? protection

- Clear your cache regularly
- Wipe your disk after deleting sensitive information

Tools: Deleting the cache

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We identified the threat, now what? protection

Deleting the cache:

Windows : CCleaner

• iPhone: Cache Cleaner, Battery Doctor...

Android:

Chrome: Clear cache by Benjamin Bojko

Firefox: Click and Clean

Tools: Wiping your files

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We identified the threat, now what? protection

Wiping your files:

Windows : Eraser

Linux: Shred (integrated with file browser)

MacOS: Shredder - Empty thrash securely

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Destroy sensitive information:

https://securityinabox.org/en/guide/destroy-sensitive-information/