

How to Kickstart Your Security Program

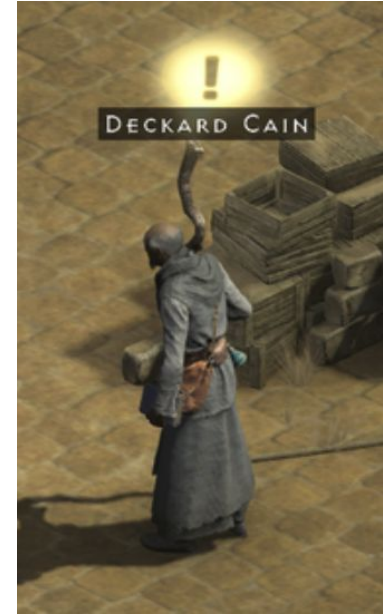
Jozsef Ottucsak - Hacktivity 2022

Who am I?

- **@fuzboxz** on Discord, Twitter, etc. if you have questions after the talk
- 8.5 years experience in security, 10+ years in tech overall
- From dev to pentest to security engineering to leading security programs
- OSCP, CCSKv4, eMAPT, eCPPT, ISO27k1 Lead Auditor...
- ex-LogMeIn (GoTo), ex-TrueMotion (CMT), ex-Proyet (TR Consult/4IG)

Stay Awhile And Listen

- Not a technical talk
- Expect sarcasm, bad humor & opinionated exaggerations
- First 90 days of taking over a security program
- Lessons learned of running security programs
- How not to be the most hated person at your job



Why are we talking about this?

- Starting a security program can be hard
- Lot of information but no one-size-fits-all model
- Lessons learned are usually shared behind closed doors
- Security often doesn't understand the business



Security Teams and Companies



What do we do as a security team?

- Monitor and protect company assets
- Create security policies and documentation
- Manage security events, incidents and breaches
- Evangelize security downstream and upstream
- Keep business risk on an acceptable level
- Support sales and growth ⚠️



Why are security people usually hired?

- Your predecessor left the company (here may be dragons 🚩)
- Company *suddenly* cares about the security of your data
- Risk became too big to handle without security controls
- Company needs compliance for business (SOC2, ISO27k1, CE, etc.)
- Someone messed up big time (internal conflicts, incident, data breach)

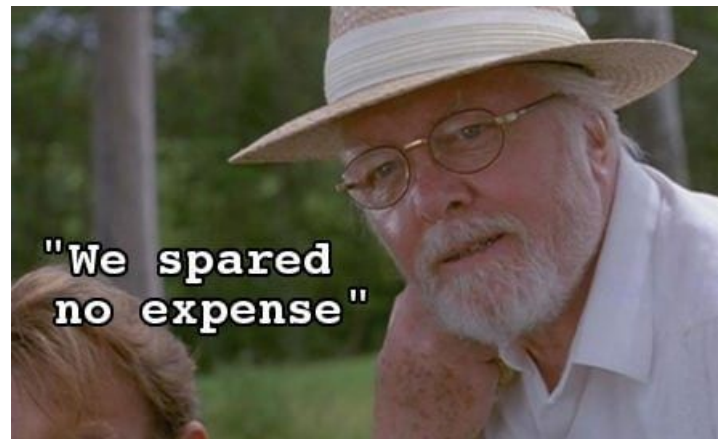
Typical Companies



Image credits: https://twitter.com/dlx_artist/status/1023241620664332290

Startups

- Expect to be the first security hire
- Go fast and break things
- Product first, security whenever
- Try not to get in the way and save them from shooting themselves in the foot
- You will spend most of your time playing catch up with devs and POs



Mid-Sized Companies

- Might have some security controls or an existing program
- Smaller budgets than big companies, but scope can be the same
- It all depends on the culture and the management support
- Legacy, legacy, legacy



Big Companies

- Should already have a security program
- Things take ages to fix due to bureaucracy
- More legacy stuff than you could ever imagine
- Responsibilities might be unclear
- Skeletons in the closet

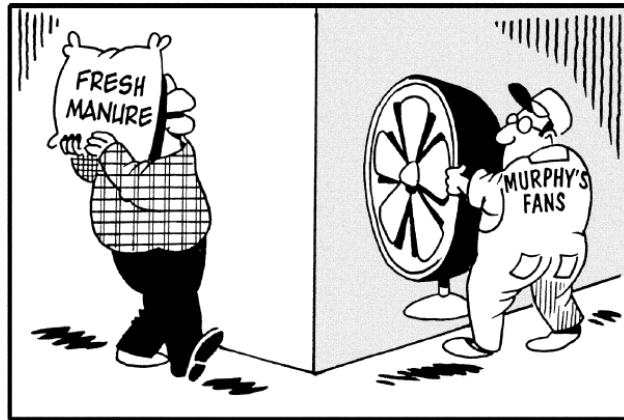


Getting The Lay Of The Land




Prepare for the worst

- Incidents don't wait until you have finished your onboarding
- Make sure that you know who you can escalate/turn to
- Might get pulled into one on your first day/week/month, be prepared



Understand why you are there

- Your priorities should be aligned with business expectations
- If the business doesn't have expectations - that's a huge red flag 
- Expect to be the smartest person in the room when it comes to security
- Always do your own homework, don't accept anything at face value
- Ask for 30/60/90 day plan

The Quieter You Become, The More You Are Able To Hear

- Understand the organization structure, culture, products and services
- Read ALL the available resources (wiki, documentation, policies, Slack, Jira)
- Don't judge other people's security decisions, you might lack some context
- Make friends, understand people's pain points
- Don't be afraid to ask questions



Yes, compliance matters

- Understand contractual and legal obligations
- This is a baseline, you should treat it as the bare minimum
- Non-compliance can lead to penalties, damages or lost business
- Contracts may or may not be changed, but it's an uphill battle
- A requirement matrix can help you define security requirements



Map the gaps!

- There are security gaps, otherwise they wouldn't need you
- Common methods to find problems
 - Security Frameworks
 - Risk Register
 - 3rd Party Audits
 - Threat Modeling
 - Security Tooling
- Expect this to take quite some time

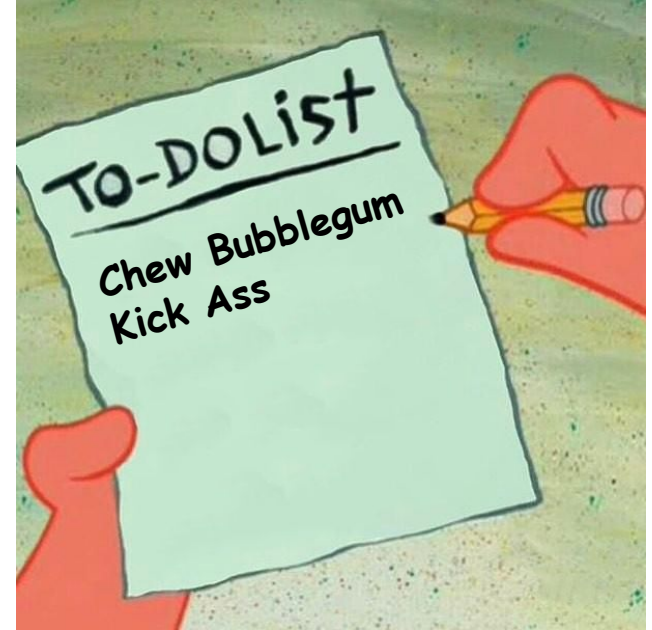


Putting a Plan Together



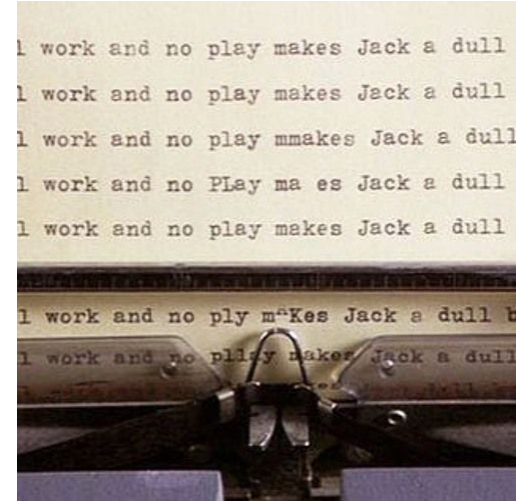
Always outnumbered, always outgunned

- You will never have the resources to do everything
- **Focus** on things that
 - are high risk
 - amplify your impact
 - easy/cheap to fix



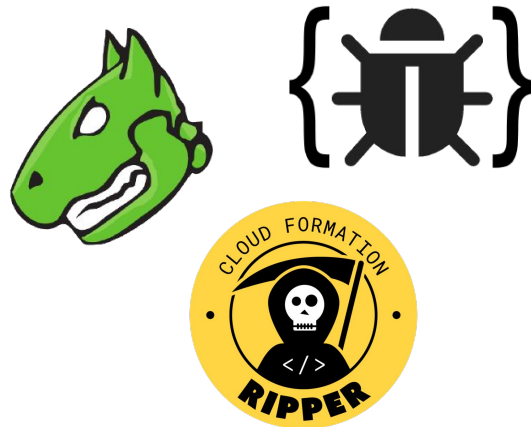
Identify recurring tasks

- Every security team has keep-the-lights on work
- Small tasks add up and limit your output
- Too much KTLO → constant firefighting
- Delegate to other teams, outsource, hire or automate



Security Tooling

- Rolling out and maintaining tooling costs resources
- Hosting your tools can quickly turn into a nightmare
- Only invest in tooling if it
 - saves you time/resources
 - helps you improve security in a meaningful matter
 - required for compliance or enables sales
- Repurpose/piggyback non-security tools (CI/CD, linters, cloud platforms, MDM) with security features



Reporting

- Once you are ready, be prepared to report about status
 - Are we more secure compared to last month?
 - Common outstanding issues?
 - How can we improve?
- Make reports that both you and leadership can use



Creating an action plan

- Understand your assets, risks and your security maturity
- Come up with your short term plans
- What are the biggest risks? Address those first!
- Throw big things on the backlog
- Build up the foundations before doing the flashy stuff
- Don't be afraid to revisit and change later



30/60/90 Day Example

30 days:

- Understand the company processes, technology, products, architecture
- Meet key stakeholders and teams

60 days:

- Understand relevant regulatory and contractual obligations
- Start mapping out security gaps and understand current maturity

90 days:

- Map out short term goals
- Start drafting up improvements

Almost there...



How to avoid being THAT security guy

- Don't throw your weight around
- Don't think that you are smarter than everyone
- Don't try to change everything on your first day
- Don't be a security absolutist
- Don't buy that super expensive AI/blockchain crap



Recommended Materials

Books:

- The Phoenix Project (0988262509)
- Agile Application Security (1491938846) ⚠
- Start-Up Secure (1119700736)

Podcast:

- Defense in Depth / CISO Series Podcast ⚠

Course:

- Coursera - Google Project Management specialization



tl;dr:

- Be humble
- Security is only **one** part of the business
- Make friends instead of enemies
- Do few things and do it "**well enough**"
- Don't try to boil the ocean



Questions?

Thank You!