# Security Champions

**Enabling Product Teams to Move Securely** 

# Keeping Security Top of Mind

Forethought vs Afterthought

### Terms

#### Common Language

- AppSec is about securing the application.
- DevSec is about securing the developer and their actions.
- DevSecOps is about securing the application build chain.
- Product Security is about the end-to-end security of their organization's software products.

# Product Security

# We, the Security Team

#### Recognize That Engineering Teams

- Want to do the right thing
- Are closer to the business context and will make trade-off decisions between security and other tasks
- Want information and advice so those trade-off decisions are more informed

#### Pledge to

- Lower the cost/effort side of any investment in developer security tools or practices
- Assist with preventative initiatives as we beg for your assistance reacting to security incidents

#### **Understand that**

• We are no longer gate keepers, but rather tool-smiths and advisors



# Creating a Common Language

English, Binary, Elvish?

### Overview

#### The plan

Goal - What does good look like?

• Program - Operationalization

• Roll-out - Maturing the program

• Lessons Learned - Please don't make my mistakes!

# Goal

# What is a Security Champion Program?

#### **Ideal state**

- Create a clear picture of a product's risk profile for both product and security leadership.
- Champion(s) will share ownership of the product's overall security score card along with the Information Security team.
- Become a threat Intel feed for the larger Information Security Department.
- Recommend policy and standard modification to meet their product teams needs.
- Actively enhance a product's overall security footprint while working with product manager(s).



Not just knighting someone, a shared partnership

# Program

## How should we structure the program?

#### Things to consider

- Identify teams and stakeholders
- Define champion's role
- Nominate champions
- Establish a communication channel
- Build & maintain a solid knowledge base
- Maintain interest of champions

- Clear security goals to work towards
- Schedule training and interviews with information security department staff
- Work with leadership to allow time for security work
- Get political support
- Build a Career path

# Security Champions playbook

Identify teams

Define the role

Nominate champions

Comm channels

Knowledge base

Maintain interest

- Enumerate products and services
- List teams per each product
- Identify Product manager (responsible for product) and team manager (working directly with developers)
- Write down technologies (programming languages) used by each team
- Measure current security state among the teams and define security goals you plan to achieve in mid-term (e.g. by using OWASP SAMM)
- Identify the places where champions could help (such as verifying security reviews, raising issues for risks in existing code, conducting automated scans etc.)
- Write down clearly defined roles, as these will be the primary tasks for newly nominated champions to work on

- Introduce the idea and role descriptions and get approvals on all levels - both from product and engineering managers, as well as from top management
- Together with team leader identify potentially interested candidates
- Officially nominate them as part of your security metateam

- Make sure to have an easy way to spread information and get feedback
- While differing from company to company, this usually includes chats (Slack/IRC channel, Yammer group, ...) and separate mailing lists
- Set up periodic sync ups - biweelky should be fine to start with

- Build a solid internal security knowledge base, which would become the main source of inspiration for the champions
- It should include security metateam page with defined roles, secure development best practices, descriptions of risks and vulnerabilities and any other relevant info
- Pay special attention to clear and easy-to-follow checklists, as it's usually the simplest way to get the things going

- Develop your ways or choose one of the below to keep in touch and maintain the interest of the champions
- Conduct periodic workshops and encourage participation in security conferences
- Share recent appsec news (e.g. Ezine) via communication channels
- Send internal monthly security newsletters with updates, plans and recognitions for the good work
- Create champions corner with security library, conference calendar, and other interesting materials

# OWASP

https://github.com/c0rdis/security-champions-playbook/tree/master/Security%20Playbook

# Roll-out

# What are the activities we should focus on? Short to long term

• Review existing partnerships within the organization and invest in the people.

• Pilot the program with one product team and share on its success.

 Work with information security leadership to get buy-in from executive leadership.

# What should the champion lead focus on?

#### Optimizations or short term wins

• Start from most left and work right: (Owner - Threat - Automation - Runtime).

Lead conversation(s) focusing on existing and future: (Current -> New).

• Leverage existing partnerships to bring talent to the surface: (Skilled individuals are in every department).

# Growth

#### Strategy

#### Listen, Partner, and ask Questions

- Regular meetings with engineering leadership
- Secure code is a form of "code quality"
- Seamless experience/remove friction

#### Training (Targeted Education)

- Web App pen testing training
- Monthly / Hack Club meetings
- Secure Coding training

#### Secret Sauce

- Matrixed working group aka product teams
- Word-Marketing: Security Assessment/ Evaluations Points vs. Security Toll Gates
- Training dollars sourced from my security budget

# Lessons Learned

## **Executive Leadership**

#### Top down must go with button up

 Place your leaders into groups of trust before kicking off the program (partners, opportunities, and red herring).

Focus on the opportunities group and practice idea(s) with partners group.

 Even if you have CISO buy-in, middle management needs to be treated with white gloves.

### Start with Small Wins

#### Allow champions to share in the story

 Don't try to eat the whale in one bite. Bring the whole family and take a lot of small bites.

 If you solve a problem for one team, allow that team to present the topic to the next team.

 Share the success with security leadership and provide a small token of appreciation to each person.

## Knowledge Base

#### Sharing is caring

• Encourage champions to contribute to knowledge base.

Record the audio and transcript of each session.

Keep attendance and share with compliance / legal.

# Manual

### Manual

#### Linux Command: man man

- Build security, as more than bolt it on.
- Rely on empowered product teams, more than security specialists.
- Implement features securely, more than security features.
- Rely on continuously learning, more than end-of-phase gates.
- Adopt a few key practices deeply and universally, more than a comprehensive set poorly and sporadically.
- Build on culture change, more than policy enforcement.

# Questions?

I see you

# Notes

# What Level of Security Does FNBO Want?

# What level of security can you commit to?

# Proposed RACI for Product Security

#### Function of the group

- Responsible: Information Security Department
- Accountable: Information Security Leader
- Consulted: Product Team(s)
- Informed: Board of Directors