

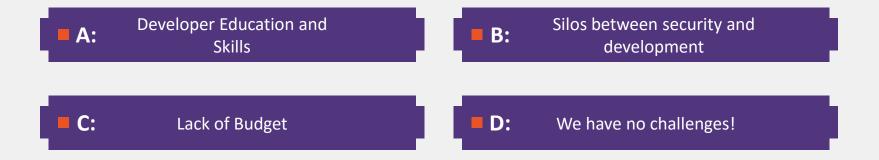
- Top AppSec Challenges
- The Secure Dev Kit
- Case Study
- AppSec Quiz Time
- Final Notes



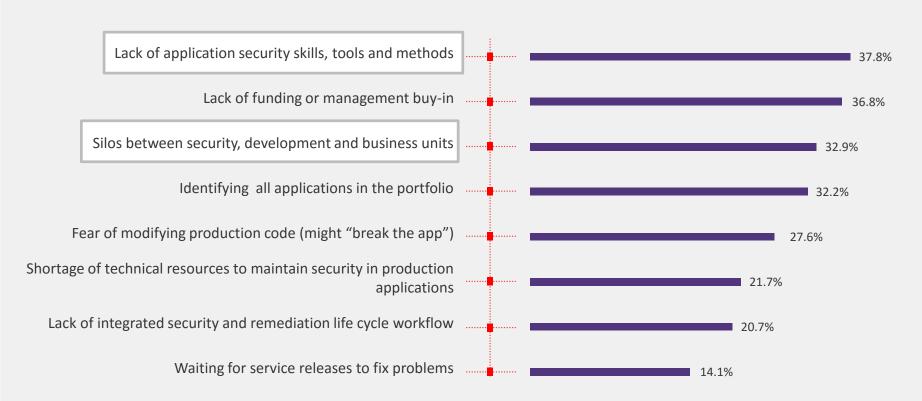


Quick Sync Survey

What is your top challenge in implementing application security?



What Are Your Top Challenges In Implementing Application Security.







Frost & Sullivan: "By 2020 we will have a shortage of 1.5M cyber experts" Websense: "Takes 11 years to become an expert in modern cyber attacks"

The Result













Here's our 8 bit plan

For raising secure development awareness

Step 00000001

Order the Secure Development Kit



It's a physical kit that includes everything you need in order to raise awareness within your organization for application security and have some fun while doing so.

Order a Free Kit

The Kit

Secure Development Kit

www.securedevkit.com



package box





teaser business cards *50 units

welcome- A5

certificates- 1st, 2nd, 3rd place







3 GoH shirts







The Kit



31 security tips for developers







Organization Details

- Publicly held American technology company
- Develops products for online messaging, marketing, and analytics
- Multiple development teams globally distributed
- Group of 200 Developers were selected for the pilot





Challenges



Management Buy-In

- Explain the long term benefits
 - **Top Notch Secure** Coding standards
 - Employees with a goal are motivated employees

Budget

It isn't expensive if you execute properly



Engagement

- Don't force it
- Make it interesting
- Make it Fun
- Make it worthwhile



Execute locally and run a pilot before you go full scale





Preparations

- Champions were assigned
 - Involve champions from the start
 - Invest in your champion's education
- Kickoff with champions
 - Engage champions
- Materials were created and plan was se



- Teasers + Quiz + Prizes = Curiosity
- Provide reference and explain what's going
- Make the program "viral" across the offices
 - Relevant materials were seen everywhere

We mean everywhere!





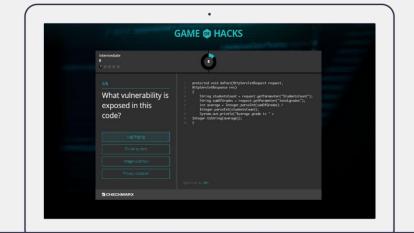
Office Kitchen



Everywhere!

Week 2 Education & Traction

- We started pushing relevant education materials
 - Introduction to secure coding Standards
 - Webinars
 - Reading materials
- Gamify the education to keep it interesting



Week 3 Practice, Practice and more Practice



Spot the vulnerability!

- Public study materials
- Create healthy jealousy if there is such a thing
 - Give out something cool for competition winners!
- Announce the Grande Finale!
- Provide learning materials for preparations

Week 4 - The Grand Finale Challenge

Dear Defender,

Join XXXXXX Defenders Program Grand Finale for a chance to win a ticket to the world's coolest cyber security conference. Black Hat USA, taking place in in Las Vegas this August (https://www.blackhat.com/us-16/)!

After a full month of preparation and activities as part of the Defenders Program, it's time to prove your skills. The Defender challenge will take place on Thursday the 26th of May at the Opera auditorium.

The winner of this interactive challenge will win an all-inclusive pass to Black Hat USA (flights and accommodation included of course!)

Amit Ashbel, Evangelist at Checkmarx will be our guest speaker and will host a challenging & interactive quiz based on everything you learned this month.

Small tip, focus on the following topics:

- 1. Find the vulnerability- play Game of Hacks (www.gameofhacks.com)
- 2. The App Sec How To JavaScript Security Implications whitepaper
- 3. The-State of Mobile Application Security 2014- 2015 whitepaper

We hope to see you all there and good luck!

<ADD Defenders Logo>











Final Notes

- The Secure Dev kit is a kick start education tool
- This was an example how to implement an AppSec education program
- 400 organizations already kicked off their education program
- Gamification is key for success of any education program
- Checkmarx does not do this for a living, we Provide AppSec Solutions





https://www.securedevkit.com/



SECURITY TIPS FOR DEVELOPERS Implement two-factor authentication wherever possible and logical.

#1 MOBILE SECURITY

Limit application

permissions only to

the app to function

properly.

components required for

#2 MOBILE SECURITY

#3 MOBILE SECURITY

#1 AGILE SECURITY

Integrate security

later.

processes as early as

possible in your build

process to cut back on

time spent fixing issues

#2 AGILE SECURITY

Involve your scrum

loop, offering your

defender in your feedback

feedback and requesting

of security in your builds.

theirs on the current state

improve your skills. #1 EDUCATION

Dive into the OWASP Top

dangerous vulnerabilities that should be prevented

10 and learn all you can

about the 10 most

or fixed in code.

#2 EDUCATION

#3 EDUCATION

#4 EDITO ATTOM

Take advantage of online

games and 'vulnerable'

AppSec knowledge and

sites designed to be

hacked to test your

Never trust user input - All user input should be considered 'evil' until

validated otherwise.

Perform threat modeling before testing to tell you where to focus your testing.

Implement TLS and ensure HTTPS is used. Teach the security team about how your team

writes code, so they can

better understand how

and where security can be

#3 AGILE SECURITY

developer, operations,

and security - throughout

#4 ACII E CECIIDITU

Find yourself interested and excited about AppSec? Volunteer as a security scrum defender and help teach other developers.

#1 TOP TIP

#2 TOP TIP

Use a layered approach to

security testing to

deployment.

Invalidate user sessions upon logout or after a dramatically cut down on certain length of time. security issues before

Establish a shared discipline of agile development between the

the SDLC.

integrated.

Develop a work relationship with a member of the security team who you feel comfortable asking security questions and answering coding questions.

Consider storing business logic code on the server side.

#3 TOP TIP #4 TOP TIP

#4 MODILE SECTIDITY



AGILE DEV SECURITY // TIP OF THE DAY

PUSH SMALLER RELEASES MORE OFTEN TO LOWER THE OVERALL RISK POSTURE OF THE APPLICATIONS.



DEV SECURITY // TIP OF THE DAY

NEVER TRUST USER INPUT - ALL USER INPUT SHOULD BE CONSIDERED 'EVIL' UNTIL VALIDATED OTHERWISE.

Certificates



Certificate of Achievement

This is to certify that



IS THE WINNER

In LivePerson's 2016 Defenders Program Game of Hacks



Prizes!



WILL I SEE YOU IN AUGUST?

