

# Where's the "Sec" in Mobile DevOps?

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## Agenda

- Today's Enterprise Mobile App Footprint
- How secure are today's mobile Apps?
- Why Mobile is Different & why traditional perimeter-based security does not Work
- Where do risks arise?
- A better approach





### **About the Presenter**



### Simon Scaife – Mobile AppSec Sales Leader



# Typical conversation I have...





# Today's Mobile App footprint

# Mobile App usage continues to grow



- 90% of mobile internet usage is spent in apps
- 100 billion hours logged in mobile apps each year
- 60% of all web traffic worldwide is from mobile devices
- 71% of employees leverage smartphones for work tasks



# Mobile is eating the world...

Desktop vs Mobile vs Tablet market share





# How Secure are today's Mobile Apps?

## Why is mobile such an easy target?

- Lack of Security on Mobile Devices & Mobile Apps
- Advanced attacker tools are readily available
- Lack of Industry regulation specific to mobile Apps
- Security patches are not applied, missing or delayed
- Lack of Knowledge or low priority for many Businesses
- Sideloading Apps from 3<sup>rd</sup> Party App Stores







### We did our homework, a few million times... Focusing on apps that contain corporate data



**ZIMPERIUM**.

Zimperium Scans Millions of Apps on Public and Private Stores

# Where exactly are the risks?





# So what, who cares?

# This can happen to your app!

### iOS



BHTwitter for Twitter Version 9.49 (3.9.1)

Awesome tweak for Twitter Features: • Download Videos (even if account private). • Custom Tab Bar • Video zoom...



Busuu: Language Learning Version 22.11.0 Hack Features: • PREMIUM



**CerCube+ for YouTube** Version 17.41.2 (5.3.11) Cercube with extra features



Dead Ahead: Zombie Warfare Version 3.7.6

Hack Features: • Infinite Mana • Instant Warrior Spawn (Show timer, but work) • Freeze Coin • Freeze Fuel



Documents by Readdle Version 8.3.4 enabled Plus features



Dragon for WhatsApp Business Version 2.21.60 (1.7)

A powerful tweak for WhatsApp Business! Features: • Disable Read Receipts • Disable Typing Indicator • View ...



### Android

Home / App / News-magazines / The Australian Mod APK



The Australian 6.9.0 APK + Mod (Subscribed) for Android

**Premium Subscriptions** 



app / Entertainment

### HBO Max: Stream TV & Movies APK 52.5.1 APK + Mod (Unlimited money) for Android

HBO Max: Stream TV & Movies APK

#### Download

Mod info Premium Unlocked, 4K HDR

# And it's happening to mobile banking apps too!

#### Queensland woman loses \$57k in phone hack scam

An Aussie woman has issued a warning after a scammer stole her life savings through what appears to be no fault of her own.

#### Staff writers

2 min read August 28, 2024 - 3:47PM PROVIDE COM.au

An Aussie woman has issued a warning after a scammer stole her life savings through what appears to be no fault of her own.

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Deslie Harvey, a 79-year-old grandmother from Queensland, recounted her horror at sitting in hospital with her sick husband when, in the space of less than 30 minutes, she watched on as her bank account was wiped clean.

A hacker had somehow gained control of her phone remotely and successfully put through seven transactions.

They were able to bypass security measures when an authorisation code was sent to her mobile – as they already had access.





## The threats facing your Mobile Apps and users

#### **Threat Map**



# A better approach

# Mobile Application Security Testing (MAST)

- Do you test your app binary before releasing to production, in addition to testing the source code?
- Do you rely on Pen Testing at the end of the development cycle before go live?



How do you validate that security measures put in place are working against attacks in the real world?





SAST, SCA

## What does a MAST scan look for?





# **Mobile DevOps Workflow**





## Wouldn't this be better?

### Mobile AppSec in action





# Key Takeaways

- Mobile Apps are exposed to different threats when compared to Web Apps. So you need to take a different approach to Secure DevOps.
- 2. Consider MAST for mobile Apps, to bridge the gap between source code testing and pen testing.
- 3. Have a plan for protecting your mobile App when it's "out there in the wild".



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# Thank You



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