

# **SIA Session 3: Zimperium Studio 4**

**Your data is mobile.  
Is your security?**

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CISSP CCSP CISM CISA CDPSE CCAK CCSK

An aerial, top-down view of a large crowd of people walking across a crosswalk. The crosswalk is marked with white stripes on a dark pavement. The people are seen from above, some carrying bags, some looking down, and some looking up. The overall scene is busy and represents a large, diverse group of individuals.

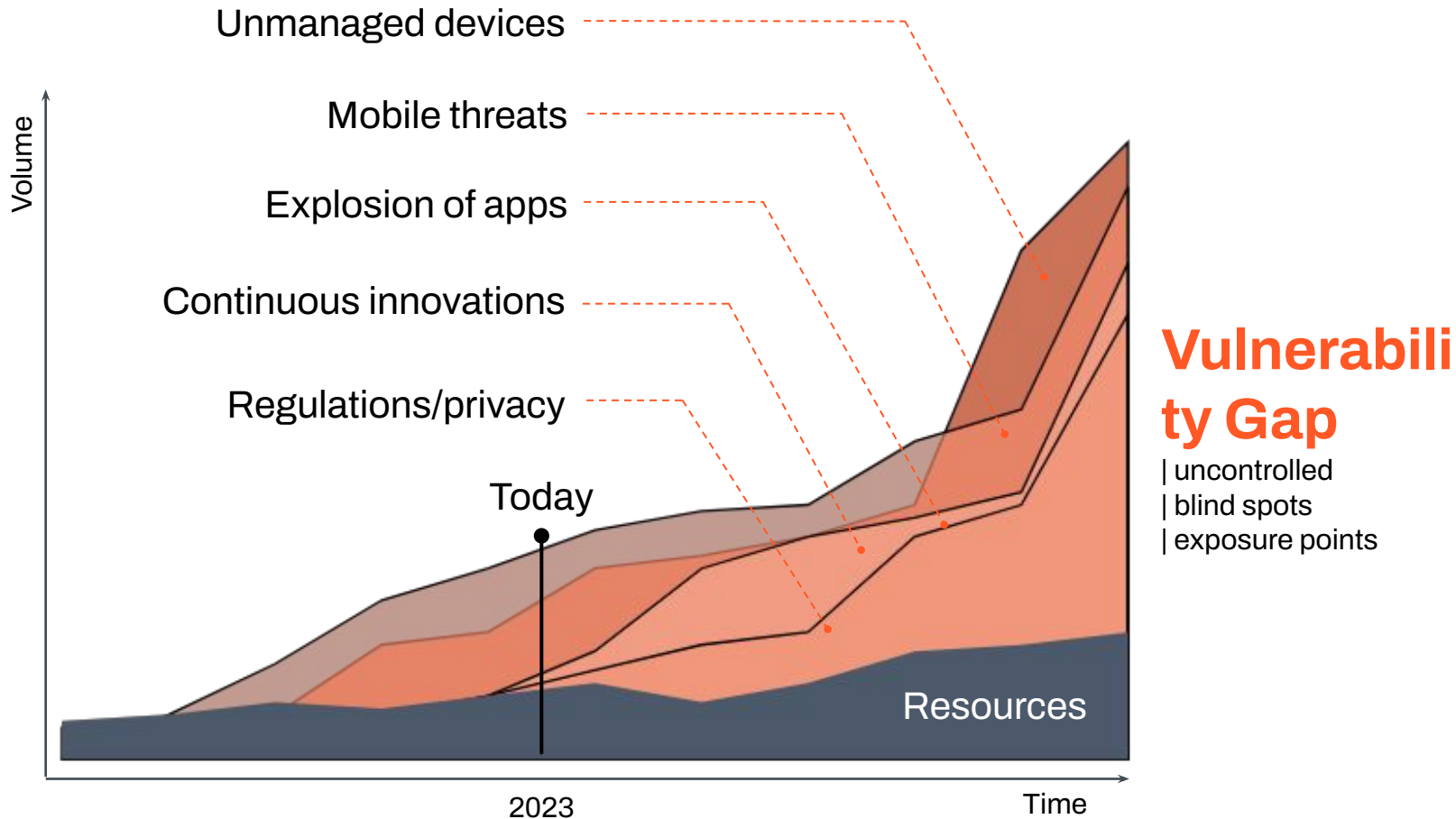
# Mobile Cyber Hygiene

**“How can you trust mobile, without visibility?”**

**Never trust, always verify!**

RISK MOVES TO THE EDGE

# The escalating Vulnerability Gap



## Creating negative consequences

BRAND IMPACT

**46%**

suffered reputational damage

FINANCIAL IMPACT

**\$29B**

digital fraud from mobile

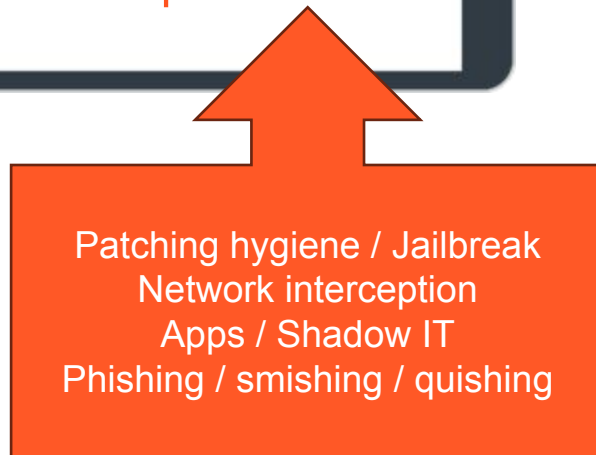
BOARD-LEVEL PRIORITY

**88%**

view cyber risk as business risk

# Threat exposure for mobile devices

CYBER HYGIENE



## Device

**65%** of enterprise devices running an OS with **CRITICAL** vulnerabilities



## Network

**1:5**

One in five enterprise mobile devices experienced a network attack



## Applications

**144,000**

New mobile malware signatures per month



## Phishing

**90%** of breaches start with phishing;  
**60%** of emails read on mobile

# OS exposure for mobile devices

COST OF DATA AND ACCESS TO POWER DICTATE PATCHING HYGIENE

**Exploitation** of OS or Kernel Vulnerabilities, Malicious Chargers, etc.

**Manipulation** of Encryption Keys, Integrity Checks, Libraries, System Calls, etc.

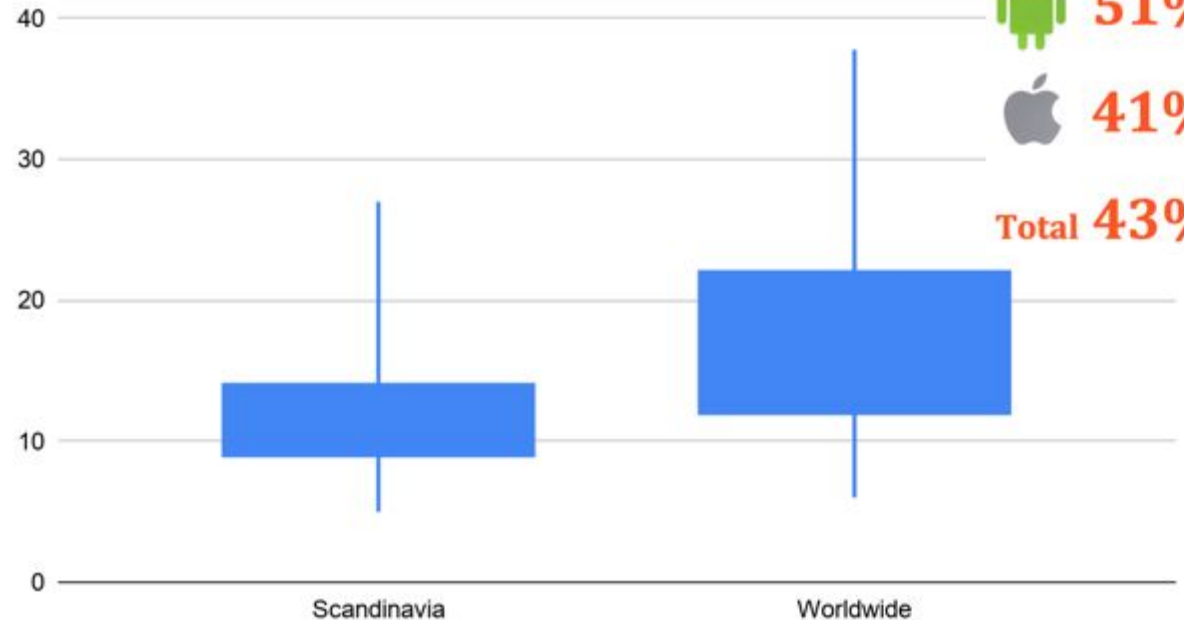
- Remote Access
- Downloads & Executables
- Keychain Exposure
- Privilege Escalation
- File Decryption
- Rooting
- Mount Point Changes
- System Tampering
- Keylogger



## Device

**65%** of enterprise devices running an OS with **CRITICAL** vulnerabilities

Time to update device from release (in days)



**% tampered**  
not rooted/jailbroken

**51%**

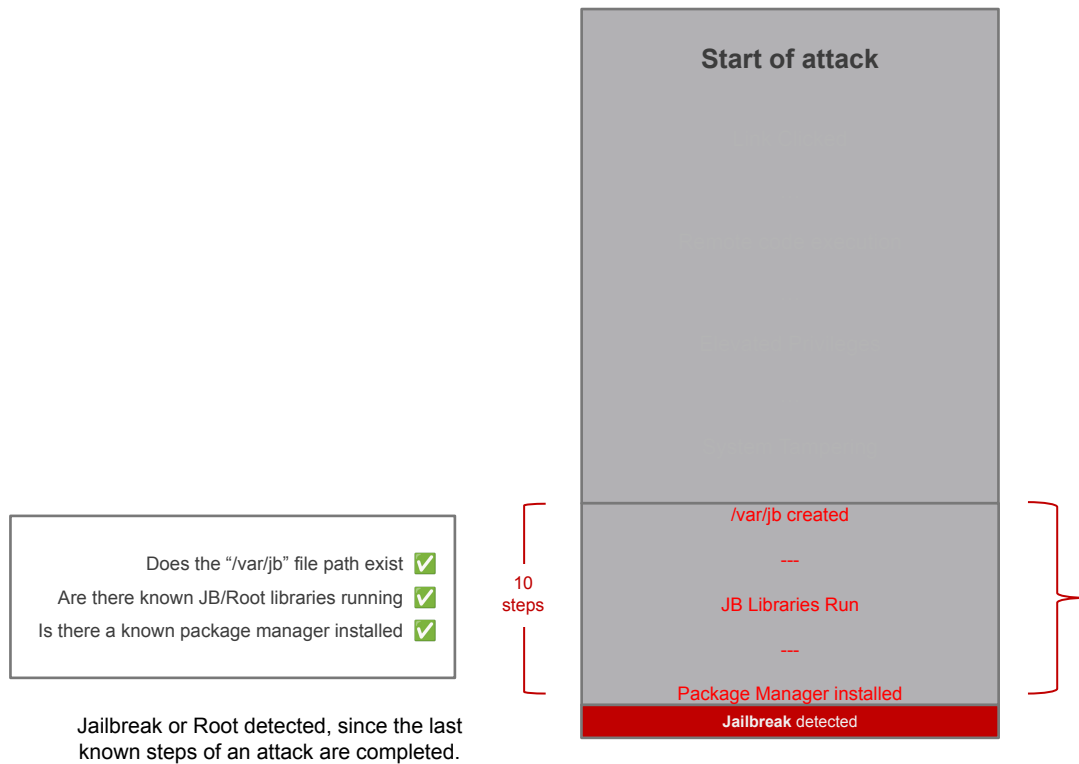
**41%**

**Total 43%**

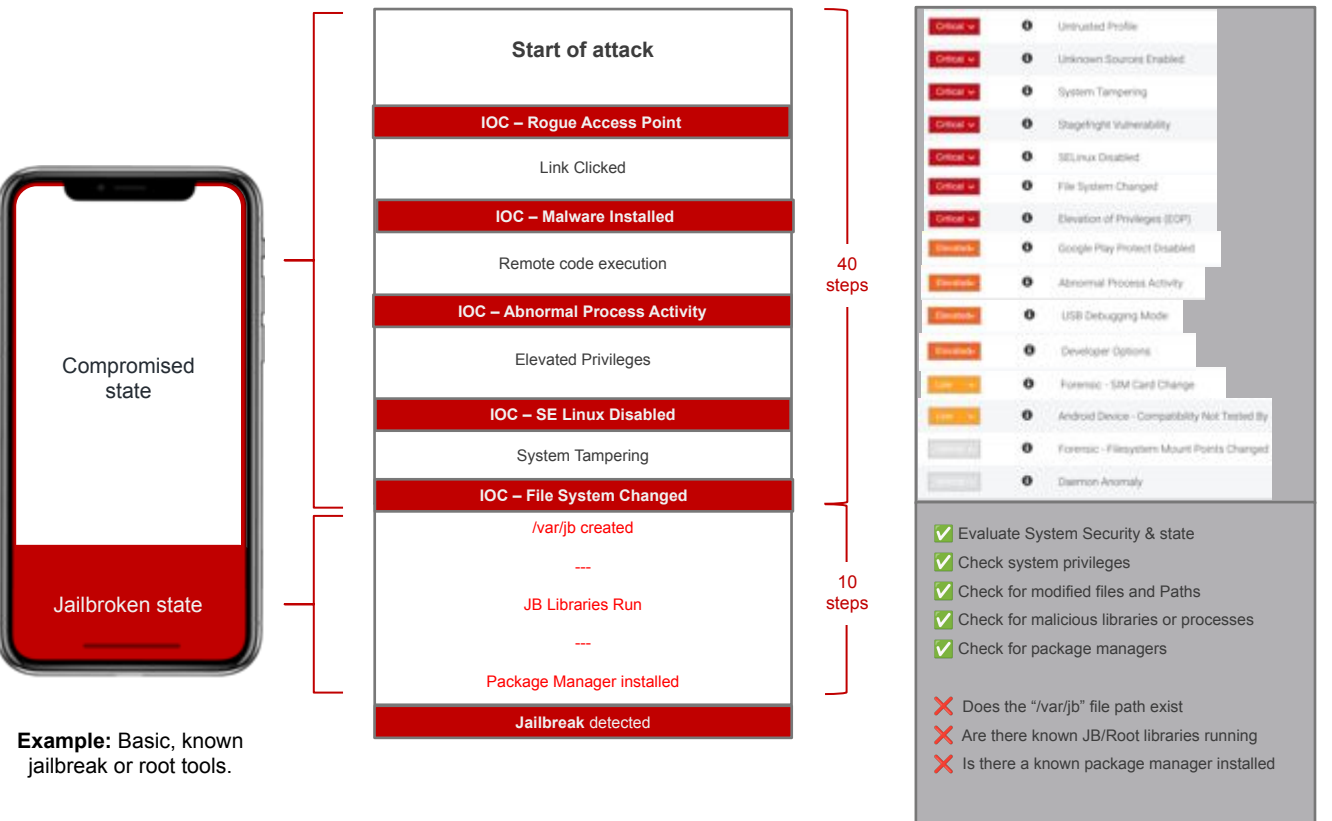
# Defensive strategies: Compromise vs Root Detection

Zimperium focuses on detecting abnormalities, indicators of compromise, and advanced attack techniques. Other tools only trigger a detection when the final, already-known static steps of an attack are detected.

## Other Jailbreak/Root Detection Tools



## Zimperium Compromise Detection



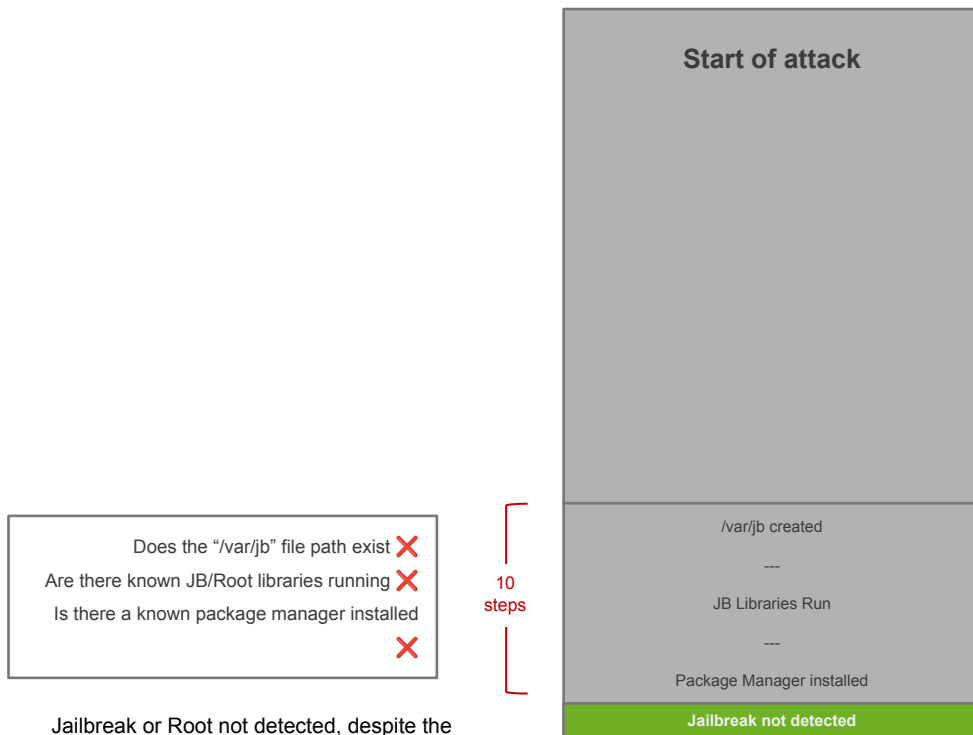
**Example:** Basic, known jailbreak or root tools.

Jailbreak/Root is detected, in addition to a trail of compromise indicators which show an attack.

# Defensive strategies: Compromise vs Root Detection

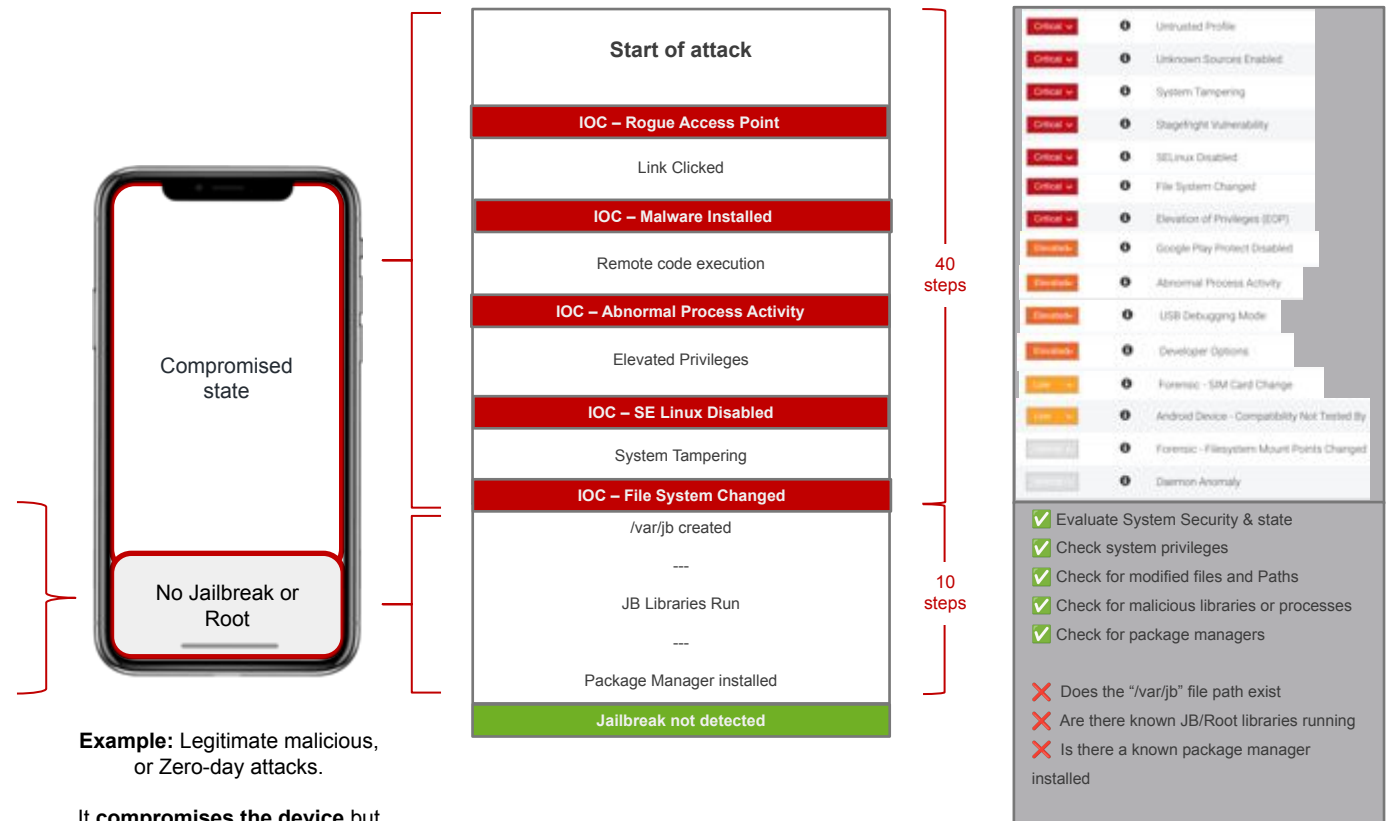
Zimperium focuses on detecting abnormalities, indicators of compromise, and advanced attack techniques. Other tools only trigger a detection when the final, already-known static steps of an attack are detected.

## Other Jailbreak/Root Detection Tools



Jailbreak or Root not detected, despite the device being compromised.

## Zimperium Compromise Detection

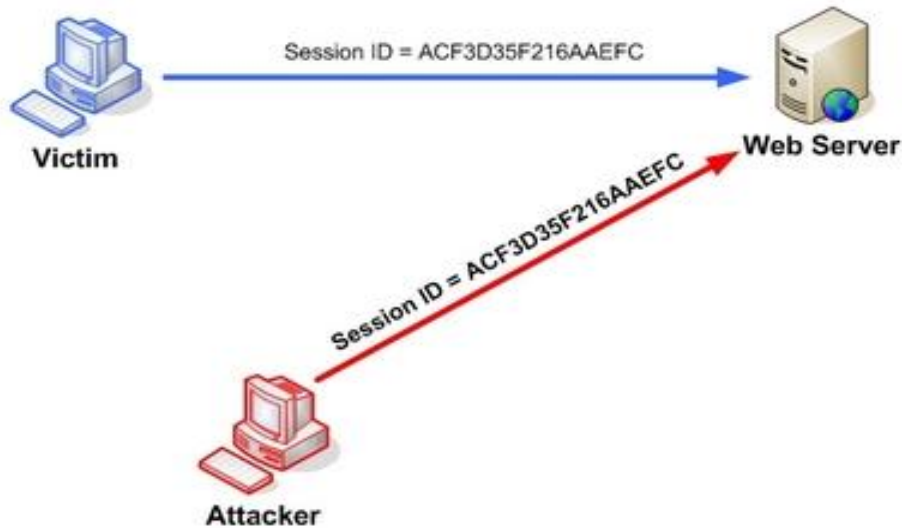


**Example:** Legitimate malicious, or Zero-day attacks.

It **compromises the device** but **does not jailbreak or Root device.**

Jailbreak or Root is NOT detected. However, the trail of compromise indicators show an attack.

# Network exposure for mobile devices



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New mobile malware signatures per month



## Phishing

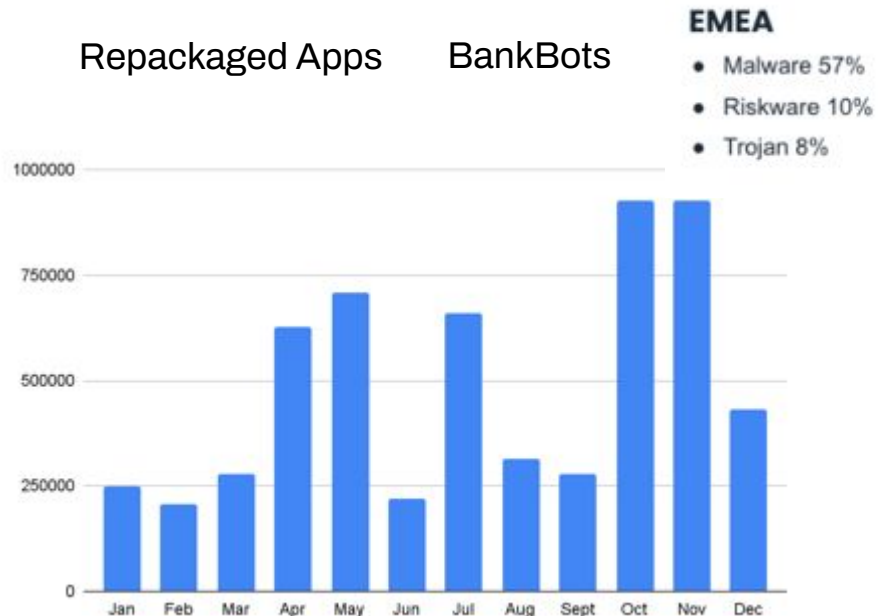
90% of breaches start with phishing;  
60% of emails read on mobile



# App exposure for mobile devices

THE NEW SHADOW IT COMPONENTS ARE MOBILE AND AI

Malware    3<sup>rd</sup> Party Libraries / Back Door  
Dynamic Runtime Injection    Ransomware  
Remote Access Tools    Data Harvesting  
Spyware    Browser CVEs    Trojans  
Repackaged Apps    BankBots



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# App hunting and app vetting

LOOK FOR APP CHARACTERISTICS AND AFFECTED DEVICES

Rule Name

Description

OOO

Common Characteristics  All Characteristics

Search

Security

- Load dynamic code
- Load native code
- Possibly not be using binary protection
- Read a list of installed apps
- Use unencrypted network connections

All of these (AND)

- Communicate with a server in Russian Federation
- Communicate with a server in China
- Record audio content
- Access the camera

Any of these (OR)

Rules only affect devices that currently have matching apps installed.

This rule will match 89 apps and 12 devices.

## Policy Characteristics

### All Characteristics

#### Privacy

The app is using OpenAI's ChatGPT

#### Server Location

Communicate with a server in China

### Any Characteristics

### App Bio



#### ABOUT APP

WhatsApp Business from Meta WhatsApp Business enables you to have a business presence on WhatsApp, communicate more efficiently with your customers, and help you grow your business. If you have separate business and personal phone numbers, you can have both WhatsApp Business and WhatsApp Messenger installed on the same phone, and register them with different numbers. In addition to the features available in WhatsApp Messenger, WhatsApp Business includes:

- **BUSINESS PROFILE:** Create a profile for your business to help your customers find valuable information — like your website, location, or contact information.
- **BUSINESS MESSAGING TOOLS:** Be more responsive to your customers by using Away messages to indicate when you're away or Greeting message to send your customers an introductory message when they first message you.
- **LANDLINE/FIXED NUMBER SUPPORT:** You can use WhatsApp Business with a landline (or fixed) phone number and your customers can message you on that number. During verification, select the "Call me" option to receive the code over a phone call.
- **RUN BOTH WHATSAPP MESSENGER AND WHATSAPP BUSINESS:** You can use both WhatsApp Business and WhatsApp Messenger on the same phone, but each app must have its own unique phone number.
- **WHATSAPP WEB:** You can more efficiently respond to your customers right from your computer's browser. WhatsApp Business is built on top of WhatsApp Messenger and includes all the features that you rely on, such as the ability to send multimedia, free calls\*, free international messaging\*, group chat, offline messages, and much more. \*Data charges may apply. Contact your provider for details. Note: once you restore chat backup from WhatsApp Messenger to WhatsApp Business, you will no longer be able to restore it back to WhatsApp Messenger. If you would like to go back, we recommend that you copy the WhatsApp Messenger backup on your phone to your computer before you start using WhatsApp Business.

— We're always excited to hear from you! If you have any feedback, questions, or concerns, please email us at [smb@support.whatsapp.com](mailto:smb@support.whatsapp.com) or follow us on twitter: [@WhatsApp](http://twitter.com/WhatsApp)

PRIVACY




High

SECURITY



High

PLATFORM



APP HASH  
a7847e1496476fa57f32077df8881b4f

PACKAGE  
com.whatsappw4b

FREE/Paid  
FREE

AVERAGE RATING  
4/5 ★★★★★

APP CATEGORY  
Communication

TIME IN APPSTORE  
6 years 3 months 19 days

REPORT BASED ON APP VERSION  
2.24.7.81 (240781003)

LATEST VERSION  
NO

APP INSTALL COUNT  
1,000,000,000

APP SCREENSHOTS



### App Permissions Summary

**android.permission.ACCESS\_COARSE\_LOCATION**

Allows an app to access approximate location derived from network location sources such as cell towers and Wi-Fi.

DANGEROUS PERMISSION

UNEXPECTED PERMISSION

**android.permission.ACCESS\_FINE\_LOCATION**

The application can retrieve the device's precise location using GPS or network based locations such as cell towers position and Wi-Fi. This level of accuracy is recommended only for navigation apps.

DANGEROUS PERMISSION

UNEXPECTED PERMISSION

**android.permission.AUTHENTICATE\_ACCOUNTS**

This application can authenticate through the accounts on the device. This permission allows the application to add and remove accounts, confirm credentials and retrieve access tokens.

DANGEROUS PERMISSION

UNEXPECTED PERMISSION

**android.permission.CAMERA**

The application has access to the camera. Ensure it cannot take photo's without your knowledge.

DANGEROUS PERMISSION

UNEXPECTED PERMISSION

**android.permission.CHANGE\_NETWORK\_STATE**

This application can change the network connectivity state.

DANGEROUS PERMISSION

UNEXPECTED PERMISSION

**android.permission.CHANGE\_WIFI\_STATE**

Allows modifying the WiFi connection status

DANGEROUS PERMISSION

UNEXPECTED PERMISSION

**android.permission.GET\_ACCOUNTS**

Allows access to the list of accounts in the Accounts Service.

DANGEROUS PERMISSION

UNEXPECTED PERMISSION

**android.permission.GET\_TASKS**

This application can retrieve information about currently and recently running tasks. This may allow the app to discover information about other applications on the device.

DANGEROUS PERMISSION

UNEXPECTED PERMISSION

**android.permission.MANAGE\_ACCOUNTS**

This application can perform operations like adding and removing accounts, and deleting their password.

DANGEROUS PERMISSION

UNEXPECTED PERMISSION

**android.permission.MODIFY\_AUDIO\_SETTINGS**

This application can control your audio settings such as volume levels.

DANGEROUS PERMISSION

UNEXPECTED PERMISSION

- com.huawei.android.launcher.permission.WRITE\_SETTINGS UNEXPECTED PERMISSION
- com.sec.android.provider.badge.permission.READ UNEXPECTED PERMISSION
- com.sec.android.provider.badge.permission.WRITE UNEXPECTED PERMISSION
- com.sonyericsson.home.permission.BROADCAST\_BADGE UNEXPECTED PERMISSION
- com.sonymobile.home.permission.PROVIDER\_INSERT\_BADGE UNEXPECTED PERMISSION
- com.whatsapp.permission.MIGRATION\_CONTENT\_PROVIDER UNEXPECTED PERMISSION
- com.whatsapp.permission.REGISTRATION UNEXPECTED PERMISSION
- com.whatsapp.sticker.READ UNEXPECTED PERMISSION
- com.whatsapp.w4b.DYNAMIC\_RECEIVER\_NOT\_EXPORTED\_PERMISSION UNEXPECTED PERMISSION




- com.whatsapp.w4b.permission.BROADCAST UNEXPECTED PERMISSION
- com.whatsapp.w4b.permission.MAPS\_RECEIVE UNEXPECTED PERMISSION





## OWASP Summary

The OWASP summary contains results of the testing that was performed on the application against the OWASP Top 10 Mobile Categories.

 Categories that passed the have a green shield.

 Categories that failed have a red shield.

### M1 Improper Platform Usage

-  access to system-wide possibly writable locations.
-  The activity has an intent-filter that is associated with URI with specified schema also known as 'deep-link'.
-  The Android application exposes a service component for use by other applications, but might not properly restrict which applications can launch the component or access the data it contains.
-  The Android application exposes an activity component for use by other applications, but might not properly restrict which applications can launch the component or access the data it contains.

### M2 Insecure Data Storage

-  This app has enabled the backup feature in Android. The backup data may expose sensitive information which potentially could be accessed by an adversary.
-  The content provider is not protected by signature permission and exported in the AndroidManifest.xml file. Content providers offer a structured storage mechanism that can be limited to this application or exported to allow access by other applications.
-  The content provider is not protected by signature permission and is exported in the AndroidManifest.xml file. Content providers offer a structured storage mechanism that can be limited to this app or exported to allow access by other apps.
-  The application is using a database that is not encrypted. The lack of encryption could lead to PII or sensitive data leakage if stored in the database.

### M3 Insecure Communications

-  No problems found.

### M4 Insecure Authentication

 Medium

 Vulnerability

Unexpected Behaviour

DESCRIPTION

A hardcoded secret has been detected.

DETAILS

X.A4Q  
 X.A4n  
 X.AK1  
 X.AbD  
 X.AbstractC36079s4  
 X.AbstractC37009tg  
 X.AbstractC39439yJ  
 X.AnonymousClass402  
 X.AnonymousClass644  
 X.B38  
 ...  
 com.whatsapp.voipcalling.VoipActivityV2  
 com.whatsapp.voicetranscription.AudioTranscriptionView  
 com.whatsapp.statuscomposer.composer.TextStatusComposerFragment  
 com.whatsapp.polls.PollResultsActivity  
 com.whatsapp.payments.ui.BrazilHostedPaymentPageBottomSheet  
 com.whatsapp.newsletterenforcements.client.NewsletterAppealsClient\$CreateGeosuspensionAppeal\$2  
 com.whatsapp.newsletter.ui.multiadmin.NewsletterRevokeAdminInviteSheet  
 com.whatsapp.newsletter.ui.multiadmin.NewsletterAcceptAdminInviteSheet  
 com.whatsapp.newsletter.multiadmin.InviteNewsletterAdminSelector\$onSend\$1  
 com.whatsapp.newsletter.multiadmin.InviteNewsletterAdminMessageFragment

76 locations available.

COMPLIANCE CATEGORIES

OWASP  M6 INSECURE AUTHORIZATION

MITRE MATRIX APPLICABLE TO THIS FINDING

MITRE TECHNIQUE ID: T1658  
 Exploitation for Client Execution  
 MITRE TACTIC TYPE  
 Post-Adversary Device Access  
 MITRE TACTIC  
 Execution  
<https://attack.mitre.org/techniques/T1658>

 Medium

 Vulnerability

Unexpected Behaviour

### LOCAL FRAMEWORKS USED

#### Android Support Library V4

Development Tool

#### Lottie by Airbnb

Development Tool

#### Facebook Fresco

Development Tool

#### Shimmer by Facebook

Development Tool

#### Google Maps

Backend, Development Tool

#### Google reCAPTCHA

Development Tool

#### Google Firebase

Analytics, Analytics, Backend, Development Tool

#### Protobuf

Development Tool

#### Dagger

Development Tool

#### Kotlin

Development Tool

#### Chromium

Development Tool

#### pjsip

Communication

#### WhisperSystems/jobmanager

Development Tool

#### Facebook SDK

Facebook SDK for Android helps you build engaging social apps and get more installs. Includes Bolts, Audience Network, and Facebook packages. Requires Android API 9.

#### Instagram

Instagram is a fast, beautiful and fun way to share your life with friends and family. Take a picture or video, choose a filter to transform its look and feel, then post to Instagram — it's that easy. You can even share to Facebook, Twitter, Tumblr and more. It's a new way to see the world.



- Personal Sites

 France

DOMAIN	IP	REPUTATION	SSL	REGISTRANT	VULNERABILITY
videolan.org - Computers & Technology - Streaming Media & Downloads	213.36.253.2	<span style="color: green;">■</span>	<span style="color: green;">■</span>	<span style="color: green;">■</span>	<span style="color: green;">■</span>

 Germany

DOMAIN	IP	REPUTATION	SSL	REGISTRANT	VULNERABILITY
iptc.org - News	3.64.29.21	<span style="color: green;">■</span>	<span style="color: green;">■</span>	<span style="color: green;">■</span>	<span style="color: green;">■</span>

 India

DOMAIN	IP	REPUTATION	SSL	REGISTRANT	VULNERABILITY
jio.com - Computers & Technology	49.40.8.203	<span style="color: green;">■</span>	<span style="color: green;">■</span>	<span style="color: green;">■</span>	<span style="color: green;">■</span>
tjio - Spam	49.40.27.67	<span style="color: red;">■</span>	<span style="color: green;">■</span>	<span style="color: green;">■</span>	<span style="color: green;">■</span>

 United States

DOMAIN	IP	REPUTATION	SSL	REGISTRANT	VULNERABILITY
--------	----	------------	-----	------------	---------------

- Social Networking  
- Travel

co.in 142.251.163.94 [Green] [Green] [Green] [Green]  
- Search Engines

co.zw 172.253.62.94 [Green] [Green] [Green] [Green]



39/39

- Search Engines

gosquared.com 52.202.144.30 [Green] [Green] [Green] [Green]  
- Pop-Ups

recaptcha.net 172.253.62.94 [Green] [Green] [Green] [Green]  
- Computers & Technology

exoplayer.dev 185.199.110.153 [Green] [Green] [Green] [Green]  
- Computers & Technology

wl.co 157.240.19.19 [Red] [Green] [Green] [Green]  
- Malware  
- Phishing

tenor.co 151.101.130.217 [Green] [Green] [Green] [Green]  
- Entertainment

google.ae 172.217.1.195 [Green] [Green] [Green] [Green]  
- Search Engines

googleapis.com 142.251.32.132 [Green] [Green] [Green] [Green]  
- Computers & Technology

# Threat exposure for **mobile devices**



## Device

**65%** of enterprise devices running an OS with **CRITICAL** vulnerabilities



## Network

**1:5**  
One in five enterprise mobile devices experienced a network attack



## Applications

**144,000**  
New mobile malware signatures per month

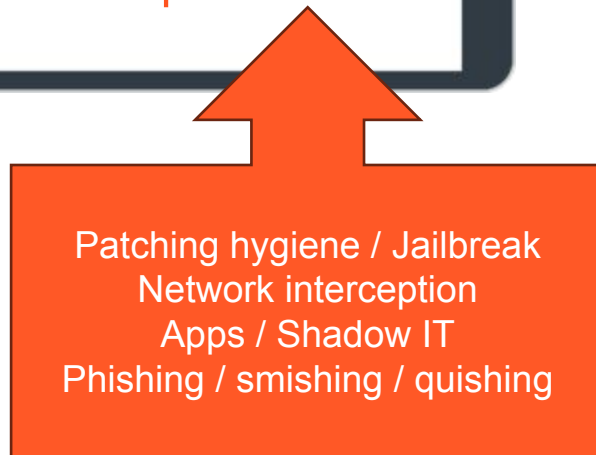


## Phishing

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# Threat exposure for mobile devices

CYBER HYGIENE



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# Demo scenario

- Making it hard for the user.... **PDF** files and **phishing**
- Making life easier... but riskier... **Shortcuts**
- User **jailbreaks** devices
- ... regrets it and tries to hide it
- ... but we have forensic analysis
- Give the user the tools to increase its mobile cyber hygiene
- ... stop links

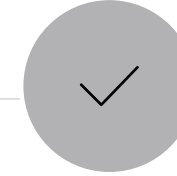
# Recommended Next Steps



Understand why  
mobile cyber  
hygiene is key

## Vet your Mobile App

Receive a personalized app  
analysis of YOUR mobile app or a  
mobile app of your choice



## Test For Yourself

Pilot the solution internally to  
validate enterprise fit

NIS2  
Directive



# a Mobile-First Security Strategy



National Cyber  
Security Centre  
a part of GCHQ

1

**Prioritize risk at the edge:** secure the mobile-powered business reality, across all devices and apps, any platform

2

**Operate in a known state:** complete visibility of your mobile ecosystem and risk level, automatically assess vulnerabilities, never throttle productivity - measurable, auditable and insurable

3

**Step-up detection and response:** detect and prioritize anomalies, contextual threat response, resolve vulnerabilities and incidents proactively, embed security across device and application lifecycle for tamper-proof/threat-aware mobile experiences

4

**Start the autonomous journey:** dynamically respond to threats and ever-changing mobile ecosystem, automatically isolate compromised devices/ untrusted environments, scale a proactive security posture, build resilience

5

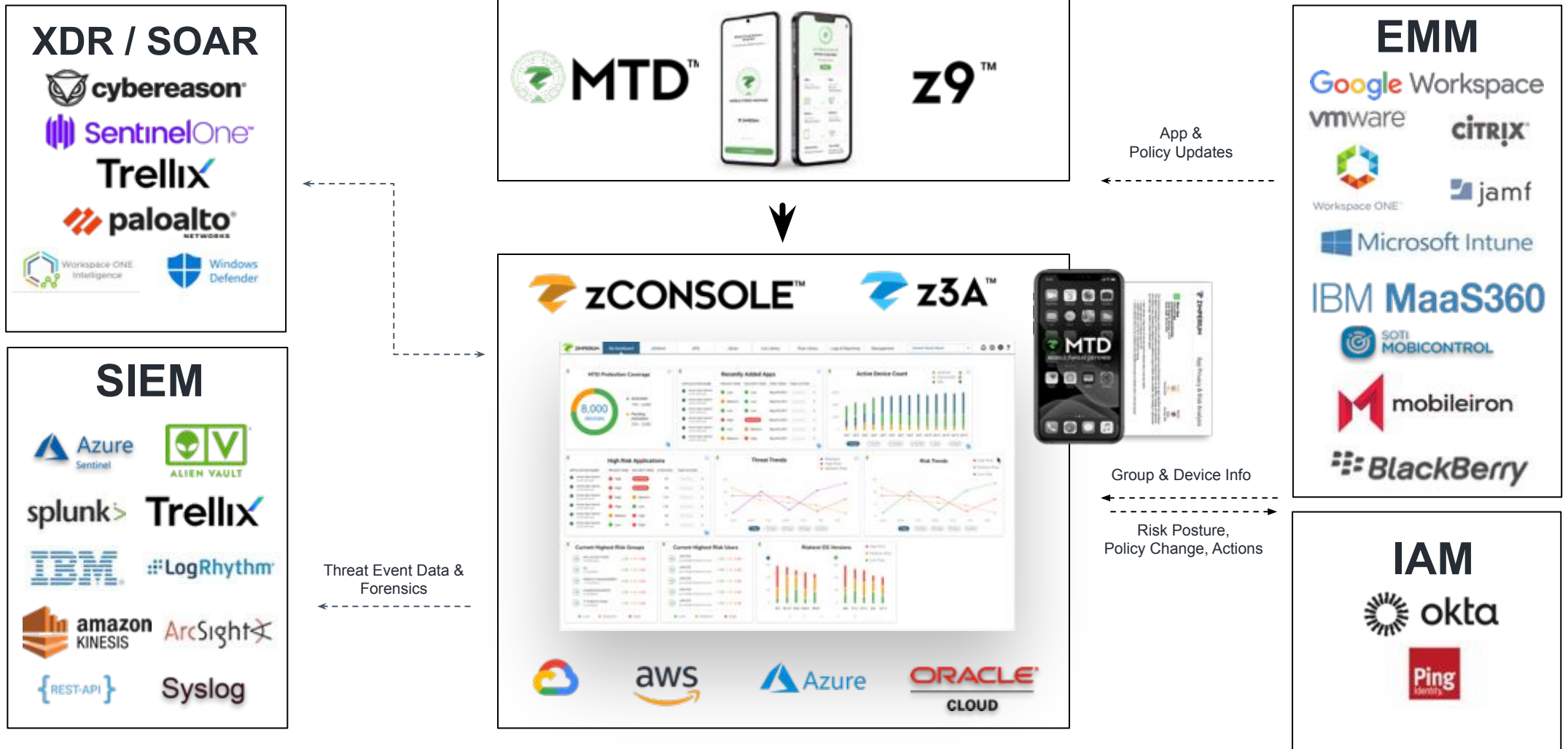
**Never break the law:** govern compliance, stay ahead of global regulations, data sovereignty, and privacy regulations while respecting work/life boundaries

# Architecture and Trellix integrations





# Platform Ecosystem



# MDM+Trellix Mobile = Best protection together


**Trellix**  
**Mobile**



Detect and protect against unauthorized attacks

**MDM**

Device enrollment  
Device Policy management  
Application distribution



BlackBerry  
UEM



Business  
Concierge



Citrix



IBM MaaS360



JAMF Pro



Microsoft



Microsoft



MobileIron  
Cloud



MobileIron  
Core



SOTI  
MobiControl



VMware  
Workspace  
ONE UEM

# MITRE ATT&CK Coverage



Coverage with MDM, MTD, and MAV

**How do we manage?**



# Direct access - No Configuration Click and Access to the Tenant

The screenshot displays the Trellix EPO Protection Workspace interface. The top navigation bar includes 'EPO → Protection Workspace' and various menu items like 'FAVORITES', 'Protection Workspace', 'Trellix Marketplace', 'Product Deployment', 'Dashboards', 'System Tree', 'Policy Catalog', and 'Tag Catalog'. A search bar is present with the text 'Search Menu'. The main content area is divided into several sections:

- REPORTING:** Protection Workspace, Dashboards, Queries & Reports, Audit Log, Threat Event Log, Server Task Log, Firewall Client Rules, Exploit Prevention Events, Adaptive Threat Protection Events.
- POLICY:** Policy Catalog, Policy Assignments, Policy Assignment Rules, Policy History, Policy Comparison, Firewall Catalog.
- DATA PROTECTION:** Operational Event Management, Incident Management, DLP Settings, DLP Getting Started, Classification.
- SYSTEMS:** System Tree, Tag Catalog, TIE Reputations, Appliance Management.
- SOFTWARE:** Product Deployment, Advanced Deployment, Main Repository.
- CONFIGURATION:** Settings, Directory Service, Users & Roles, Appliance and Server Registration, OpenDXL Configuration, SCB Administration.
- MVISION:** Trellix Marketplace, Trellix Incisive, **Trellix Mobile Security** (highlighted with a red box).
- AUTOMATION:** Server Tasks, Client Tasks, Client Task Assignments, Client Task Comparison, Automatic Responses.

The right-hand side of the interface features a 'Compliance Overview' section with three charts:

- Security Content:** 66% Today. A bar chart showing compliance levels from Mar 23 to Mar 29, with a tooltip indicating 66%.
- Software Status:** 27% Today. A bar chart showing software status from Mar 23 to Mar 29, with a tooltip indicating 27%.
- Device Management:** 24 Today. A bar chart showing device management from Mar 23 to Mar 29, with a tooltip indicating 24.

At the top right, there are indicators for '31 Devices' and '6 NOW Escalations'. A sidebar on the right shows a list of devices: WIN10X64003, WIN10X64001, system001, VictimPC02, NIYOW10-EDR, and DESKTOP-LK11.



# Direct access - No Configuration

## Click and Access to the Tenant

The screenshot displays the Trellix Mobile Security dashboard with the following sections:

- Summary:** 4 Analyzed Devices, 20 Threats, 2 Analyzed Networks, 0 Threats, 70 Analyzed Apps, 0 Threats.
- Threat Event Log:** A table listing incident summaries for various users, including notifications, phishing attempts, and abnormal activities.
- Risk Management:** A table showing a risk level of 100.0% for unknown threats, with 4/4 devices affected.
- Most Attacked User/Devices:** A table showing the user 146519-5294-4799-af66-c0246818461-g@pr-user@imperium.com with a threat count of 20.
- Most Attacked Networks:** A table for network-based threats.
- MTD Operational Mode:** A chart showing 100% Active devices (4 Devices), 0% Inactive (0 Devices), and 0% Pending Activation (0 Devices).
- MTD Version Distribution:** A chart showing the distribution of Mobile Threat Detection versions across devices.
- OS Version Distribution:** A chart showing the distribution of operating system versions across devices.



# Tenant configuration

The screenshot displays the Trellix Mobile Security dashboard. At the top, there is a navigation bar with the following items: Protection Workspace, Trellix Marketplace, Product Deployment, Dashboards, System Tree, Policy Catalog, and Tag Catalog. Below the navigation bar, the main dashboard area is divided into several sections:

- Mobile Security**: A central header section.
- Summary Cards**: A row of cards showing key metrics:
  - Devices**: 4 Analyzed
  - Threats**: 1
  - Networks**: 1 Analyzed
  - Threats**: 0
  - Apps**: 45 Analyzed
  - Threats**: 0
- Refresh**: A circular refresh icon.
- Configuration**: A button with a square icon and an arrow, highlighted with an orange border.

Below the summary cards, there are two main content areas:

- Heat Event Log**: A table with columns for 'Email' and 'Incident Summary'. One entry is visible: "8-5394-4f99-a6b6-cf224d61... Detected Sideloaded App(s) while connected to De Beuk. Responded with Silent Alert."
- Most Attacked User/Devices**: A table with columns for 'User Email', 'Threat Count', and 'Severity'. One entry is visible: "14fe51f8-5394-4f99-a6b6-cf224d618461-gdpr-user@... 1". A horizontal orange bar is present in the 'Severity' column.

At the bottom of the dashboard, there are sections for 'Management' and 'MTD Operational Mode'.



## Direct access - No Configuration Click and Access to the Tenant

Trellix | EPO -> Queries & Reports

FAVORITES | Protection Workspace | Product Deployment | Dashboards | System Tree | Policy Catalog | Tag Catalog | Trellix Mobile Security | Trellix Insights

### Queries & Reports

Query Builder: 1 Result Type | 2 Chart | 3 Columns | 4 Filter

What do you want to query for?

Datasource Type: ePO

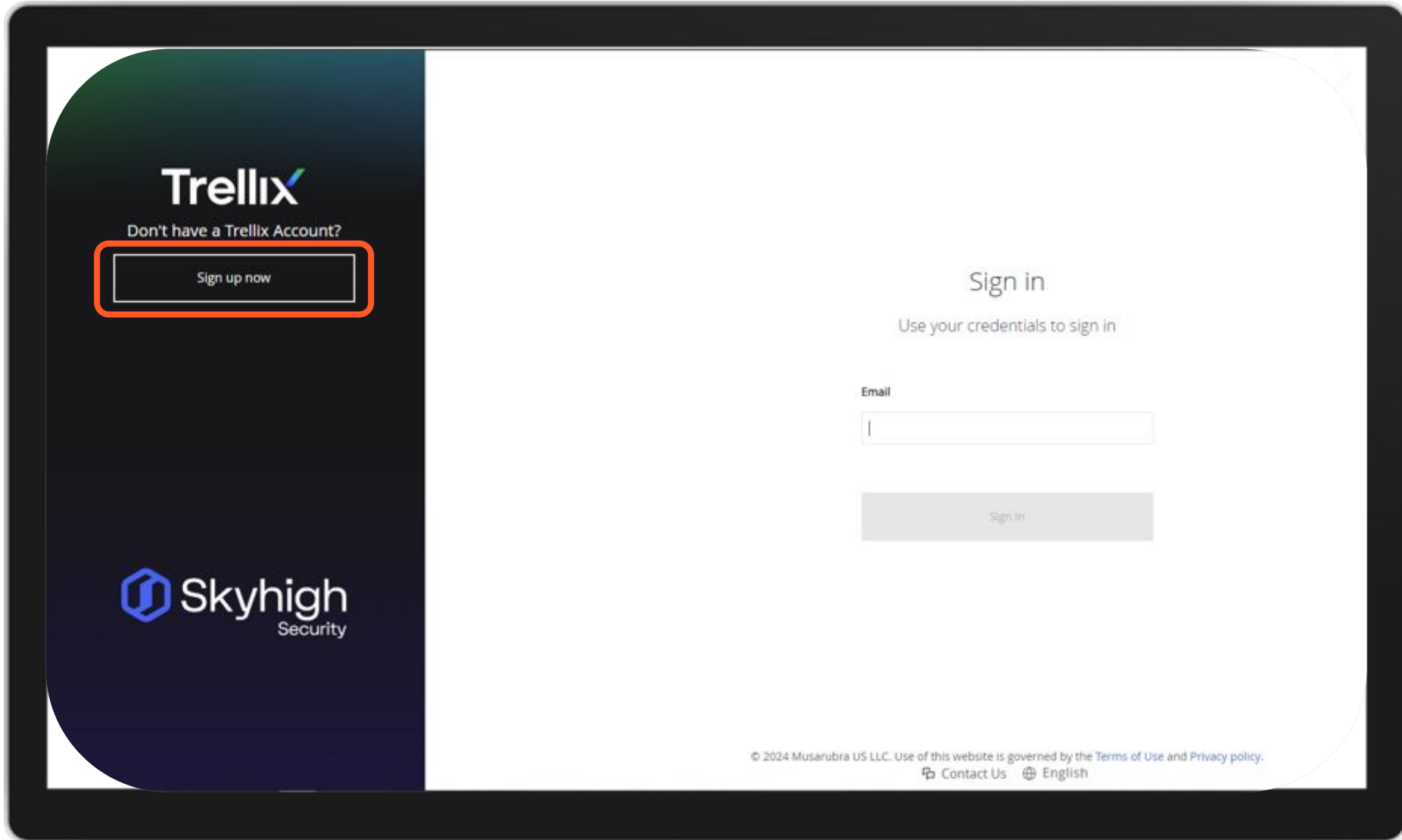
Feature Group: Trellix Mobile Security

Result Types:

- Trellix Mobile Devices  
Table to store Trellix Mobile devices.
- Trellix Mobile Events  
List of Trellix Mobile Threat Events.



Request your tenant at  
<https://xconsole.trellix.com/>



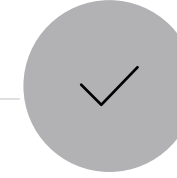
# Recommended Next Steps



Understand why  
mobile cyber  
hygiene is key

## Vet your Mobile App

Receive a personalized app  
analysis of YOUR mobile app or a  
mobile app of your choice



## Test For Yourself

Pilot the solution internally to  
validate enterprise fit