



# Mobile App Threat Killchain

Mobile app threats are prevalent and can be difficult to detect with heavy obfuscation. The most common examples are sideloaded and unsecured apps, but there are many forms of app threats that can pose serious danger to both the device user and their employer.

Lookout defends mobile users against phishing, app, device, and network-based attacks. By protecting users, Lookout secures the corporate data accessed from those devices from malicious actors. In the case of phishing attacks, Lookout intervenes immediately to reduce risk and mitigate data loss.

**1** END USER SIDE LOADS APP (NO JAILBREAK/ROOTING NEEDED)

Sideload

Unsecure App

**51%**

More than half of global app downloads are from 300+ alternative app stores<sup>1</sup>

**2** END USER ATTEMPTS TO OPEN SIDELOADED OR MALICIOUS APPS

**489**

Fake mobile banking apps discovered in 2018<sup>2</sup>

**WITH LOOKOUT**

Lookout alerts and blocks the app when user attempts to trust 3rd party certificate

WITHOUT LOOKOUT

**WITH LOOKOUT**

Lookout alerts and blocks the app as soon as it has been identified as malicious or is blacklisted in admin policies

**3**

MALICIOUS APP CAN LEAD TO A OR B

A

B

APP ACTS AS SURVEILLANCEWARE AND DISPLAYS OVERLAY AD WHEN IT RECOGNIZES APP LOGIN

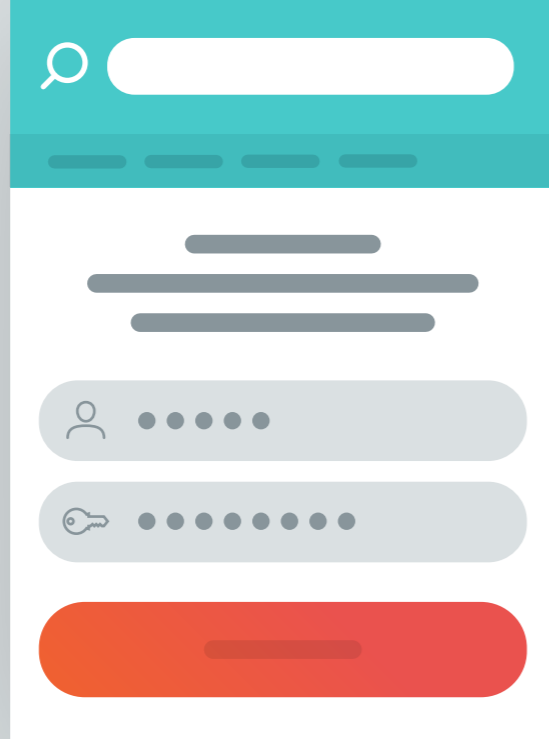
APP PERMISSIONS ENABLE PERSONAL INFO TO BE EXFILTRATED FROM THE DEVICE

**Bancamar (Marcher)**

Malware family designed to phish a victim's login credentials

**SpyNote**

Commercially available spyware that can be leveraged by individual actors or nation states

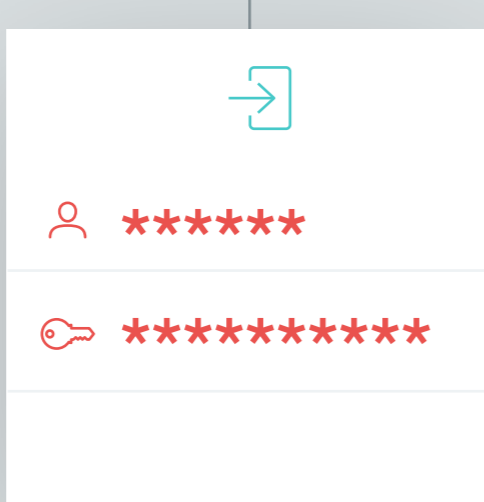


4A

ATTACKER NOW HAS LOGIN CREDENTIALS AND ACCESS TO ACCOUNTS

**6,700+**

Lookout-discovered samples of Bancamar in the first half of 2019

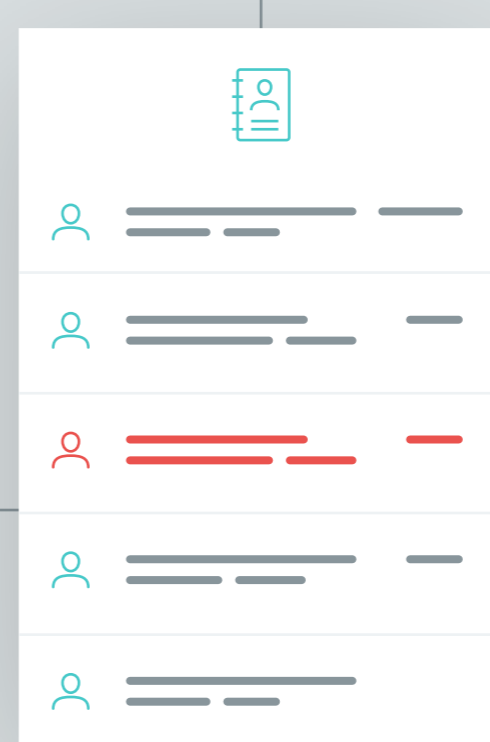


4B

IF DEVICE IS USED FOR WORK, THE ATTACKER CAN NOW ACCESS CORPORATE DATA DUE TO SSO

**5,000+**

Lookout-discovered of SpyNote identified by Lookout since June 2016



**5**

ATTACKER IMPERSONATES, TRACKS, OR SPIES ON THE VICTIM, LEADING TO SENSITIVE CORPORATE DATA LEAKAGE

Research Data

Emails

PII

Financial Data

Corporate Data

## DATA BREACH COST PER RECORD



To learn more, visit [lookout.com](https://lookout.com)



<sup>1</sup> <http://www.businessofapps.com/guide/app-stores-list/>

<sup>2</sup> <https://www.darkreading.com/risk/cyberthreats-against-financial-services-up-56-/d/d-id/1335574>