

AGENDA



1

Outside your Perimeter

2

New Realities need New Protections

- Smartphones & Tablets
- Laptops
- Cloud Applications

Importance of Zero-Day threat prevention

4

Consolidated Threat Intelligence

OUTSIDE YOUR PERIMETER



Your IT architecture has evolved - Your security must evolve as well



Business Yesterday



Business Today



BEYOND YOUR PERIMETER ...

Securing the perimeter was simple and highly effective.

Attackers have shifted their focus to easier targets.

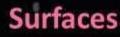




- Less security outside the perimeter
- Mixture of "personal" and "business" on the same device
- Employees act more carefree when not in the office
- Hackers find it easier to exploit these weaknesses

Common attack vectors used

by attackers







E-Mail



File Share



Malicious Network



Man in the Middle



Account Take Over

LAPTOPS



SMARTPHONES & TABLETS



E-Mail



File Share



Malicious Network



Man in the Middle

Web

Web



Phishing

Phishing



Malicious Application



Account Take Over



CLOUD APPLICATIONS



E-Mail



File Share



Phishing



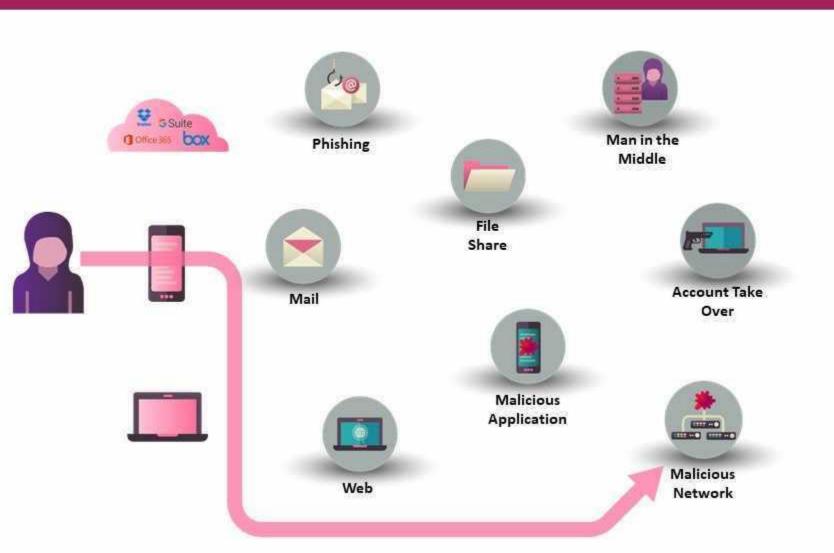
Malicious Application



Account Take Over

Step1: Set the trap

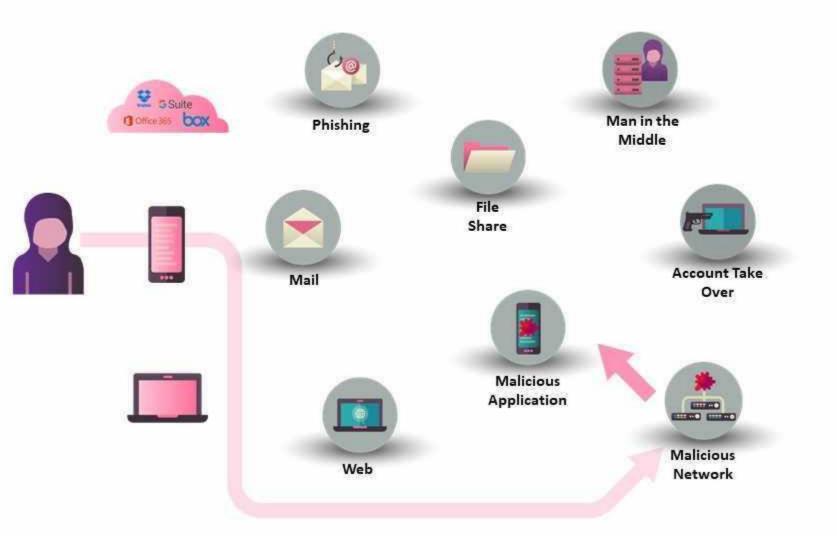
Victim connects to a "friendly" hotspot; Or..





Step2: Infect your device and/or tap your network

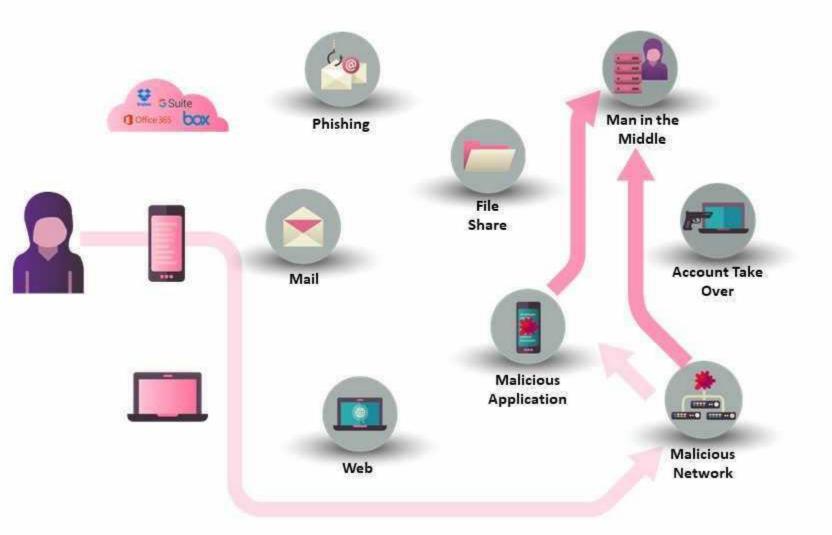
Victim is tricked to download a "legitimate" app in order to take control over the phone

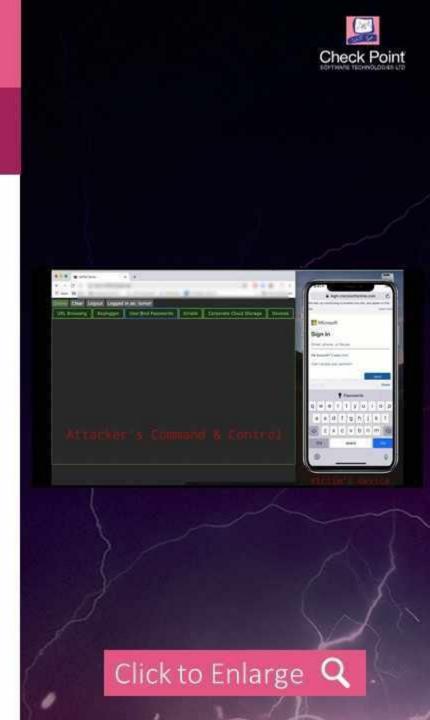




Step 3: Collect Data

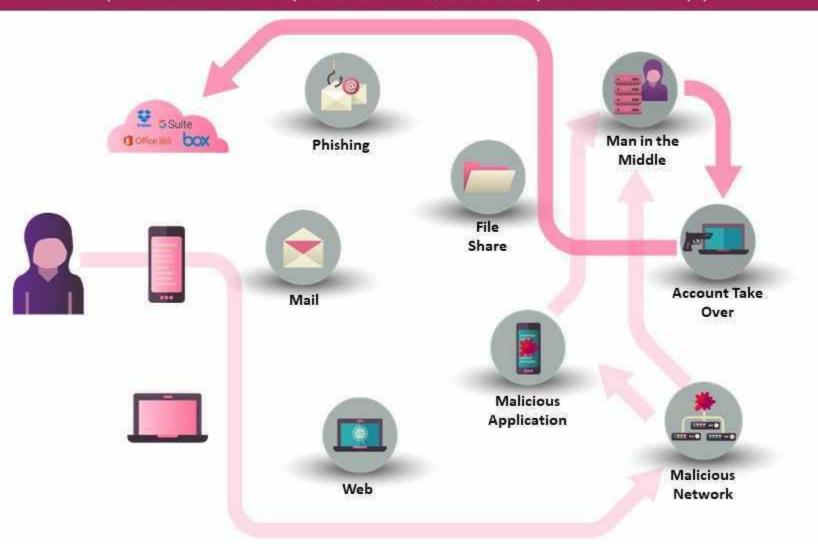
Attacker gets full remote control over the device, steals passwords, mail, identify the location and use the recorder and camera per need





Step 4: Create devastating damage

Attacker takes over your accounts, he has unlimited opportunities, steal private and corporate data, access your cloud apps







Step 1: Phishing scam for Account Takeover

Phishing mail requesting to update your 0365 credentials



Microsoft Office

Password Expiration

To reply@noreply.com

'MICROSOFT OFFICE 365

Good Afternoon,

We sent this E-mail to notify you that your Password is about to expire, Immediately your password expires, your E-mail would be locked.

To continue using your mailbox as usual, Click here

Email sent using Optus Webmail

Malicious Network



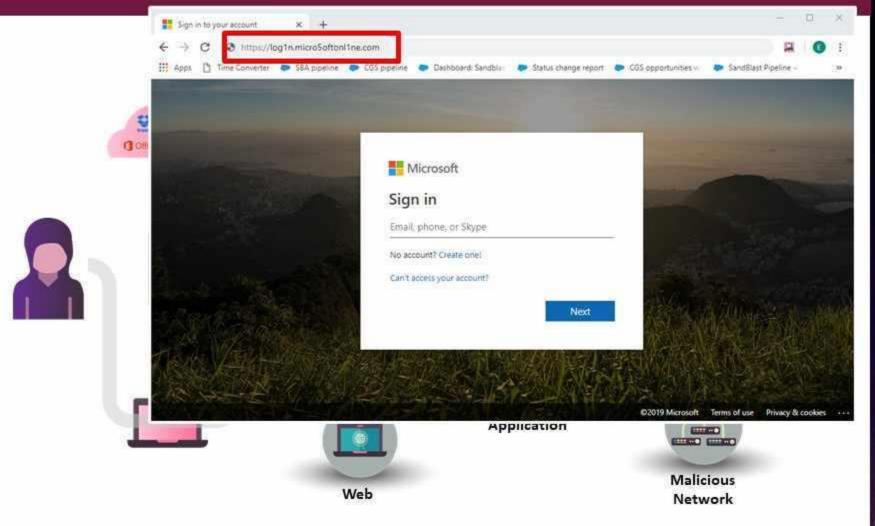


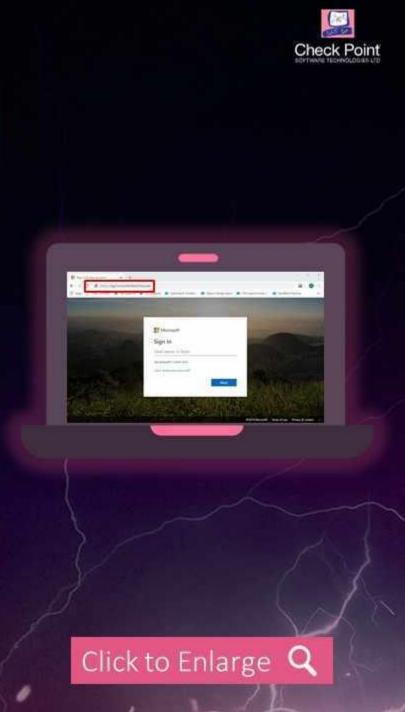




Step 1: Phishing scam for Account Takeover

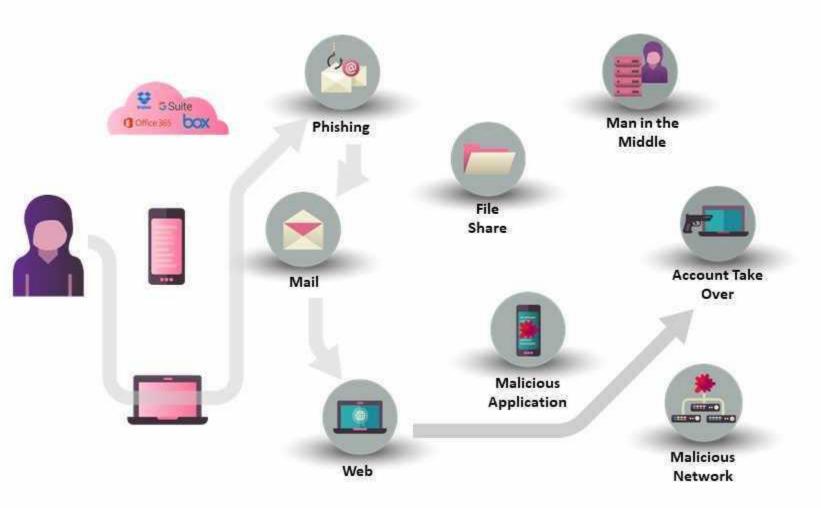
Clicking the link leads to a malicious phishing web site





Step 1: Phishing scam for Account Takeover

Victim is tricked to use his credential and account take over succeeded





Step 2: Shifting to a whaling attack

Attacker uses the stolen account and send wire transfer request

for the CFO, usir



Richard Brown

Faster Payment









Hope your day is going on well, I need you to send out a same day UK to UK faster payment immediately, Kindly email me the required details you will need to send out the payment.

Urgent - Messine (HTM)

I will appreciate a swift email response.

Kind regards, Richard



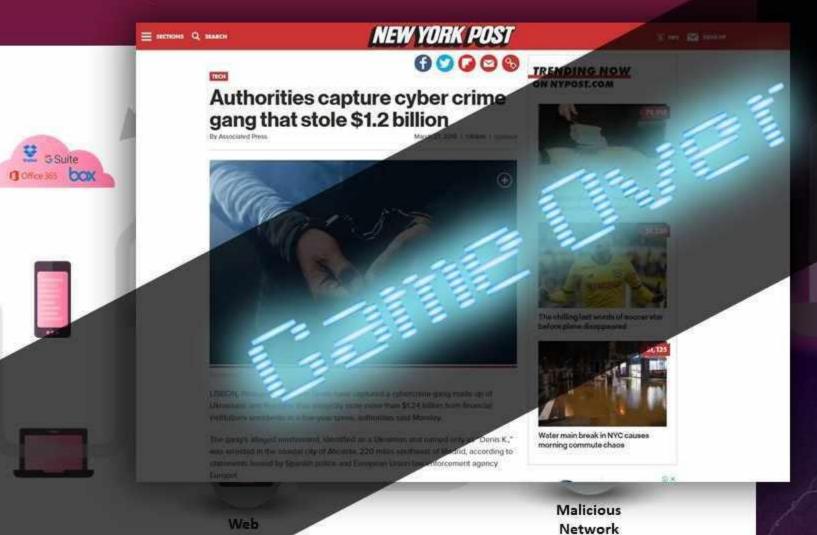
Malicious Network





Step 2: Shifting to a whaling attack

Wire transfer completed



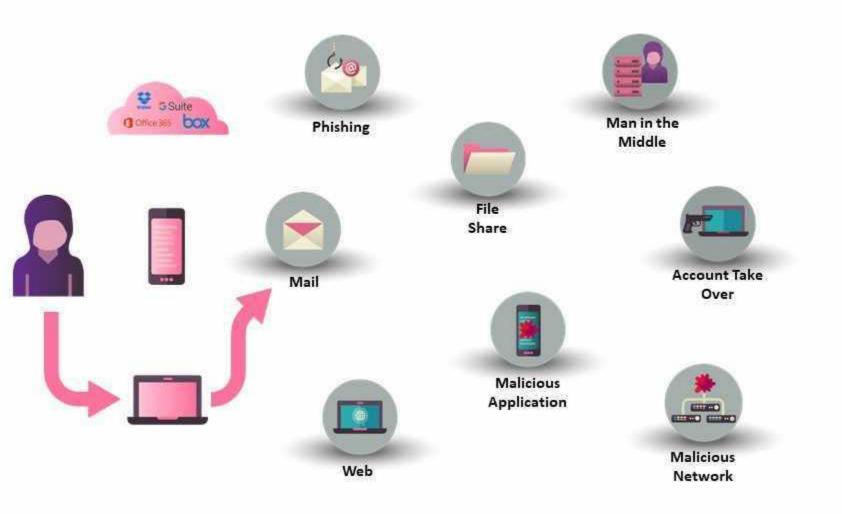




Click to Enlarge Q

Step 3: Data Theft

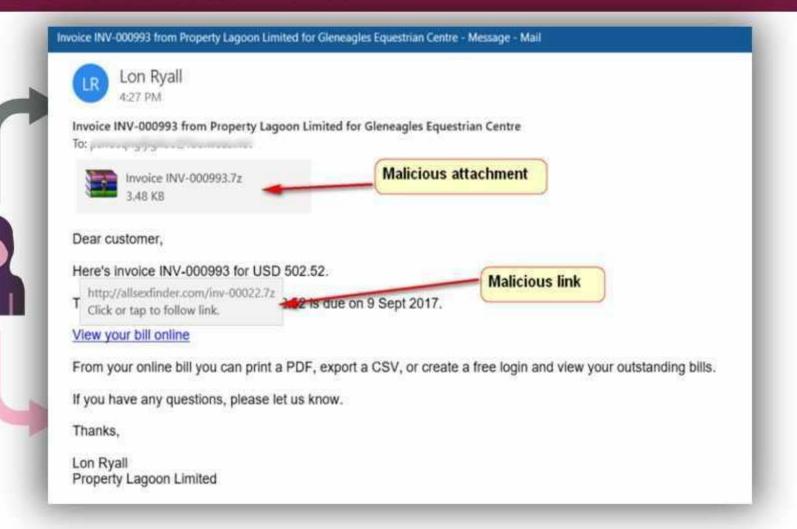
Attacker decides to continue and drives a data theft targeted attack

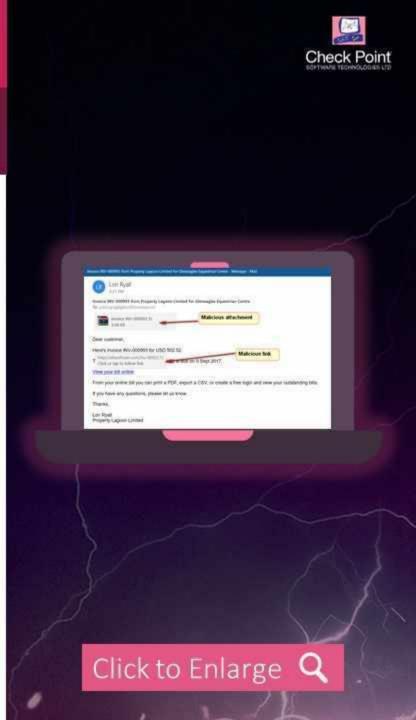




Step 3: Data Theft

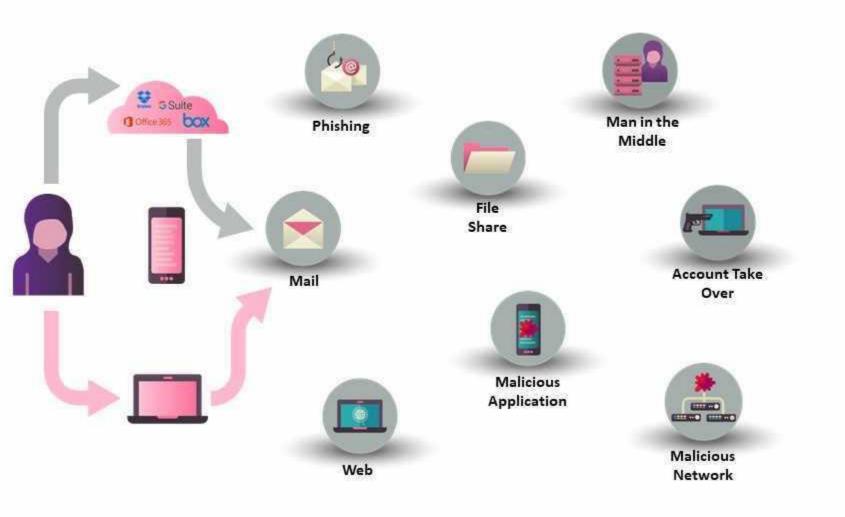
Using the stolen account he sends an "innocent" mail, embedded with a malicious attachment or link

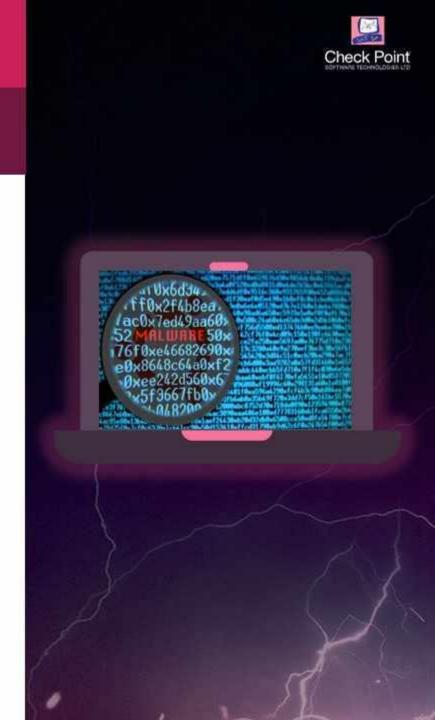




Step 3: Data Theft

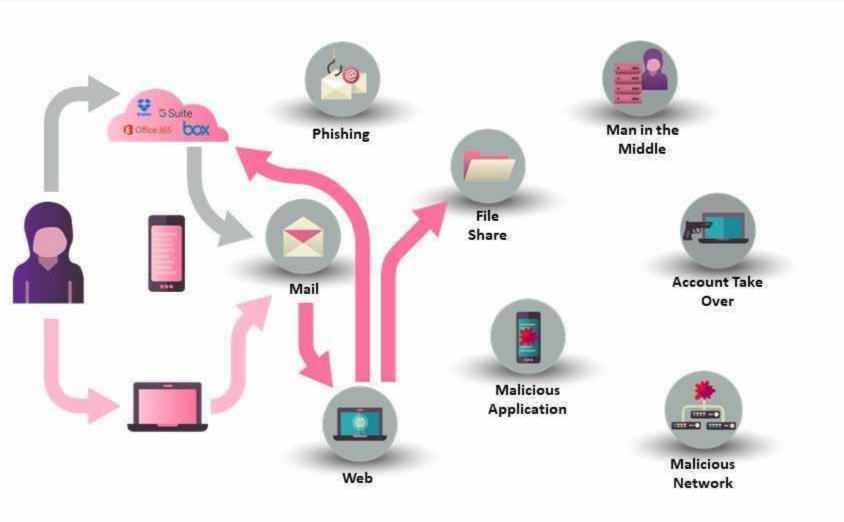
Victim's laptop is being infected by malicious malware and the attack accelerates





Step 3: Data Theft

The malware uses file shares to infect more laptops via lateral movement





Step 3: Data Theft

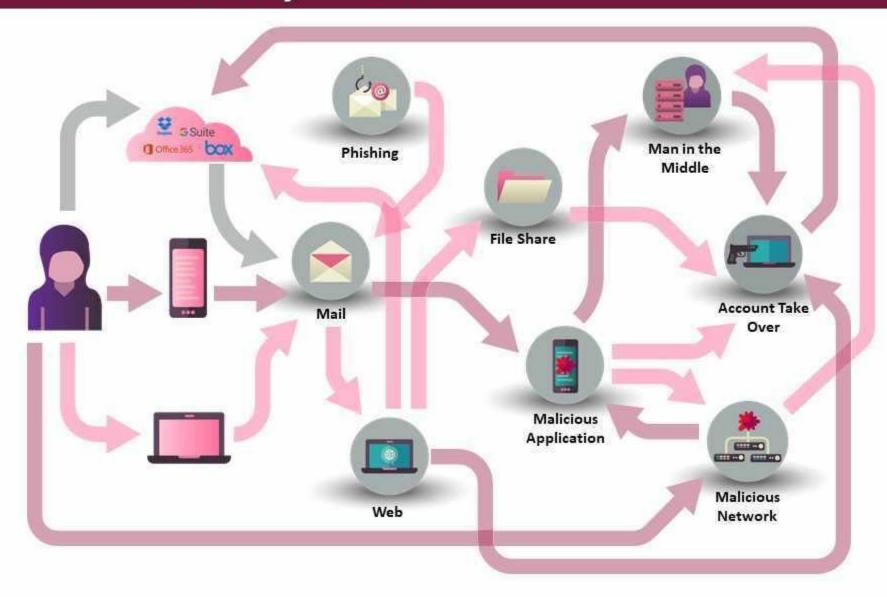




CONNECTING THE DOTS



Unlimited paths to take control of your assets



Traditional Protections are

insufficient





Signatures and Reputation do not protect against zero-day attacks

- Zero-day Viruses Only 45% of malware attacks can be detected by AV* (source: theguardian.com)
- ▼ Zero-day URLS Recently established Phishing URLs have no reputation
- Zero-day malicious mobile applications

Polymorphic attacks designed to avoid and evade 1st Gen sandboxes



Traditional Protections are

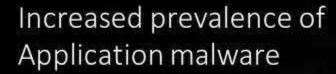




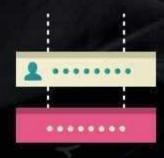
insufficient



78% of devices are running on older O/S with known vulnerabilities



Google Play's app vetting is insufficient; malware also found in AppStore



Attacks use credential theft to drive phishing and whaling attacks

- Employees quick to click and download
- 81% of breaches involve weak or stolen credentials

A Modern Security Paradigm is Needed

- Advanced detection engines that continuously learn and evolve
 - (Dynamic Analysis, Evasion resistant, Machine learning, AI, Big Data)
- Take security decisions in real-time
 - Blocks Zero-day Viruses
 - Blocks malicious URLs with no reputation
 - Blocks malicious apps with no reputation

