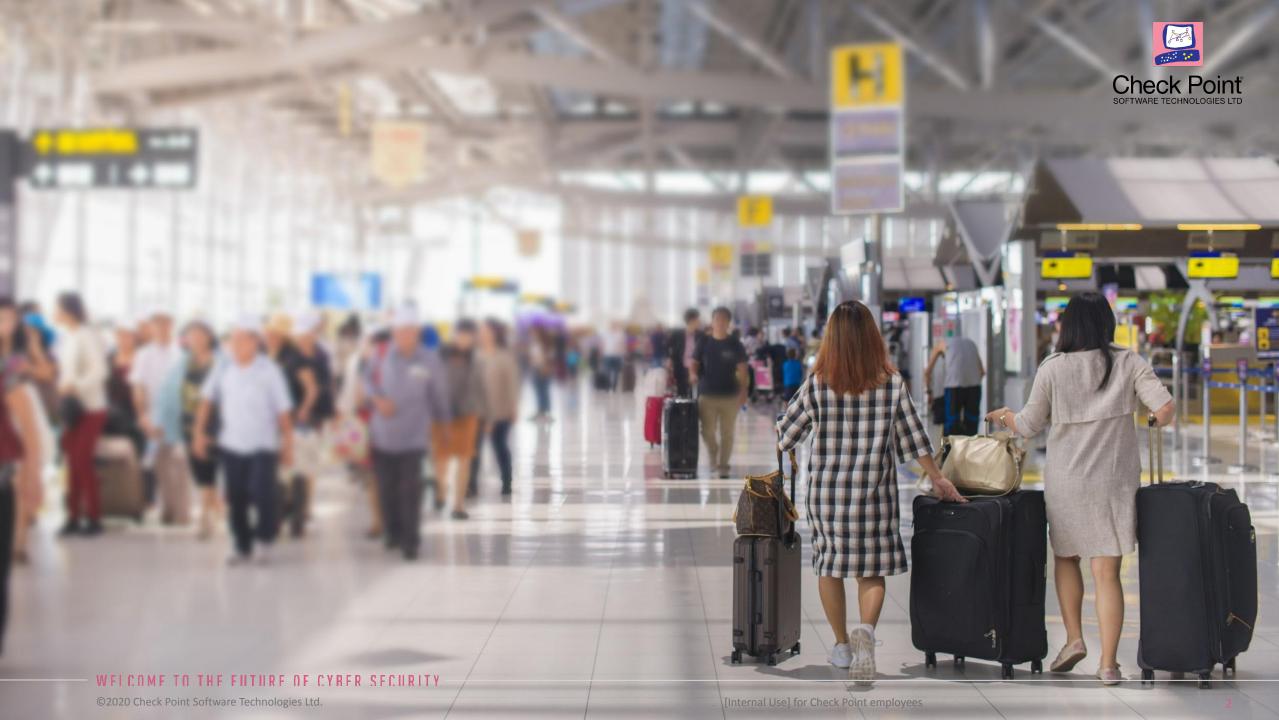


CPX 360

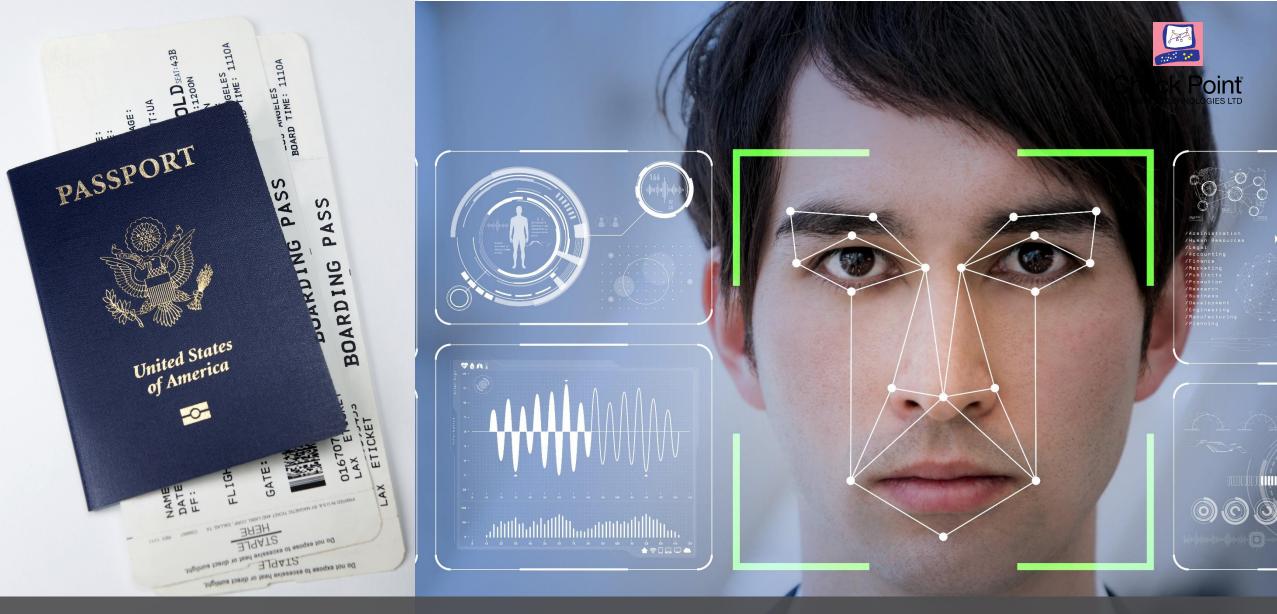
ZEROING-IN TO ZERO TRUST JUDGEMENT DAY 2021

Tomáš Vobruba | Check Point

WELCOME TO THE FUTURE OF CYBER SECURITY







STRICT USER AUTHENTICATION



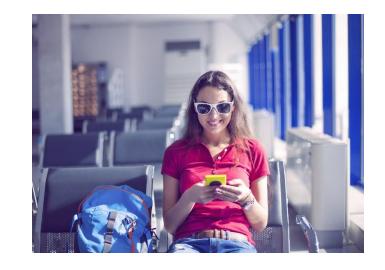


3 CRITICAL OBJECTIVES









ZERO FALSE NEGATIVE

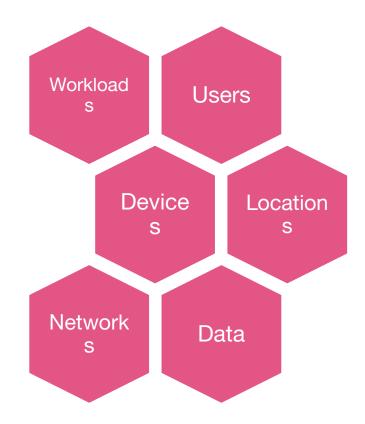
LOW FALSE POSITIVE

SEAMLESS USER EXPIRIENCE

What is Zero Trust



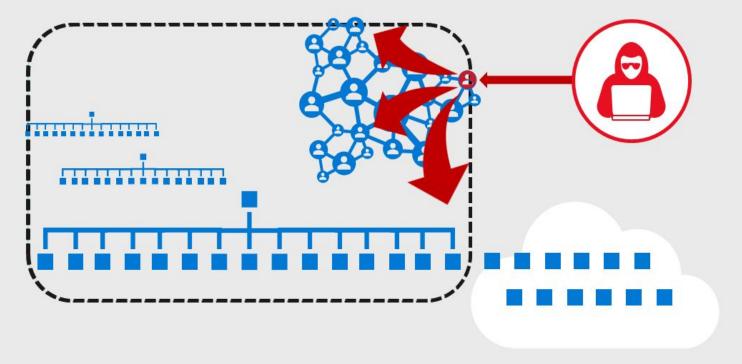
- Implementation of microperimeters
- Visibility into data assets
- Automated Response



https://en.wikipedia.org/wiki/Zero_trust_security_model https://doi.org/10.6028/NIST.SP.800-207

Why are we having a Zero Trust conversation?

Access Control: Keep Assets away from Attackers



1. IT Security is Complex

Many Devices, Users, & Connections

2. "Trusted network" security strategy

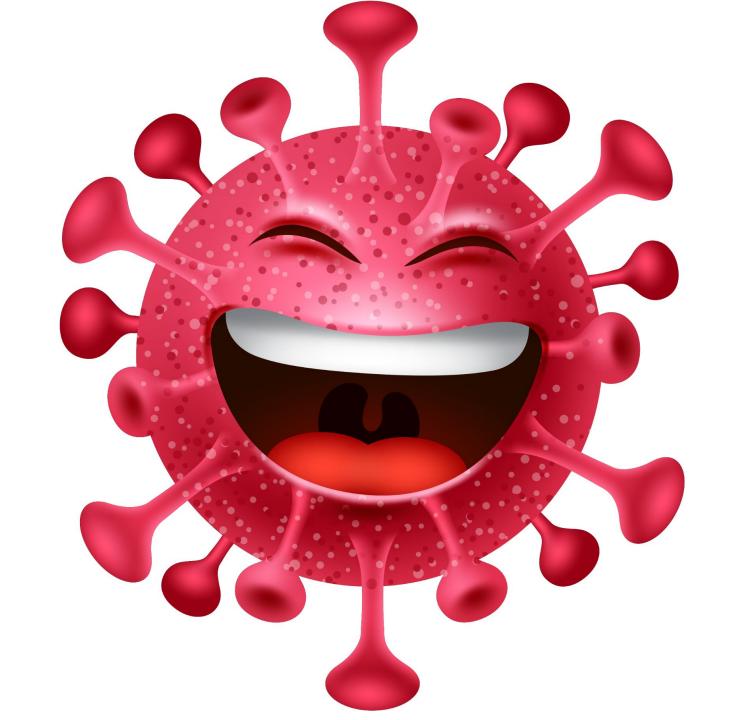
- · Initial attacks were network based
- · Seemingly simple and economical
- Accepted lower security within network

3. Assets increasingly leave network

BYOD, WFH, Mobile, and SaaS

4. Attackers shift to identity attacks

- · Phishing and credential theft
- · Security teams often overwhelmed





Multi-Factor Authentication



Something you have

Something you know

Something you are

Authentication

USER NAME

Confirms users are who they say they are.

Authorization



Gives users permission to access a resource.

CARTA Adaptive Access Protection Architecture Zero trust networking in the form of software defined [access] perimeter Policy projects Adjust Implement posture posture Discover requirements Adaptive access Context and credential assessment Assess risk and compliance Entity/Service/Data adaptation Discover new requirements Continuous Risk/Trust Baseline known Access Assessment usage and entitlements Adjust posture Monitor posture Users Devices Assess risk/Test policy Apps Monitor usage compliance change Actions Data Analyze, manage and report usage Detect exceptions; prioritize risk Access Investigate and respond to Contain/Mitigate risk exceptions Manage usage Verify usage Gartner. Compliance

Source: Gartner (December 2018)



ABSOLUTE ZERO TRUST SECURITY 7 PRINCIPLES



COMPLETE

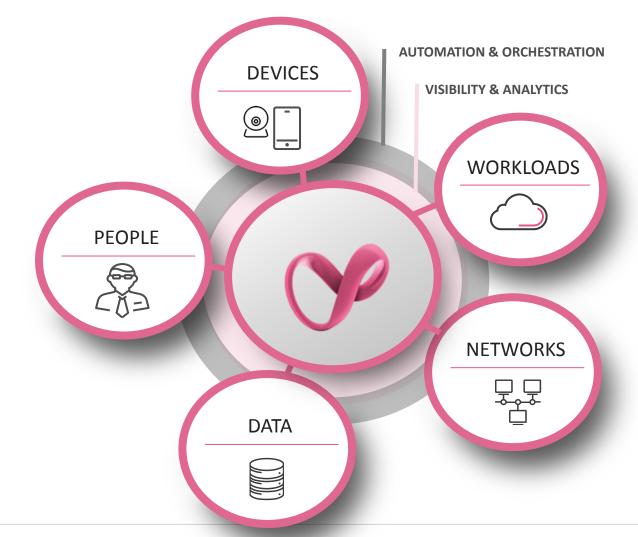
Supports all of the Zero Trust principles

2 EFFICIENT

Centrally managed using a single console and a unified policy

PREVENTIVE

Focused on threat prevention and protects from zero-day attacks



WELCOME TO THE FILLIRE OF CYRER SECURITY

ZERO-TRUST PRINCIPLES





Always Verify

Authenticate and Authorize from trusted users & devices

Least Privileges

Minimize user access to applications & data

Expect Breach

Minimize attack surface & prevent lateral movements

Identity

Authentication Authorization Accounting

Endpoints

Threat protection Compliance

Applications

Least Privilege Conditional access

Networks

Lateral movements M-Segmentation

Workloads

Compliance Anomalies

Data

Classification Authorization

Monitor

Security Posture Improvements

Architecting Microperimeters

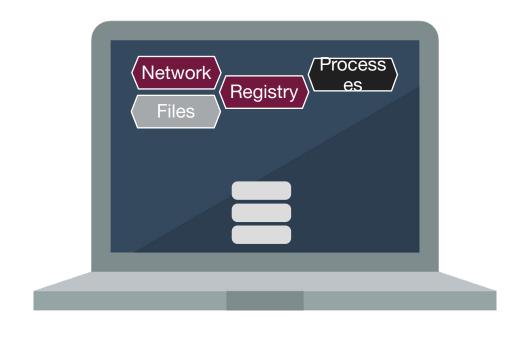




Cloud

WELCOME TO THE FUTURE OF CYNER SECURITY

Monitoring (@ the microperimeter)

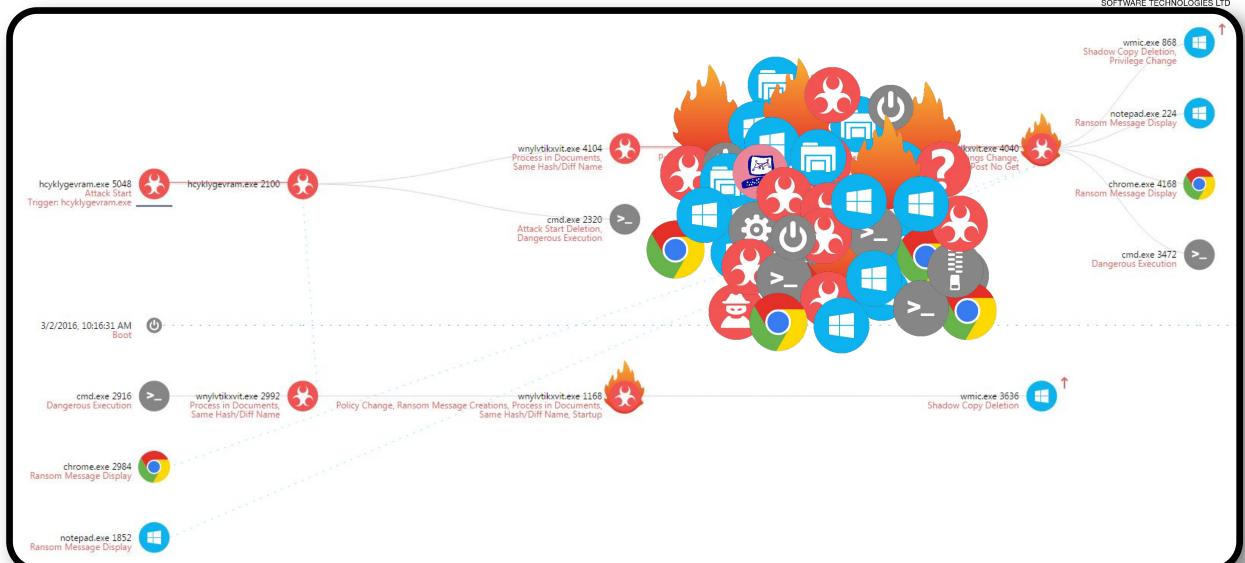




Monitoring (@ the microperimeter)



Check Point



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AUTO-SEGMENTATION Check Point AUTO-GENERATED POLICY FOR EVERY DEVICE/Application





ZERO TRUST PEOPLE USER AWARE ACCESS CONTROL AS A SERVICE

















CRM



What Microsoft Sees:

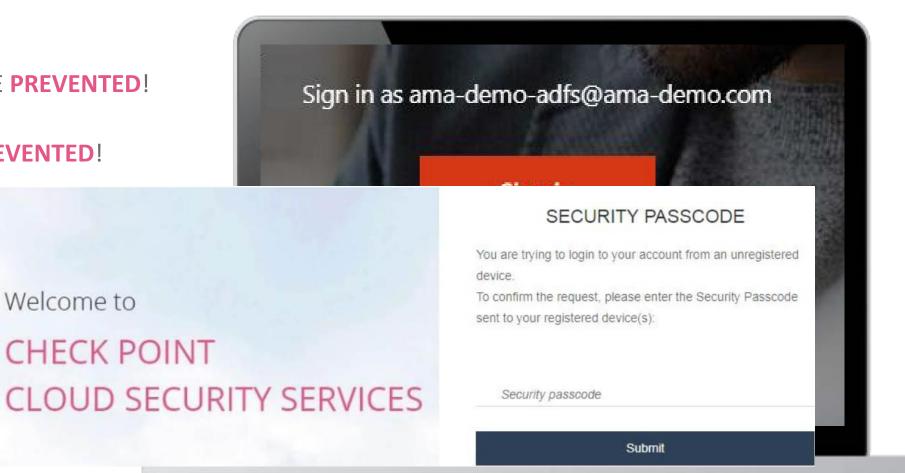
0h #\$%@! 2 Out of 18 Million Across Most of the Corporate World Have No Phish Protection.

SEAMLESS USER EXPIRIENCE



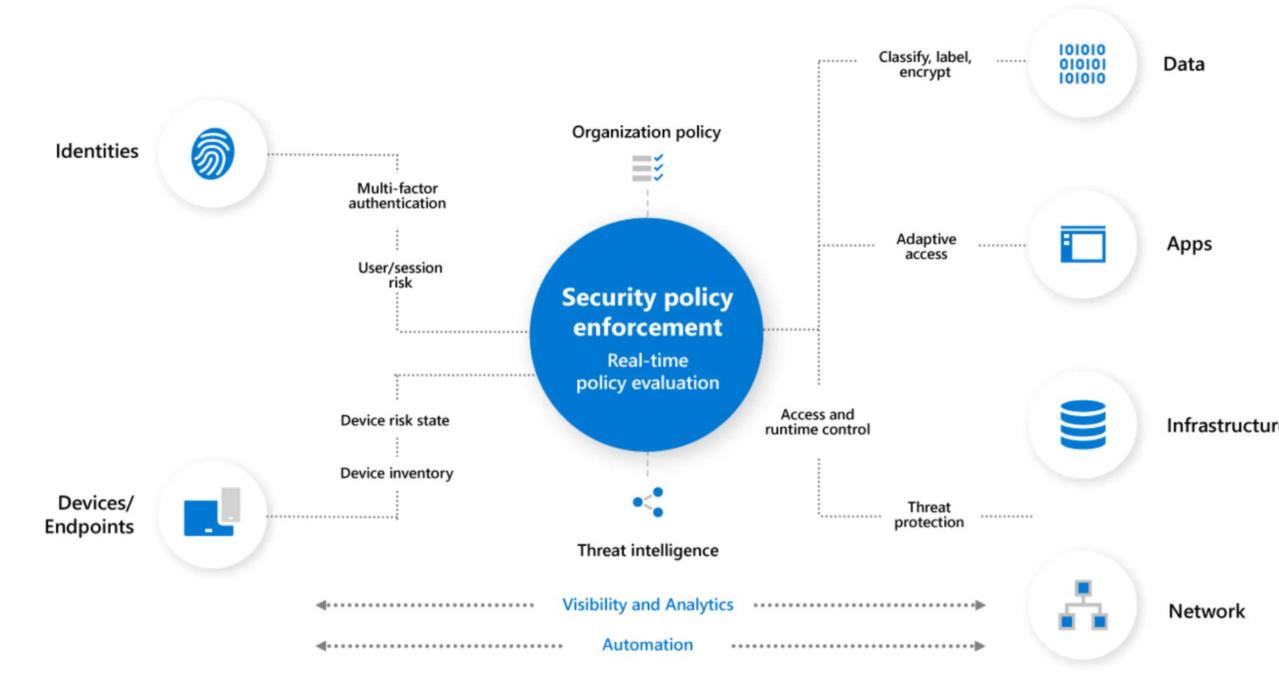
ZERO-DAY PHISHING SITE PREVENTED!

ACCOUNT TAKEOVER PREVENTED!



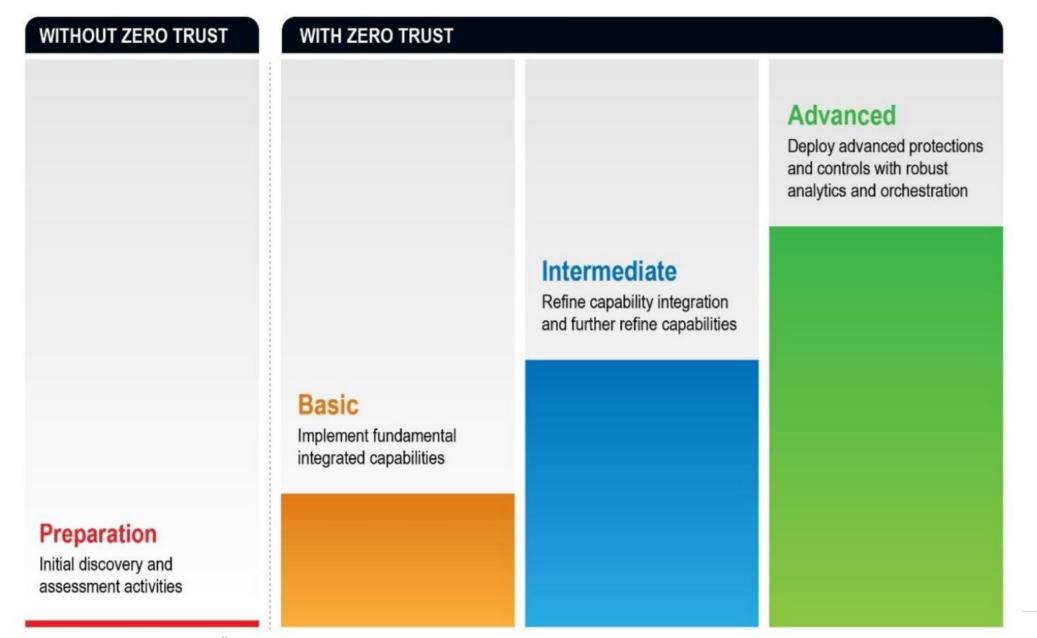
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Welcome to



ZERO TRUST MATURITY





Zero Trust is an Essential Strategy

Implementation should be practical and easy to consume

You need proper tools

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Summary



THANK YOU

CPX 360

WELCOME TO THE FUTURE OF CYBER SECURITY