

SANDBLAST 2020

A quantum leap in threat prevention

Eytan Segal, Head of Product Management

WELCOME TO THE FUTURE OF CYBER SECURITY

CPX 360

Can you detect if your food is poisoned?



Can you detect if your **food** is poisoned?

ZERO DAY POISON

Iocane Powder

- Odorless
- Tasteless
- Dissolves instantly
- Deadly

Can you detect if your **email** is poisoned?

ZERO DAY MALWARE

- Signature-less
- Fileless
- Acts instantly
- Devastating





What was 2019 like?

WELCOME TO THE FUTURE OF CYBER SECURITY -

subuct state veid go()
int x = 3;
nt y = 2;
System.out.printin("tri method go, x; "
labeSwap(x,y);
moreParameters(x,y);
System.out.printin("in method go, y;

public static vold falseSynt (Syntem out printin ("in net int temp - x x - y; y - temp;

Data from Check Point ThreatCloud

42% of malware is unknown 33% increase in mutations

AVERAGE ORGANIZATION, EVERY DAY

42 malwares are downloaded

720 malicious websites are accessed

7,200 vulnerability exploits are attempted

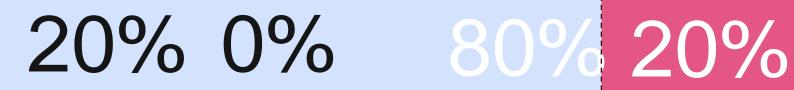




CAN WE MAKE 2020 BETTER?



100



PREVENTION

В

DETECTION

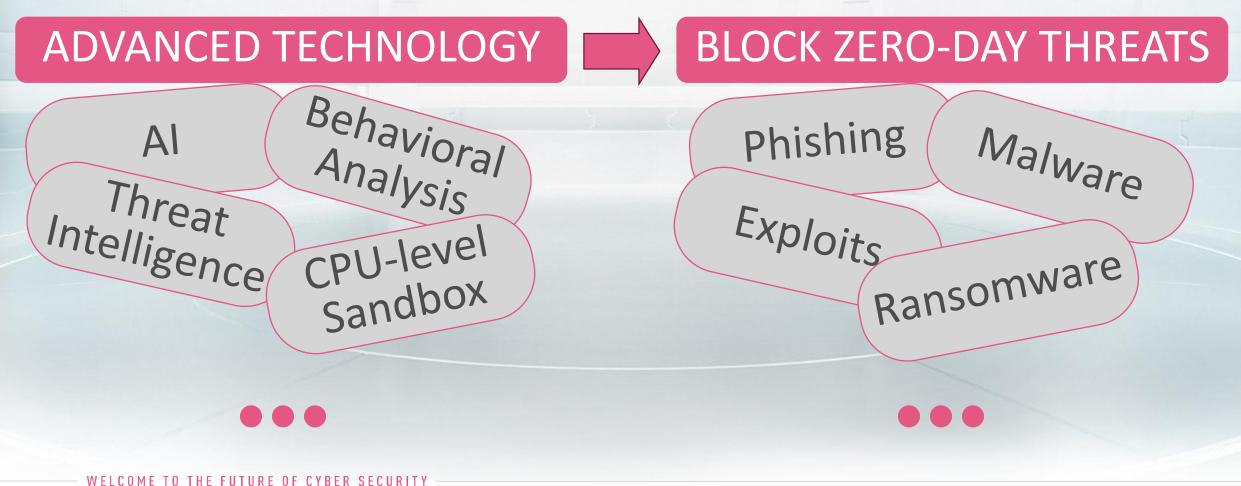
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PREVENTION FIRST

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HARNESS THE POWER OF TECHNOLOGY





WELCOME TO THE FOTORE OF CIDER SECOR



SandBlast PRODUCT FAMILY

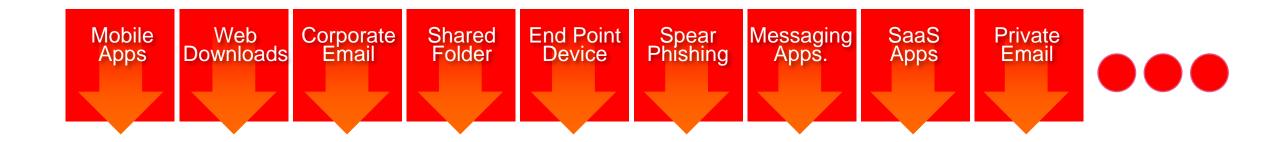
The only solution to prevent zero-days in real time

MOBILE [] CLOUD **NETWORK OAGENT** < API >Web, Mail & Integrate with Endpoint & iOS & SaaS & any application **Data Center** Android laaS Browsers

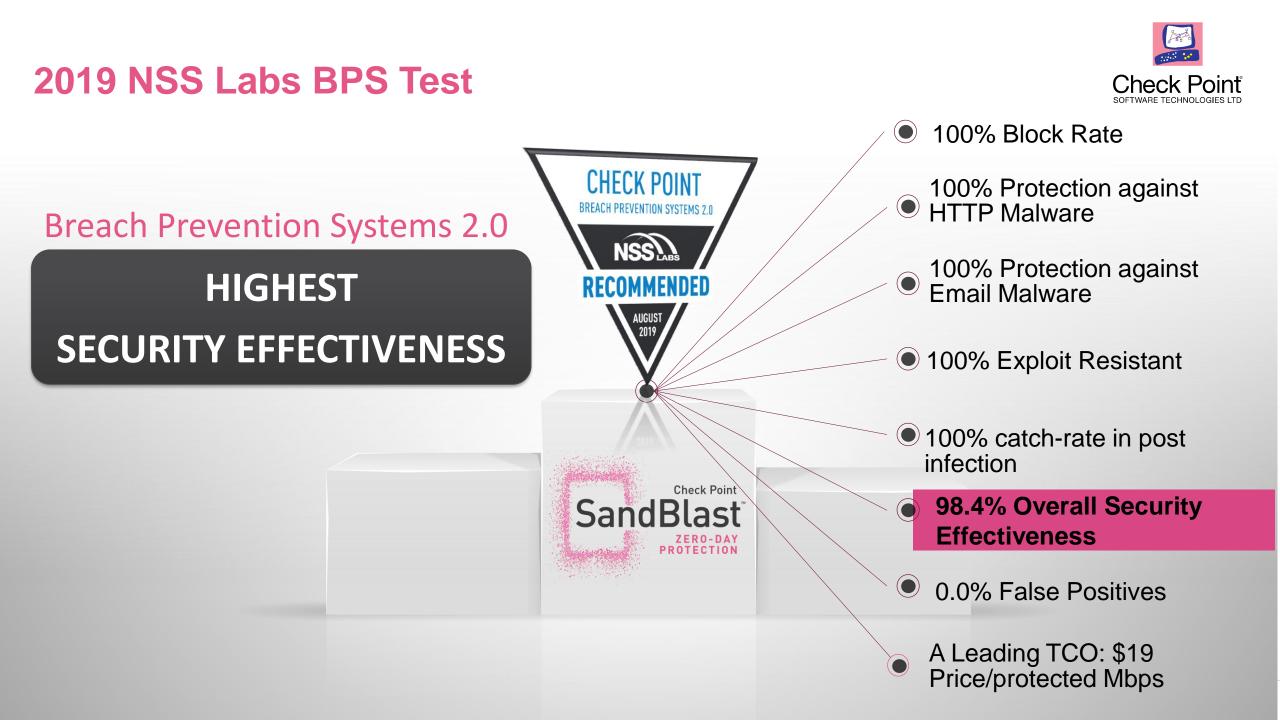




PREVENT ALL ATTACK VECTORS

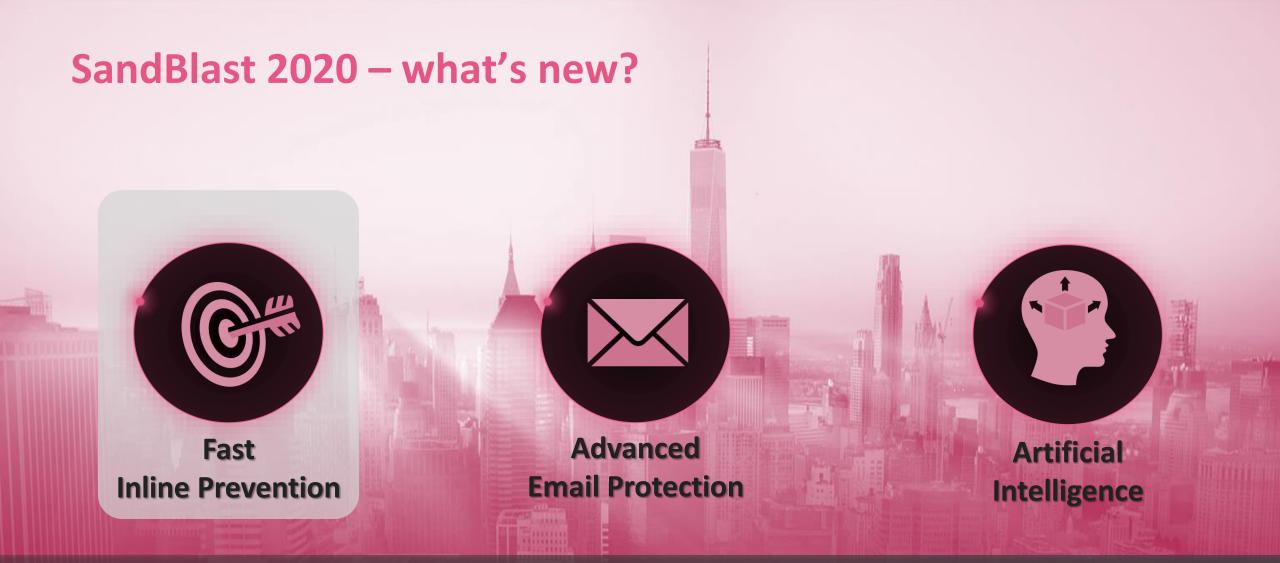


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SandBlast 2020

What's new?



The world's best zero-day prevention. Period.

FASTER THAN EVER!

Fast & accurate verdicts

Practical inline prevention

101001100101010





DOWNLOADING ...

it doesn't mean we should compromise on security!

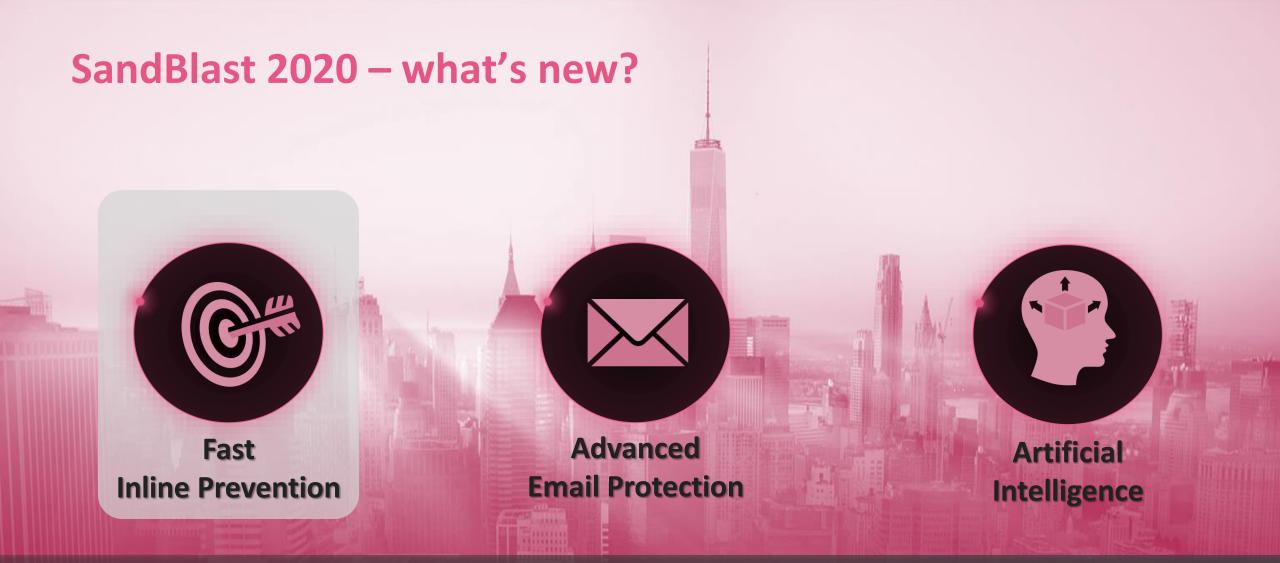
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WELCOME TO THE FUTURE OF CYBER SECURITY



The world's best zero-day prevention. Period.

Protecting your email with Check Point



Protect with CloudGuard SaaS

Office 365

G Suite

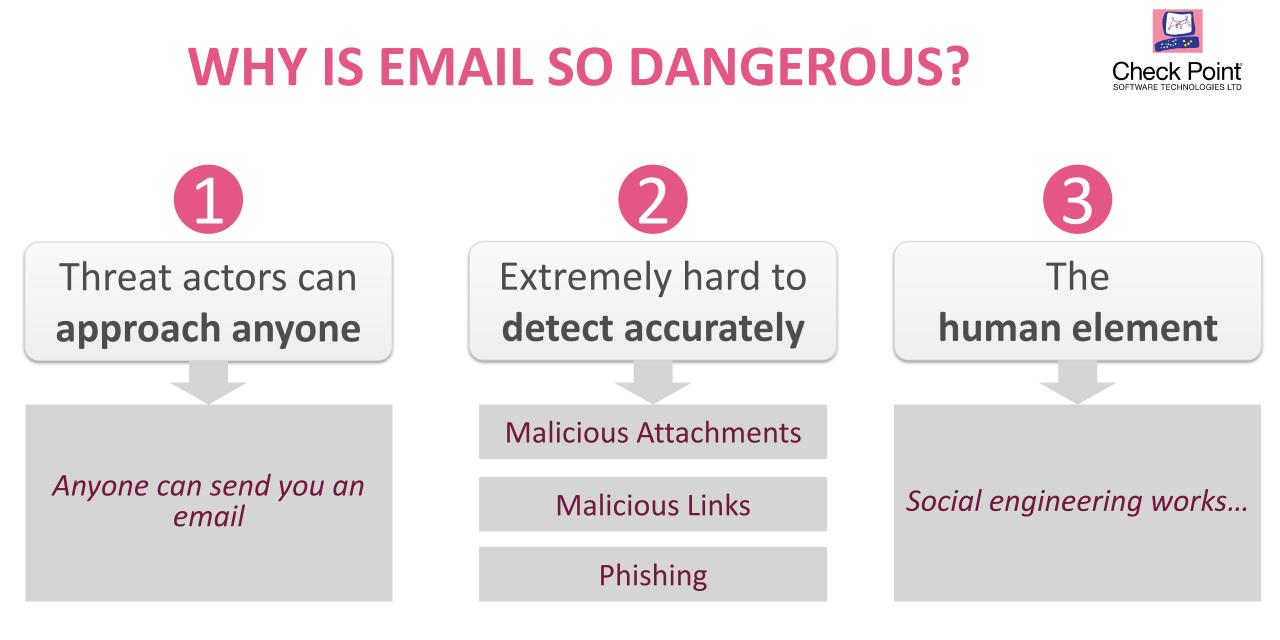
Protect with SandBlast Network



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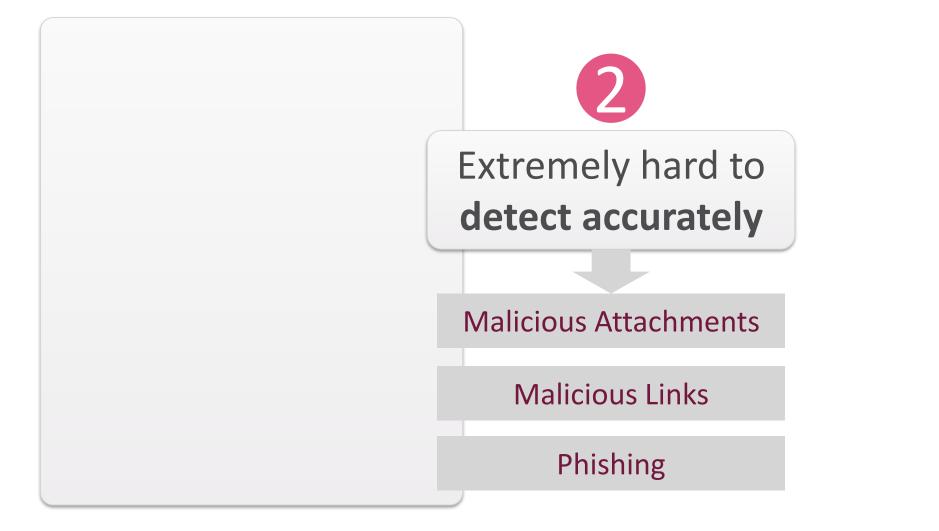
Most successful attacks start with an email





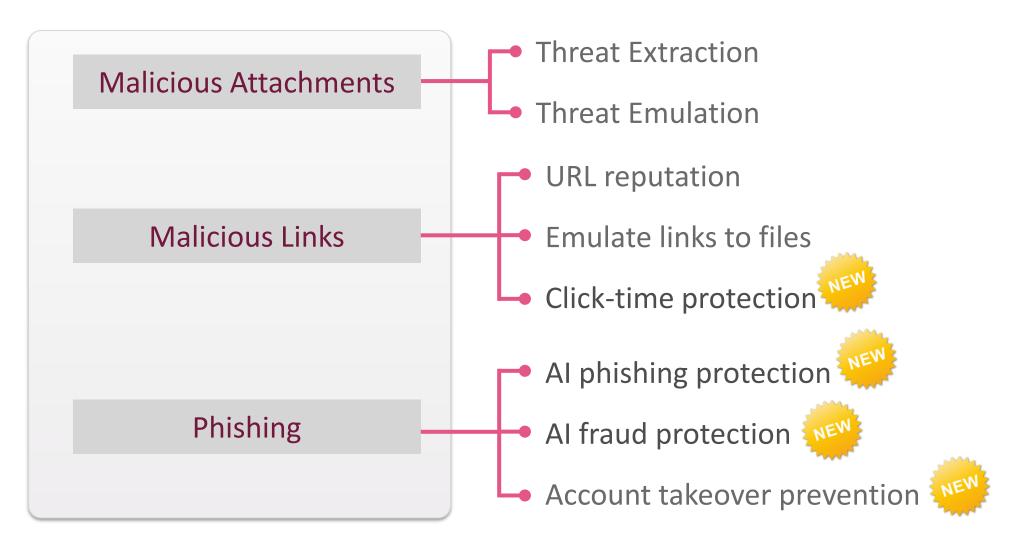
Prevent zero-day email attacks with SandBlast





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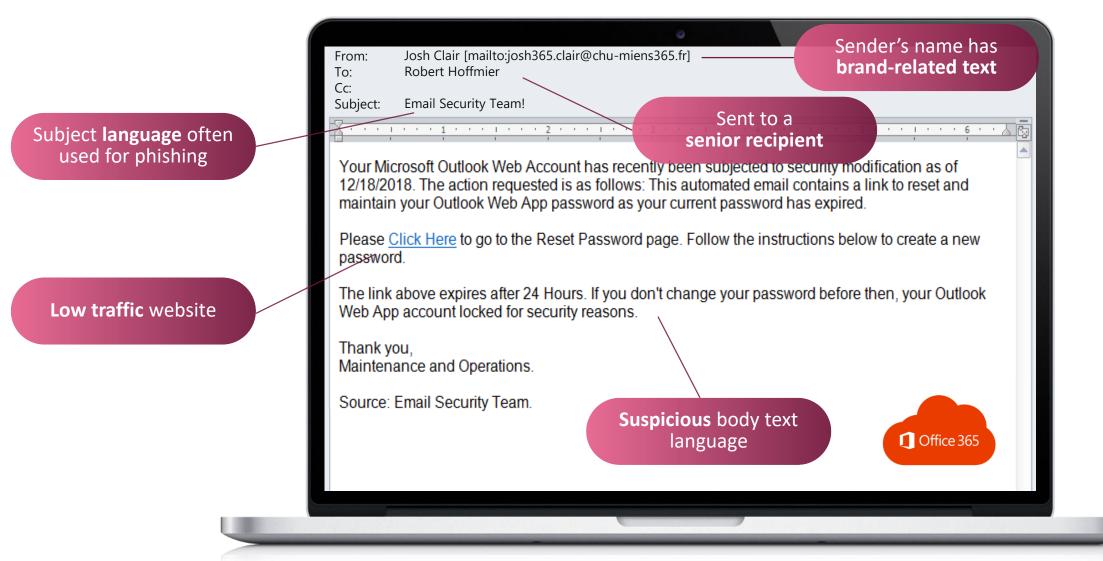
Prevent zero-day email attacks with SandBlast





WHAT'S WRONG WITH THIS MAIL?

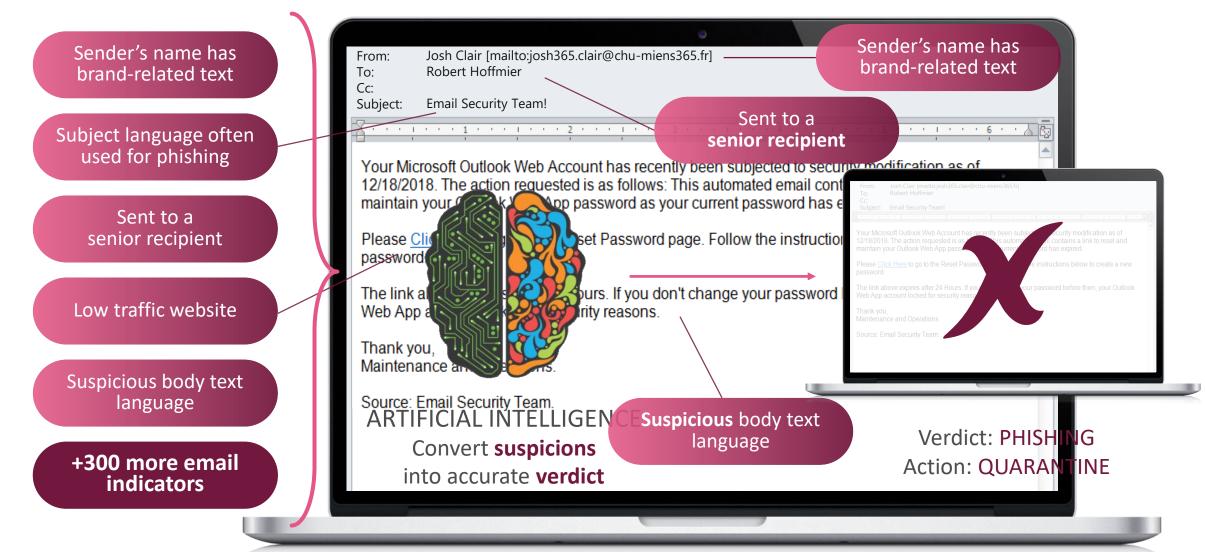




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AI PHISHING PROTECTION









BUSINESS EMAIL COMPROMISE (BEC)

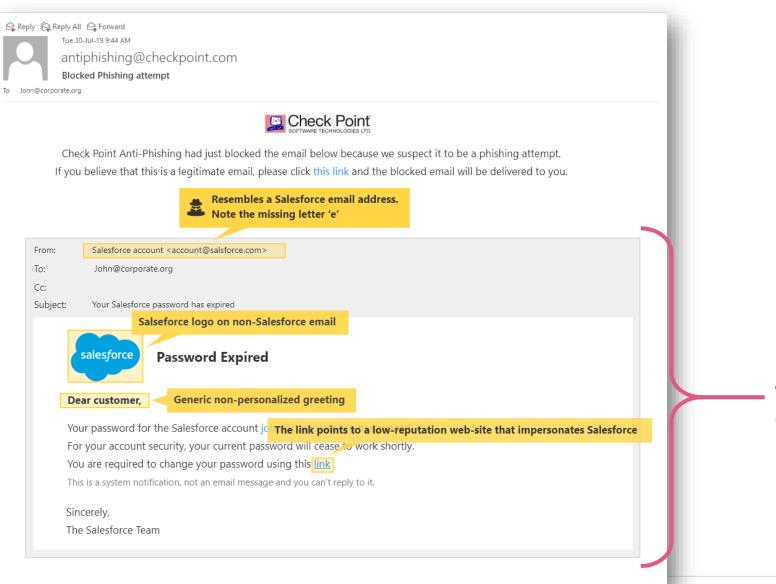


SandBlast AI blocks BEC fraud



	SOFTWARE TECHNOLOGIES
Gil Shwed <gshwed@us.checkpoint.com></gshwed@us.checkpoint.com>	Sense of Urgency
Verbraken Lawyer case	
To	"high priority"
	· 14 · 1 · 15 · 1 · 16 · 1 · 17 · 1 · 18 · 1 · 19 · 1 · 20 · 1 · 21 · 1 · 22 · 1 · 23 · 1 · 24 · 1 · 25 · 1 · 26 · 1 · 27 · 📩
Good morning Ron,	
I need you to manage a high priority operation with my Attorney Laurent Verbra corporation bid acquisition.	ken It's about a prime concercited for the Secrecy
give you more information in next few hours. So, I did choose you to supervise t	
No one else except us must be informed at this time. Regarding this case the Finantial the public announcement is made in the next few weeks.	ancial Markets Authority has warned us that we must communicate only by email
	of our bank accounts in Canada. Also give me another phone number where you
are comfortable to speak with him. As soon as I receive those information, I will share with you further instructions	for today. Financial related
Best regards,	"send me immediately the available cash flow
Gil Shwed	(bank statements) of our bank account"
Sent from my iPhone	
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Educating users on the phishing we block



Check Point

An image of a blocked email







Email Security: OK

Click-time Protection

First layer of security

Second layer of security

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Click-time inspection

From:	Paypal
To:	Bruce Kornpique
Cc	
Subject:	PayPal account verification

Dear Paypal member,

🖂 Message

Please sign in to <u>http://gw.example.com/?id=xghGGr92</u> to verify your PayPal account.

If you are using Internet Explorer please allow ActiveX for scripts to perform all data transfers securely.

Thank you for using PayPal !



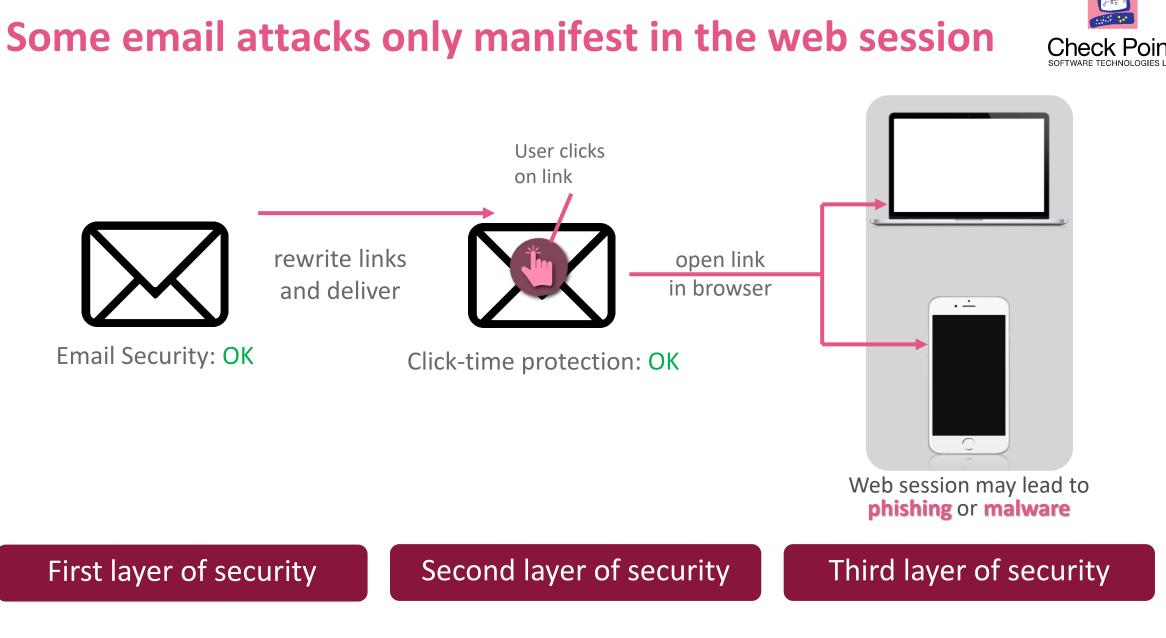


Rewrite URL before mail delivery

Link forced to go through cloud security

Click-time link scanning – even if user is not behind a gateway

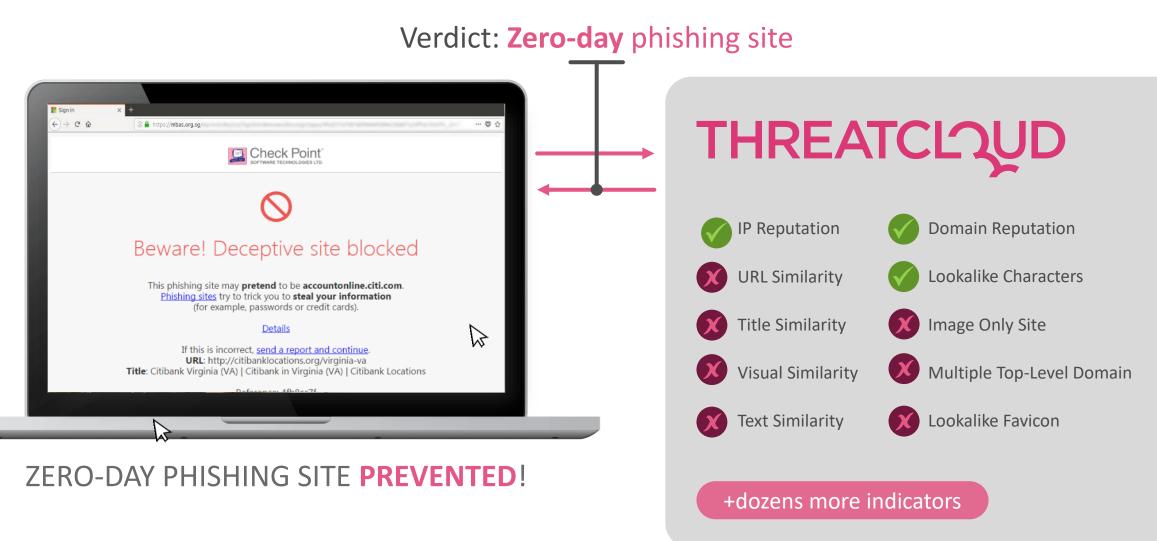




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Zero Phishing: prevent zero-day phishing in browser

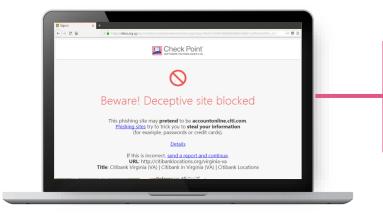




WELCOME TO THE FUTURE OF CYBER SECURITY

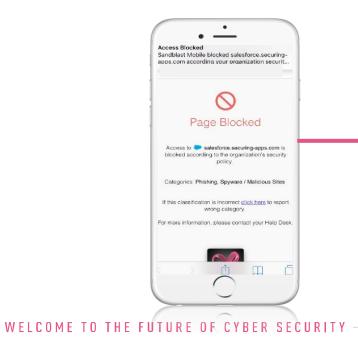
Follows the user - web-session protection





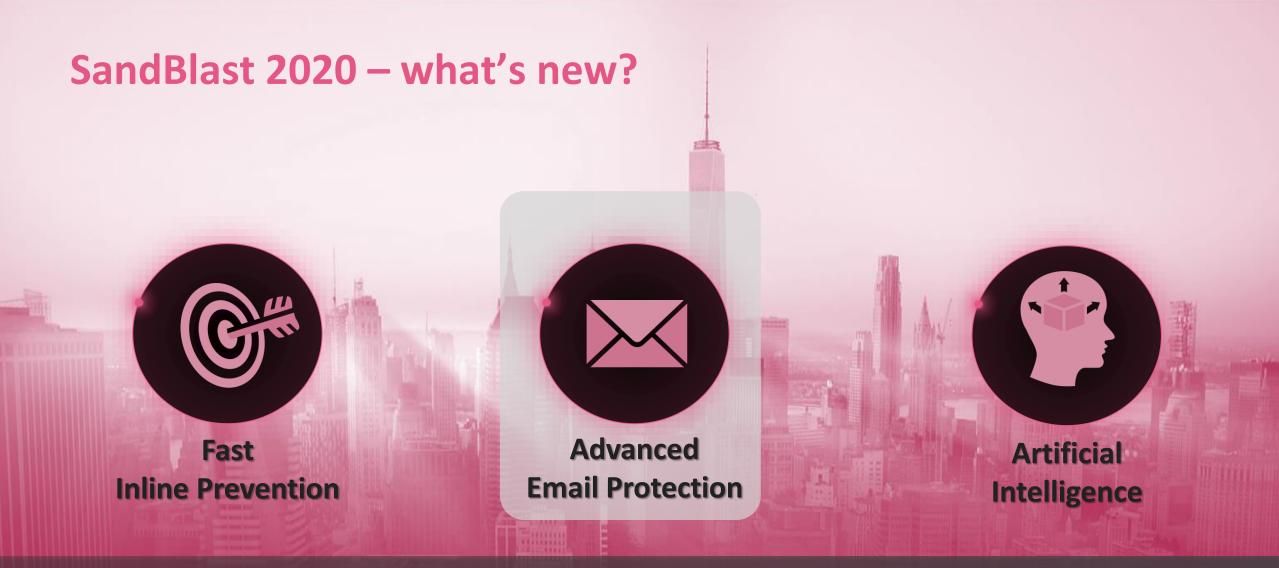
ZERO-DAY PHISHING PREVENTION

ZERO-DAY MALWARE PREVENTION

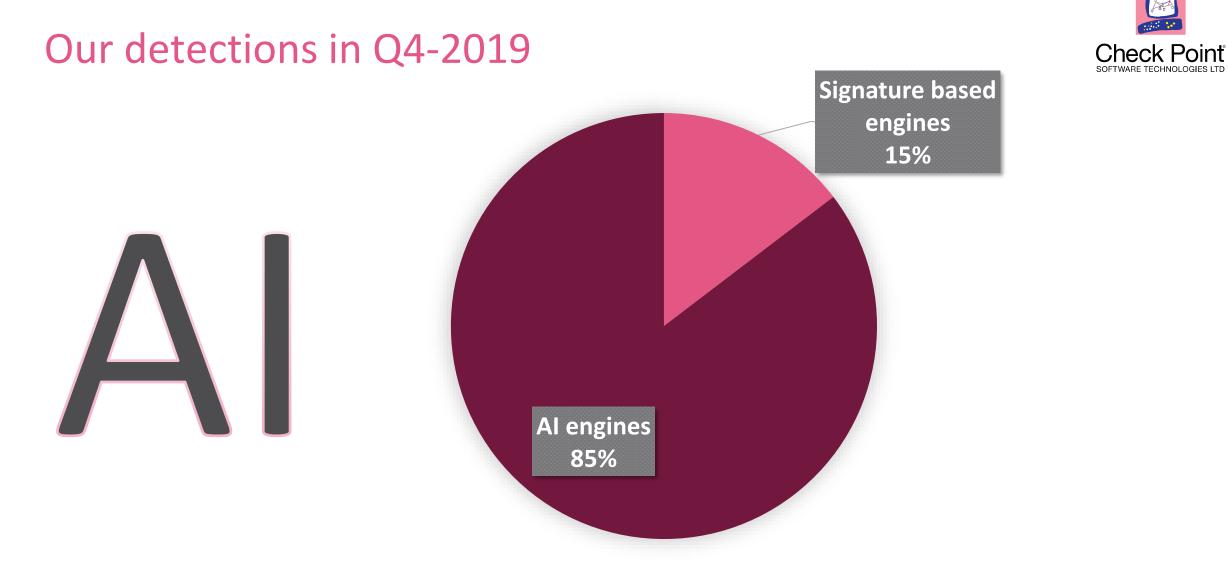


ZERO-DAY PHISHING PREVENTION

MALICIOUS APP DOWNLOAD PREVENTION



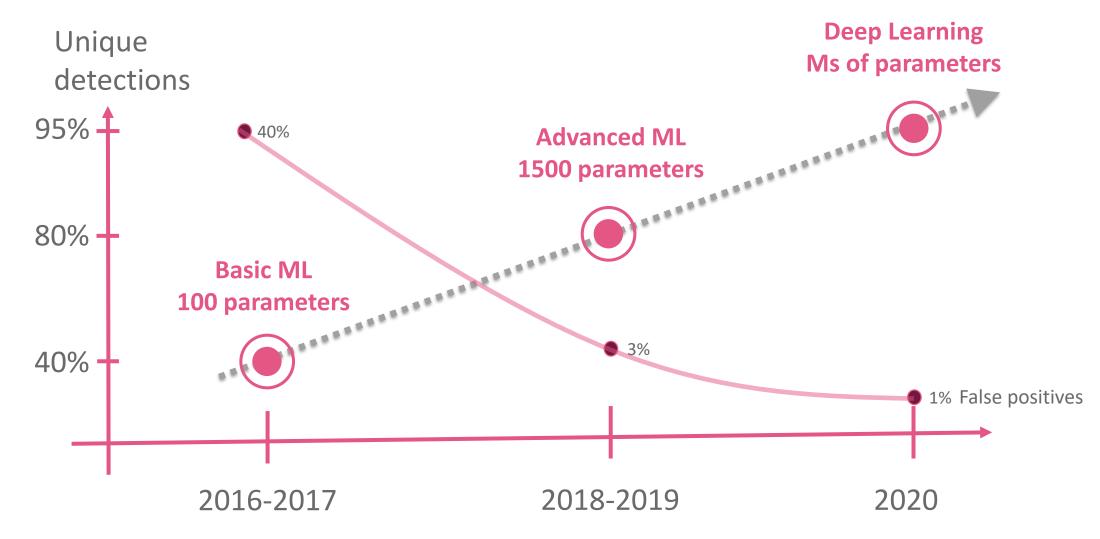
The world's best zero-day prevention. Period.



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Evolution of our Artificial Intelligence Engines

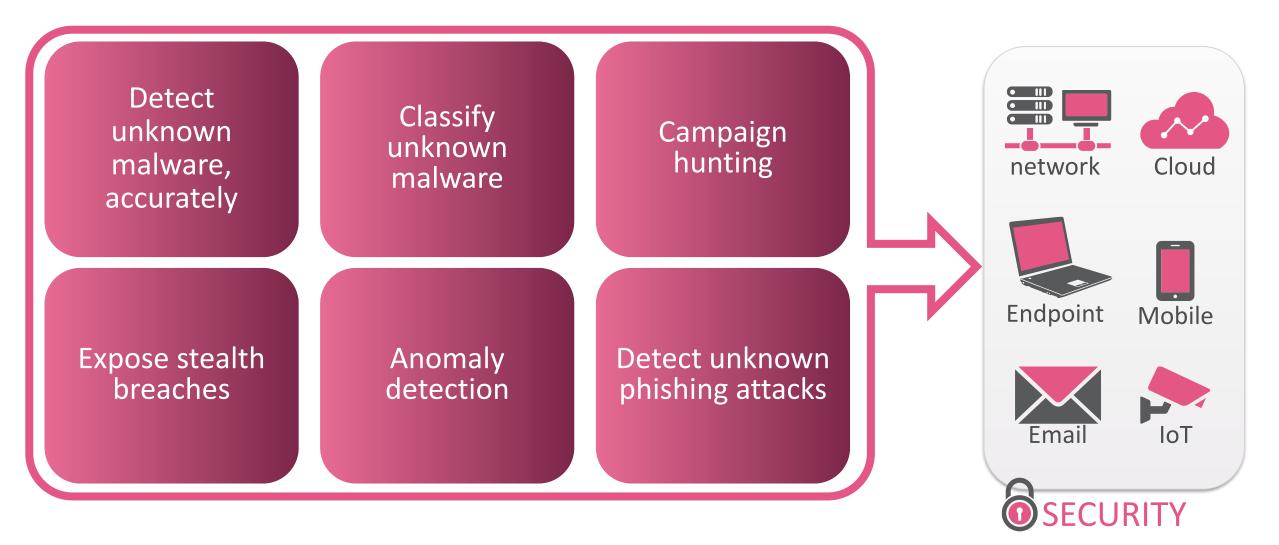




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What do we use AI for?



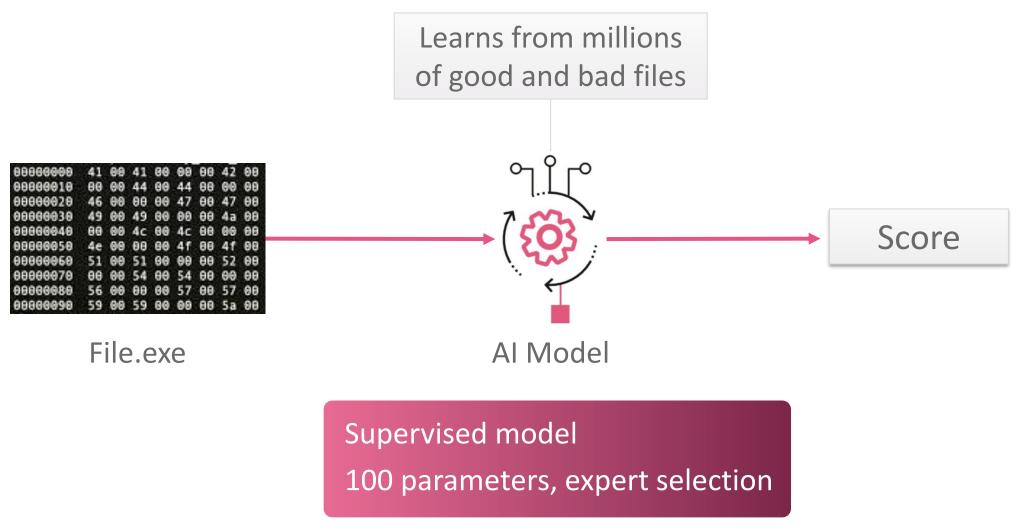


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Our first generation AI engines (2016)

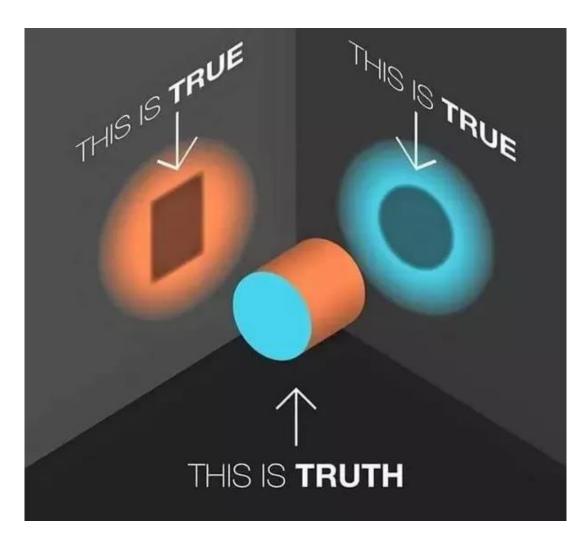




How can we improve AI detection?



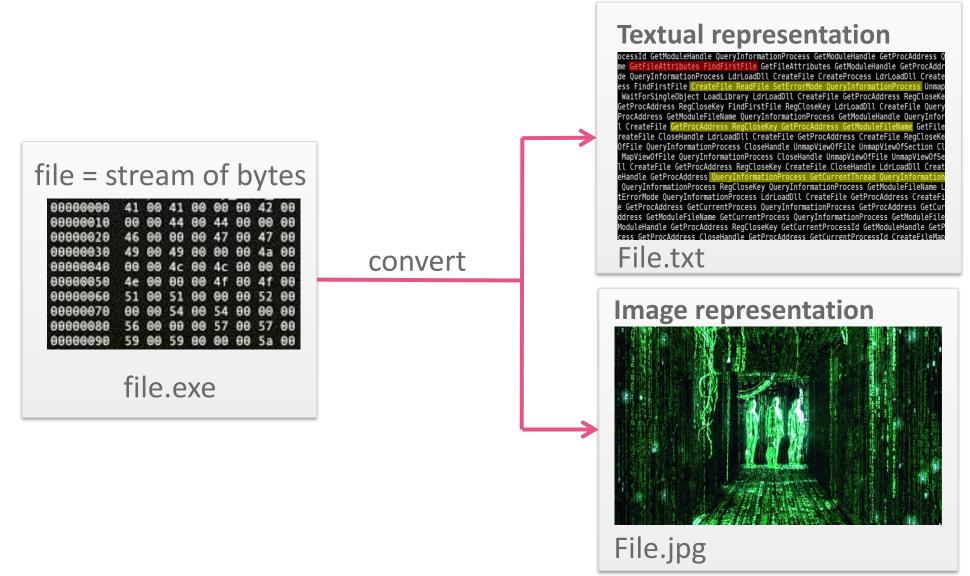
CHANGE OUR PERSPECTIVE



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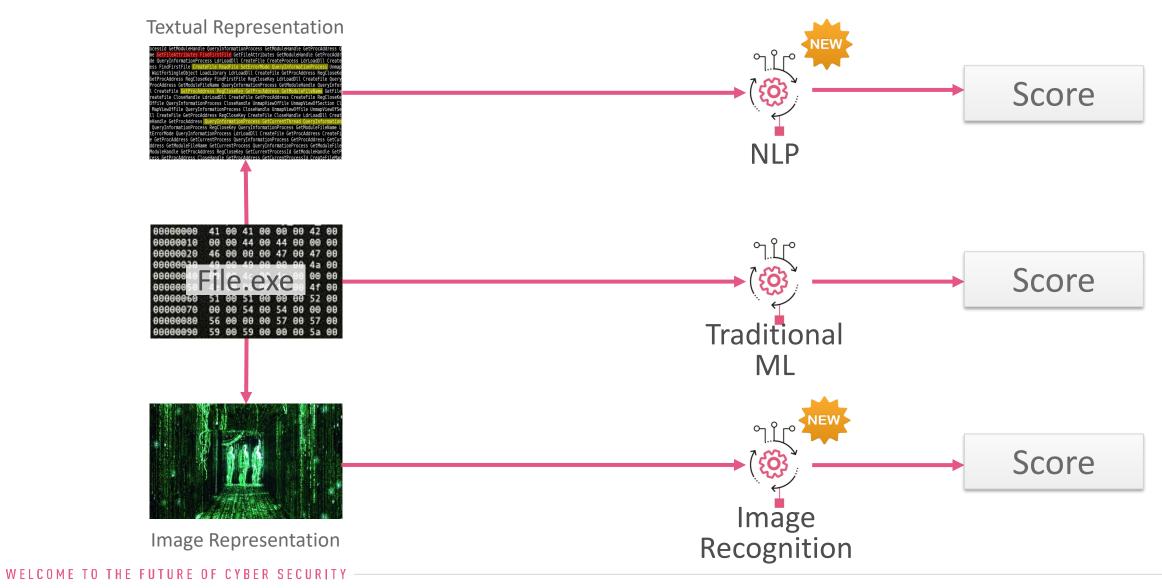
New perspectives on a binary files







Adding new AI perspectives



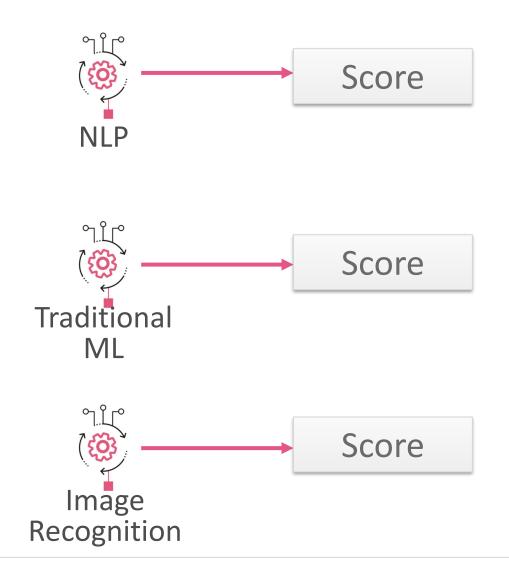
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Adding new AI perspectives



We have **dozens of verdicts** for each file.

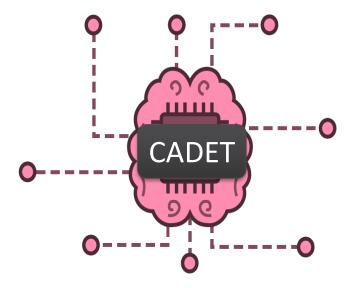
So, how do we decide?



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CADET: The ML of MLs





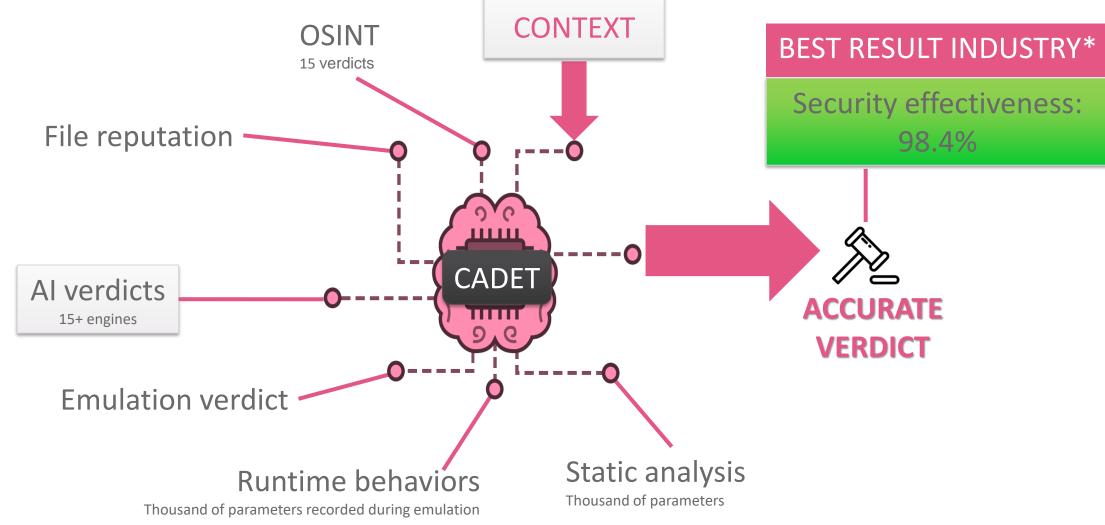
CADET - Context Aware Detection

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CADET: The ML of MLs





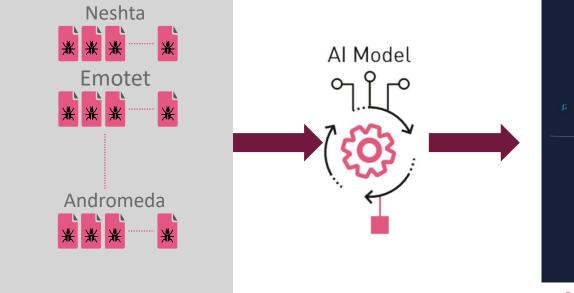
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* NSS BPS test result, 2019

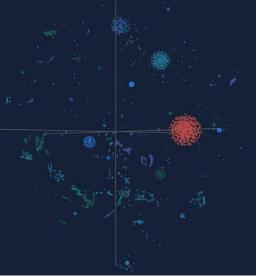
Unknown Malware Classification





Malware Families

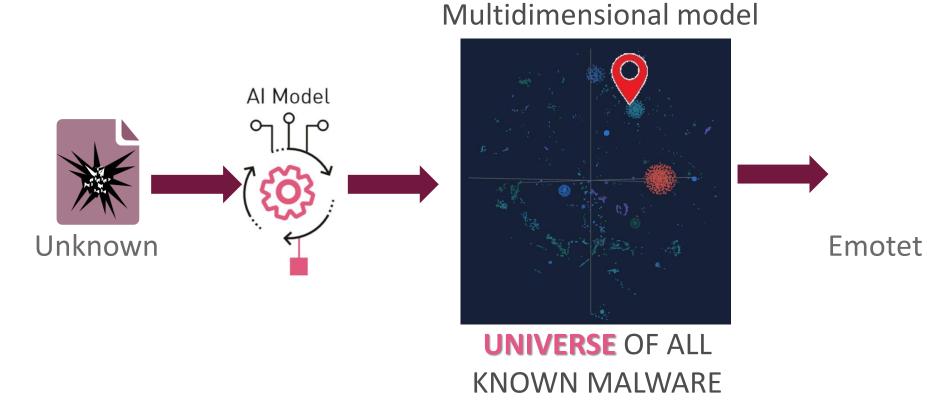
Multidimensional model



UNIVERSE OF ALL KNOWN MALWARE Each galaxy represents all known permutations of a malware family members

UNKNOWN MALWARE CLASSIFICATION



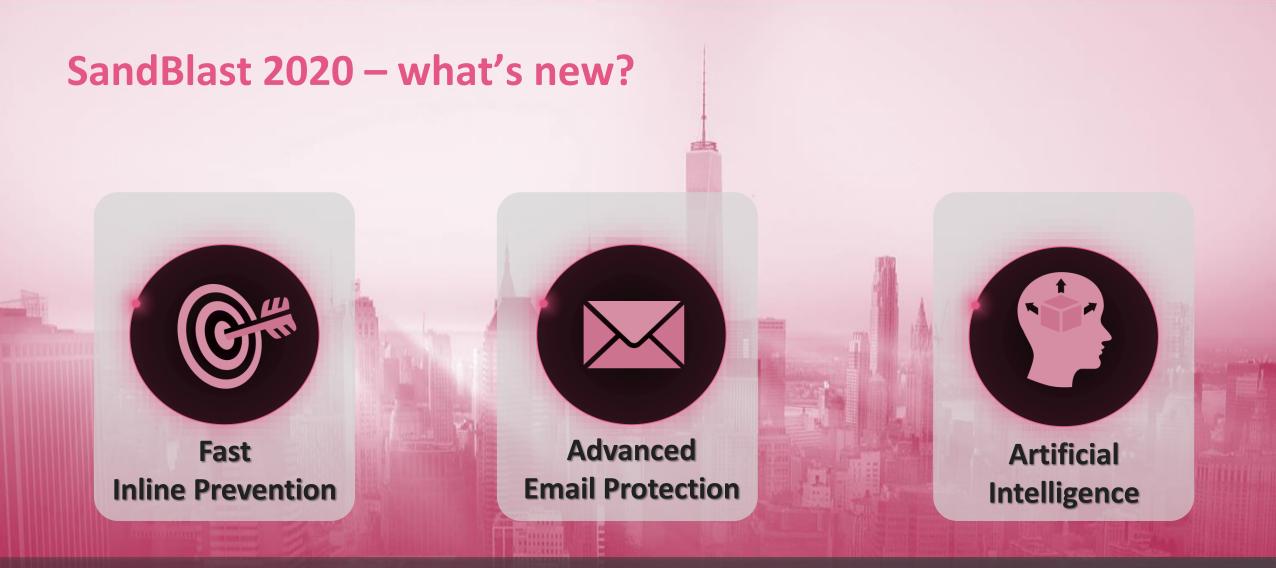


Over 98% classification accuracy

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The world's best zero-day prevention. Period.

Our time's up, but there's lots more coming...



Check Point



FOR A BETTER 2020



Inline Prevention



Advanced Email Protection

Artificial Intelligence

PREVENT ZERO-DAY ATTACKS WITH SANDBLAST

Thank you!

WHAT NEXT?

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Activate SandBlast in your network

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