Wiki Webinar - Hoe ransomware voorkomen?

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- Welcome
- The current threat landscape
- Cloud One Workload security
- Realdolmen offering
- Q&A



Introduction: Trend Micro

- 6000+ employees in over 50 countries
- Headquartered in Japan, Tokyo Exchange Nikkei Index
- Annual sales of approximately \$1.3B US, consistently profitable
- Customers include 45 of top 50 global corporations
- **30 years** focused on making "A World Safe for Exchanging Digital Information"

500k commercial customers & 250M+ endpoints protected











Threat Landscape

The threat landscape is evolving

-Mining



threats



Flash Exploits





Business Email Compromise



IoT and IIoT



Ransomware

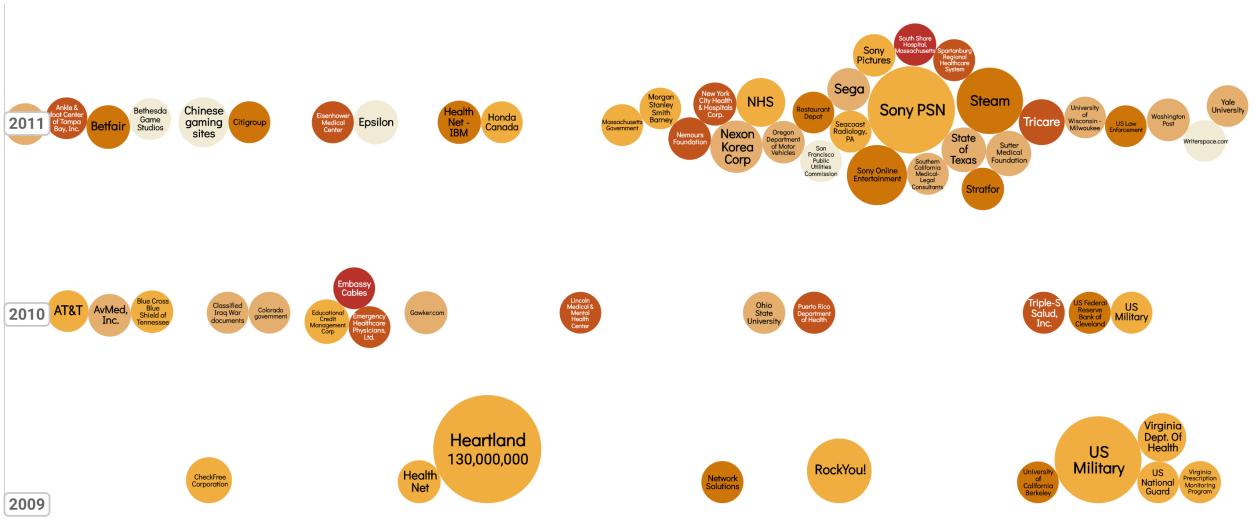


Threats that "live off the land"





Hacks and Vulnerabilities 2009->2011



Source - http://www.informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/



A continuous Battle: WannaCry, Petya, Bad Rabbit, ...

Lee Mathews, CONTRIBUTOR

Opinions expressed by Forbes Contributors are their own

Observing, pondering, and writing about tech. Generally in that order. FULL BIO \checkmark

Moller-Maersk puts cost of cyber attack at up Search

Menu -

'Petya' ransomware attack: what is it and how can it be stopped? 38

'Bad Rabbit' ransomware strikes Ukraine and Russia

© 24 October 2017 Technology

NEWS

Contain

Companies have been crippled by global cyberattack, the second major ransomware crime in two months. We answer the key questions



The website homepage of British advertising company WPP after it was targeted by international cyber-attack

see how an



A cybel A new strain of ransomware nicknamed "Bad Rabbit" has been found Russia, Ukraine and elsewhere.

conglomerate said on Tuesday



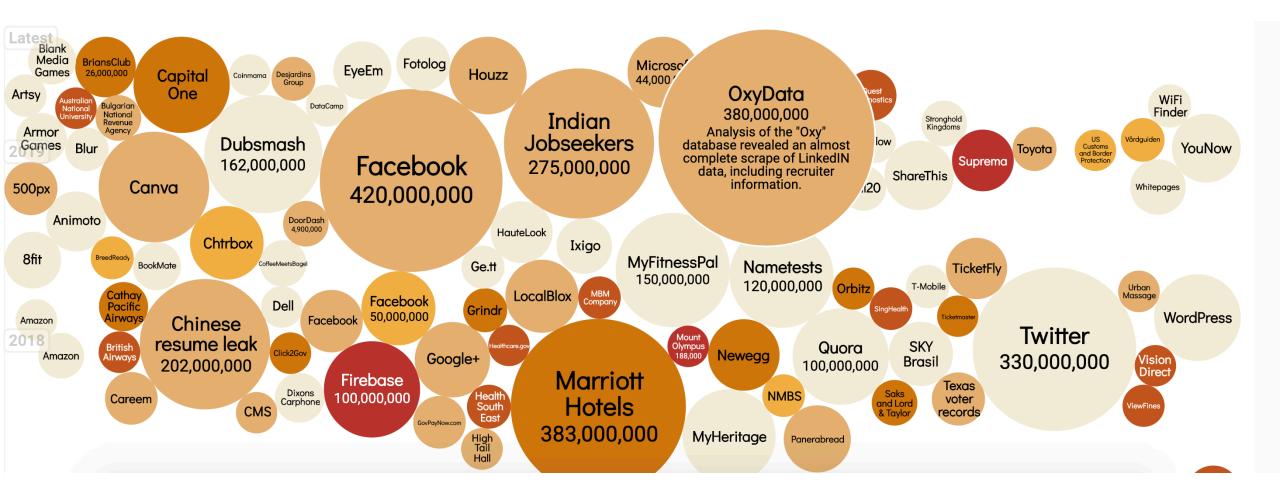


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Hacks and Vulnerabilities 2018 -> 2020



Source - http://www.informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/

Some Recent attacks

Le CHU de Rouen a bien été victime d'une cyberattaque criminelle



"On est revenus au papier-stylo" : le CHU de Rouen victime d'une attaque informatique générale



Source

https:/

10

Radio France Mis à jour le 16/11/2019 | 19:10

Le CHU de Rouen a été victime dans la soirée du vendredi 15 novembre d'une gigantesque attaque informatique, qui empêche toujours samedi d'avoir accès au dossier des patients, rapporte France Bleu Normandie. L'attaque provoque de sérieux ralentissements dans le traitement des patients. Lorsque elle a été détectée, le personnel du CHU de Rouen a décider d'arrêter le système d'information, "pour éviter que l'attaque ne se propage partout", explique le service de communication de l'hôpital. Mais alors, impossible pour le personnel soignant de créer des fiches pour les patients qui arrivent, de suivre les malades ou de communiquer entre services, etc.

Seule solution : "On est revenus au papier-stylo, cela a compliqué énormément les choses, absolument tout est informatisé", détaille Evelyne Bourgeois, agent de service hospitalier et secrétaire locale à la CGT. "Heureusement, il y avait des médecins ce matin pour faire des prescriptions, car on n'avait plus rien. Pareil pour les repas, ils sont commandés par informatique, donc là ça a été compliqué. Certains ont des régimes très particuliers."

Le CHU déjà victime d'une cyberattaque https:

Dans l'après-midi du samedi 16 novembre, tous les logiciels étaient soumis à des analyses, menées par les trente personnes du service informatique du CHU. "On redémarre progressivement après analyse de chaque logiciel", rassure l'hôpital. "Mais il n'est pas sûr que tout soit opérationnel dimanche". Ce qui devrait compliquer encore un peu plus la tâche du personnel hospitalier, encore moins fourni le dimanche, "On est en effectif minimum", déplore Évelvne Bourgeois, "Il y aura des médecins de garde, mais ca va être compliqué."

'Dit was de grootste cyberaanval op een Belgisch ziekenhuis tot nu toe'

Herstal: la cyberattaque contre la clinique André Renard a coûté cher

(D) >)



Herstal: la cyberattaque contre la clinique André Renard a coûté cher - © Google map

Francois Braibant O Publié le vendredi 05 avril 2019 à 09h21

/al-op-een/belgisch-ziekenhuis-tot-nu-toe~be89ac9e/

duescriminelle.N908414





What to do?



Total Isolation



Pen & paper





Setup "Secure by design" safeguards

OR

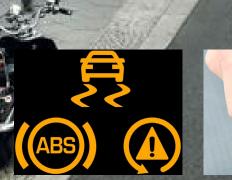


Priority Cybersecurity



Reduce reaction time between detection and response (Do you know that you are breached?)

Multi-Layered / Multi-Technology







...powered by the Best Threat intelligence in the world.

LEADER in vulnerability discovery sinceD2007yovith 6619% of vulnerabilities repaired the 2012017

TOP **READERT** FRvgf Mistalieft & Adobeisedværg bilitie 2007 rldwide

Targeted

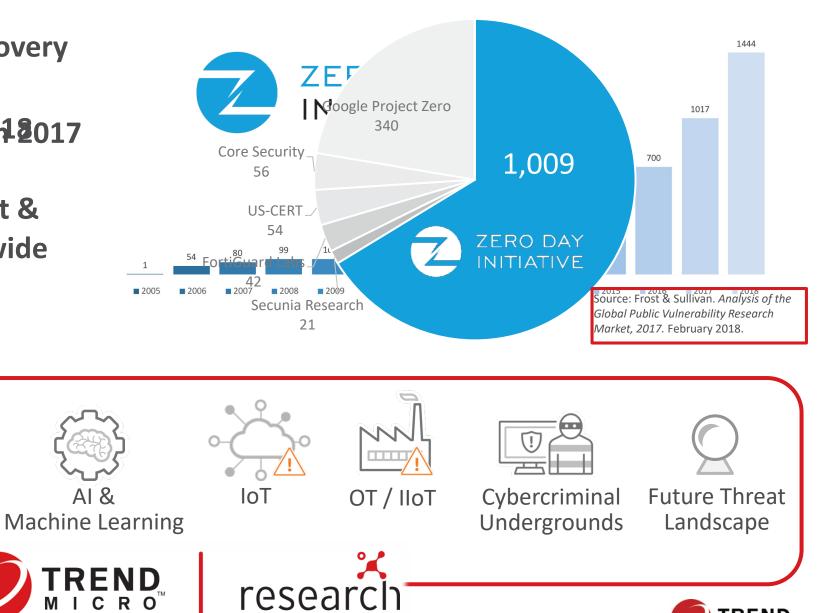
Attacks

ZERO DAY

0-DAY

Vulnerabilities

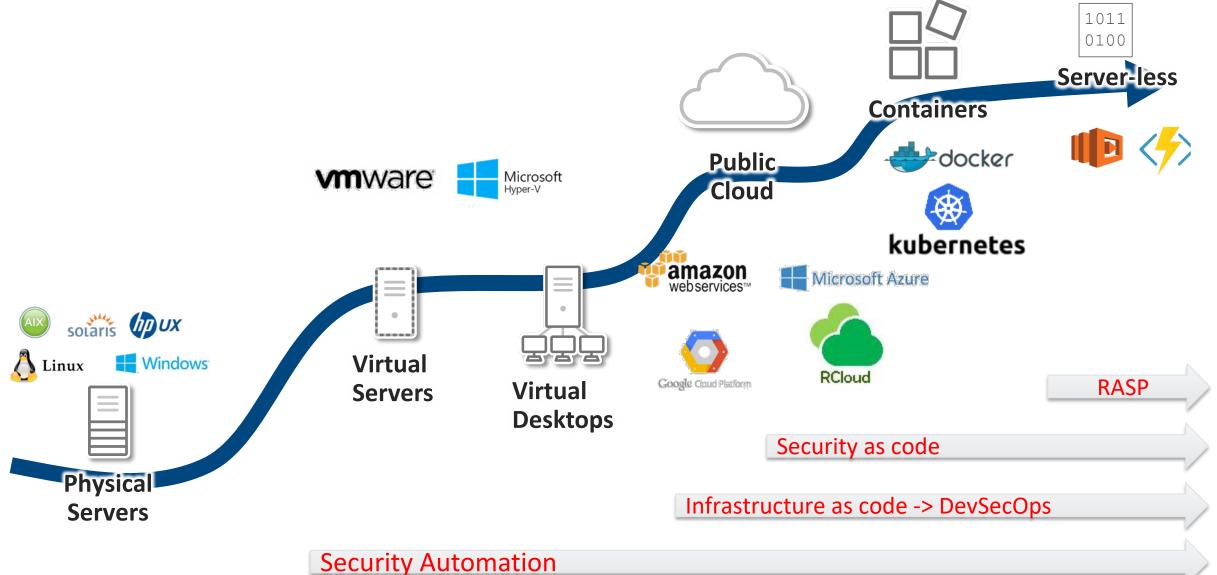
& Exploits



Threats

Cloud & Datacenter Securit

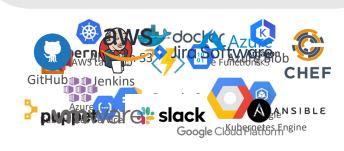
The changing landscape of server workloads



Strategic Priorities for Cloud Builders

Cloud Native Applications

- Deliver factor iten te often
- Infrastr**Detv**@psas-code



How do you secure such a complex & fast-paced environment?



Isition to a culture <

Cloud Migration

Cloud Operational Excellence

- Repeatable & consistent
 Infrastructure and cost Assurance optimization
- Multi-cloud



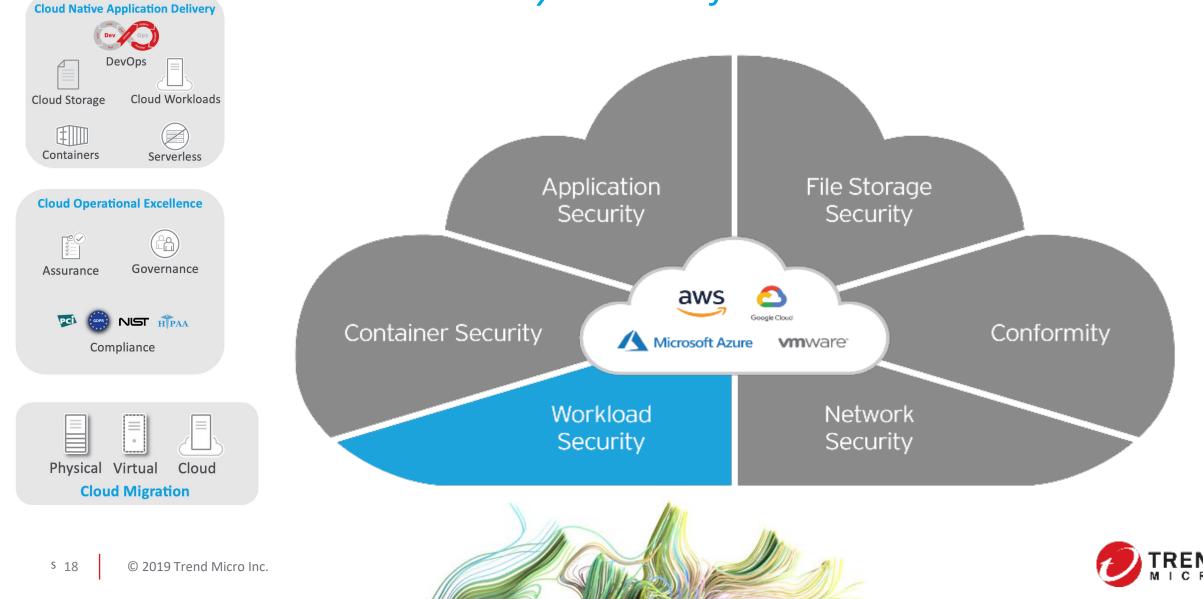
Cloud Center of Excellence (CCOE) & Compliance



Trend Micro Cloud One.[™] Security Services for Cloud Builders

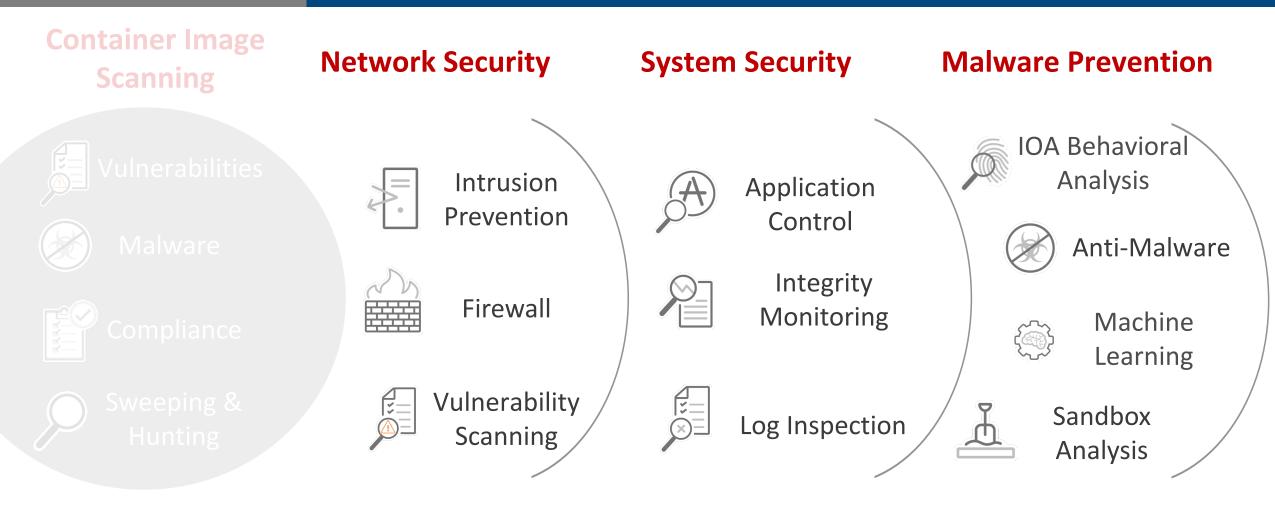


Trend Micro Cloud One.[™] Security Services for Cloud Builders



Build Pipeline

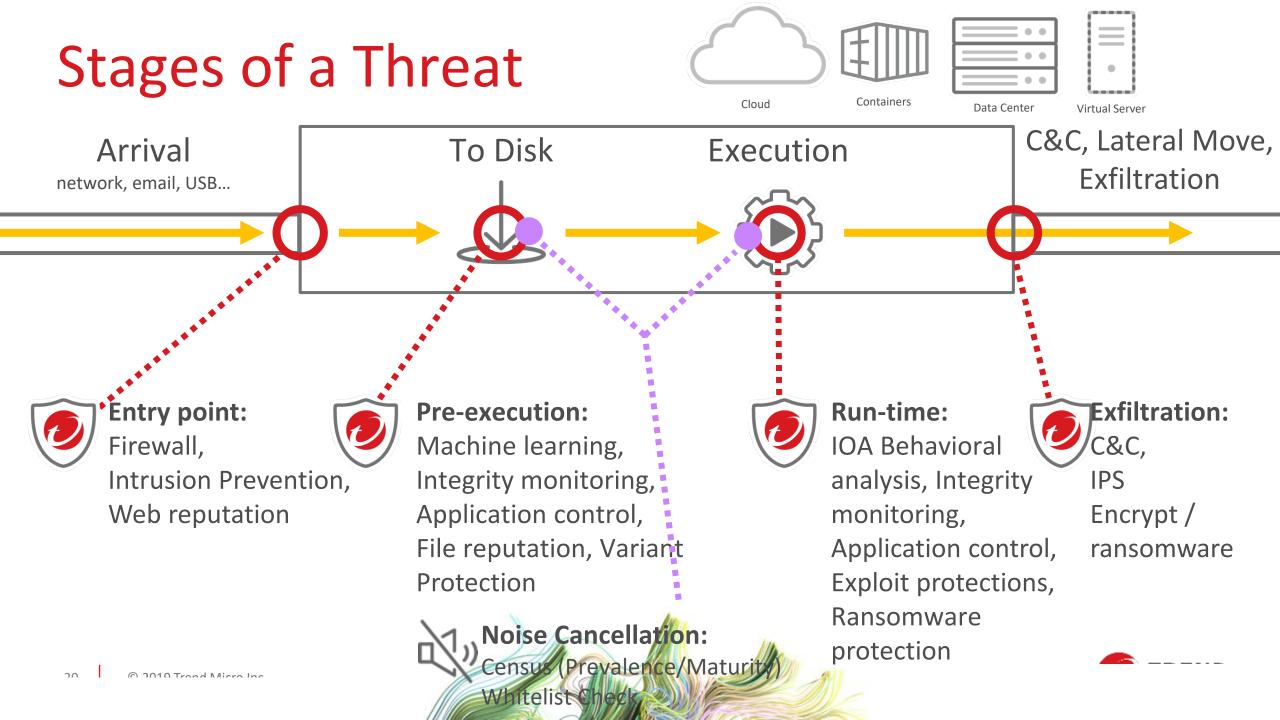
Runtime

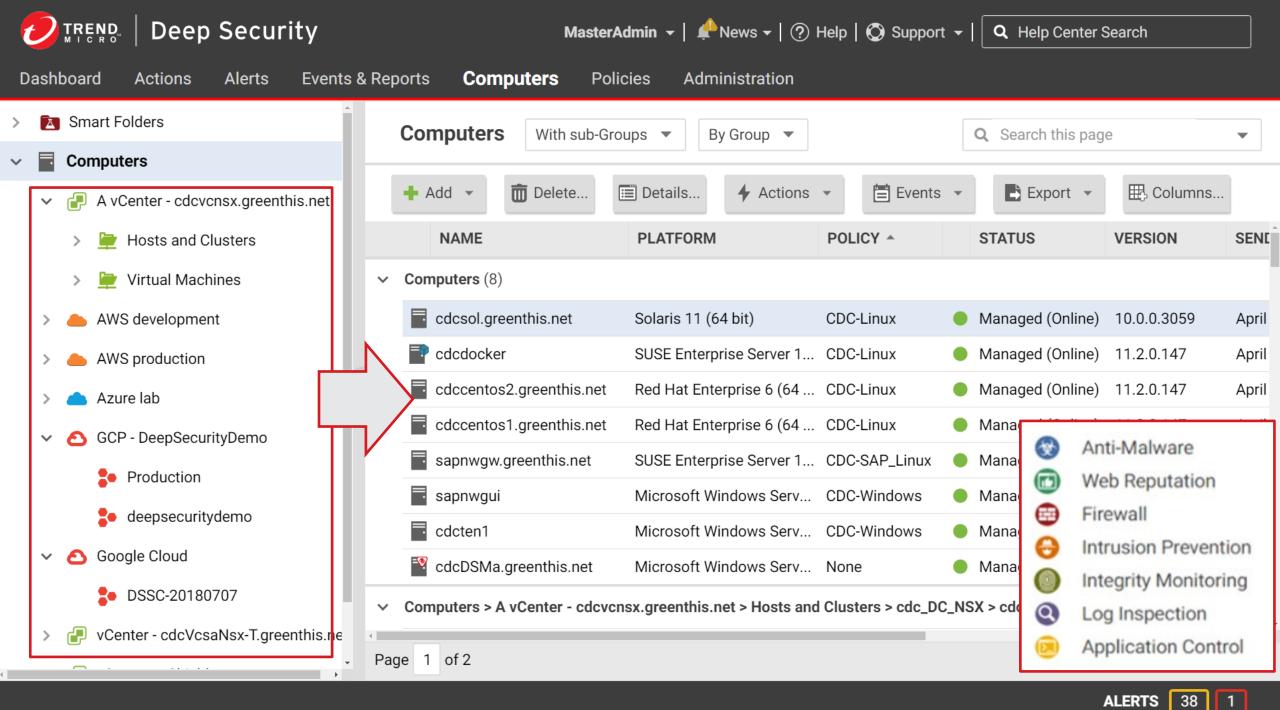


Continuous image scanning

Stop network attacks, shieldLock down systems &against vulnerabilitiesdetect suspiciousactivity

Stop malware & targeted attacks





Detect Emerging Security Risks

Predictive Machine Learning for zero-day/unknown threats

- Protects against prevalent server attacks
- Detects emerging known and unknown security risks at pre-execution time
- Performs in-depth Windows file analysis
- Utilizes Trend Micro Smart Protection Network
- Configured as part of the anti-malware settings

	💋 IREND Deep Security	Dashboard Ac	tions Alerts	Events & Reports						
	 Events System Events System Events Anti-Malware Events Identified Files 	Anti-Malware Period: Last 7 Computers: All Co	No Grouping 💌							
Pred	 Web Reputation Events Firewall Events Intrusion Prevention Events Integrity Monitoring Events ictive Machine Learning Enable Predictive Machine Learning 	View Export Auto-Tagging Export Export								
Beha	Behavior Monitoring Image: Comparison of the system Image: Detect suspicious activity and unauthorized changes (incl. ransomware) Image: Detect suspicious activity and unauthorized changes (incl. ransomware) Image: Detect suspicious activity and unauthorized changes (incl. ransomware) Image: Detect suspicious activity and unauthorized changes (incl. ransomware) Image: Detect suspicious activity and restore ransomware-encrypted files									

Adds combined threat prevention and detection as part of the strong Deep Security layered security solution



Stop Unauthorized Changes

Application Control

- Full visibility of host executables
- Lock down applications and servers (Windows & Linux)
- Trusted updater automatic whitelisting
- Support continuous application change with automation
- Quickly respond to newly discovered threats with block by hash (e.g. IOCs)

	TREND. Deep Secul ashboard Actions Aler		vents &	Reports Computers Policies Administr	ation	sar	Help	Support +	Q Search Help Center
2	Smart Folders Unrecognized Software Last 7 Days							192.168.2.173	
>	Database Server	Q Filter by Tags & Attributes					Hostname: 192.168.2.173		
	Web Servers Computers 47	30 20							Display Name: GT-Web-DB Last IP Used:
	> 🖿 AWS Account - 41062	10 0		Sat, Oct 15 Sun, Oct 16 Mon, Oct 17	Tue, Oat 18 Wed, Oat 1	9 Thu, Oct 20	Fri, Oct 21	Sat, Oct 22	192.168.2.173 Platform:
		47 occurrence(s) of unrecognized software Group By Computer							Red Hat Enterprise 7 (64 bit) Policy: Not Assigned
		~		ec2-52-73-219-185.compute-1.amazonaws.com		41 Occurrences 🗸	ALLOW ALL	BLOCK ALL	Ruleset: Not Assigned Agent Version:
			6	Database.php	Date Detected: October 18, 2016	Installed By: root	🖌 Allow	× Block	Trend Micro Deep Security Agent (10.0.0.1952)
			B	create.php	Date Detected: October 18, 2016	Installed By: root	🖌 Allow	× Block	
	esktop/executables			db_size.php	Date Detected: October 18, 2016	Installed By: root	🖌 Allow	× Block	
hange By Proces	s			delete.php	Date Detected: October 18, 2016	Installed By: root	🗸 Allow	× Block	
oin/chmod				delete_rows.php	Date Detected: October 18, 2016	Installed By: root	✓ Allow	× Block	
hange By User				f 41 <u>Show More</u>					
ot				:c2-52-91-135-18.compute-1.amazonaws.com		5 Occurrences	ALLOW ALL	BLOCK ALL	
Change Event Time May 5, 2016				saifc.sh	Date Detected: October 17, 2016	Installed By: ec2-user	🖌 Allow	× Block	
				saifc.sh	Date Detected: October 17, 2016	Installed By: ec2-user	🗸 Allow	× Block	
aulaurad		-	Ē	saifc.sh	Date Detected: October 17, 2016	Installed By: ec2-user	🖌 Allow	× Block	
			Đ	saifc.sh	Date Detected: October 17, 2016	Installed By: ec2-user	🖌 Allow	× Block	
			Đ	saifc.sh	Date Detected: October 17, 2016	Installed By: ec2-user	🖌 Allow	× Block	
			5 out o	of 5					
		~		192.168.2.173		1 Occurrence	ALLOW ALL	BLOCK ALL	
			B	wget	Date Detected: October 19, 2016	Installed By: root	🖌 Allow	× Block	
	< >		1 out o	of 1					



Vulnerabilities Don't Stop or Go Away





WannaCry



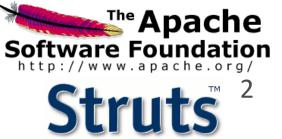
Erebus



Trend Micro ZDI detected 1449 vulnerabilities in 2018. This powers unmatched timeliness for virtual patches.









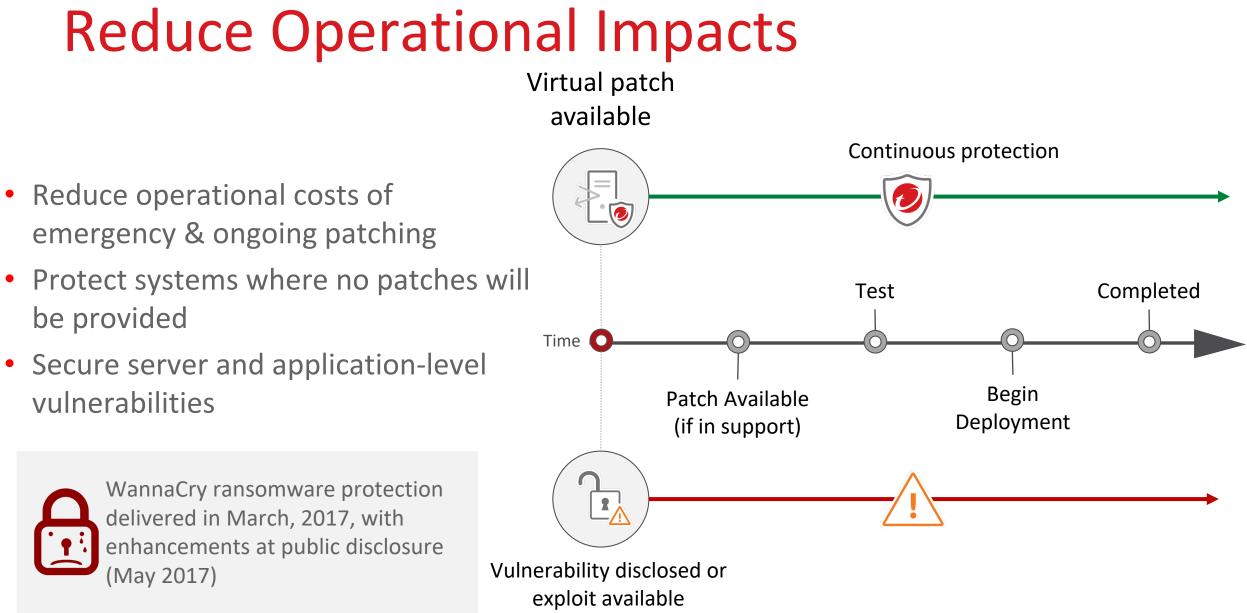
Top Countries

Heartbleed April 2018

1. United States	34,574
2. China	11,770
3. Germany	9,054
4. France	5,609
5. Russian Federation	5,127
6. Korea, Republic of	4,445
7. Canada	3,957
8. Italy	3,898
9. United Kingdom	3,744
0. Japan	3,461

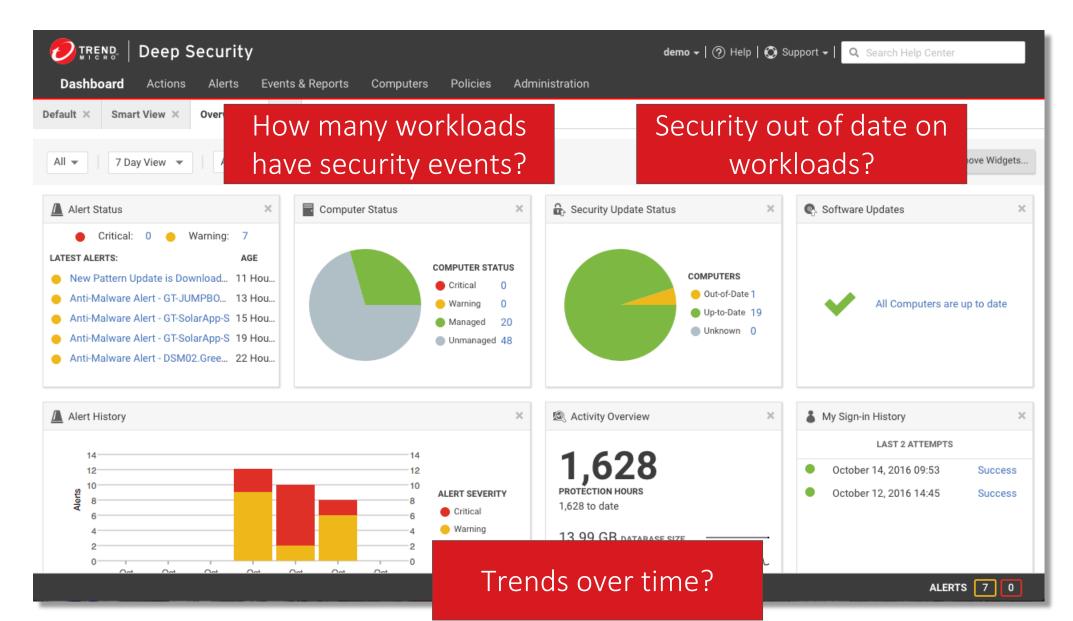








At-a-glance Dashboards: Runtime



Cloud One Security Services





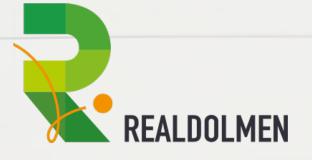
Realdolmen's Offering

- As Reseller
- As Systems Integrator
- As Managed Service Provider

REALDOLMEN'S **MSP O**FFERING

- As Managed Service Provider
 - Product is running on RCloud as a multi-tenancy environment
 - S Packages are available
 - Malware prevention
 - System Security
 - Network Security
 - Pay as you go
 - Multi-cloud

New challenges **NEW IDEAS**



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