

User Threat Detection The next level of IT Security

Ransomware reverse Engineering durch Endpoint Monitoring Cologne – 3.November 2016

Company overview





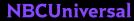
Company Background:

- ➤ Enterprise People Analytics (solving Security, HR & IT problems)
- > Global company with 15 years solving Insider Threat

Some of our Customers:





























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USERS ARE THE KEY





People account for **90% of all security incidents** with confirmed data breaches.

2015 Verizon Data Breach Investigation Report



60 percent of all attacks were carried out by insiders.

2016 X-Force Research Cyber Security Intelligence Index

IN THE NEWS



ComputerWeekly.com Sage data breach underlines insider threat

theguardian

Ofcom tackles mass data breach of TV company information

DARK Reading

Ex-Cardinal Exec Jailed For Hacking Astros

THE WALL STREET JOURNAL.

FBI Suspects Insider Involvement in \$81 Million Bangladesh Bank Heist **Cloud Applications**

- THE NEW ENTERPRISE -

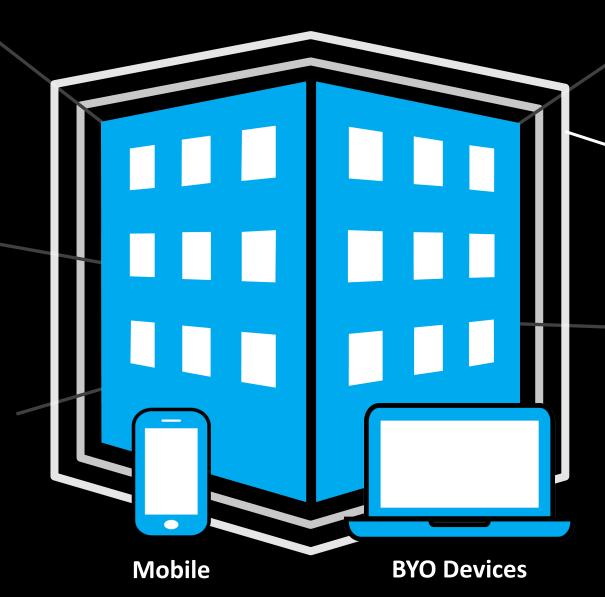
Cloud Hosting



Work from Home



Work from Coffee Shop



Millennials Intolerant of Lock & Block



Colocations

Cloud Applications systems

Cloud Hosting

Thousands of patterns of known bad behavior

Advanced analytics to find new and unknown attacks

Scalable endpoint collector focusing on metadata

Integrate into your existing systems and process

THE ENDPOINT:
THE ONLY WAY TO SEE USER BEHAVIOR

THE DTEX USER THREAT PLATFORM



THE DTEX USER THREAT PLATFORM

USER FLIGHT RECORDER

Scalable
Online & Offline

PRIVACY COMPLIANCE

Anonymization Regulatory Exp.

EXPERT LIBRARY

5,000+ patterns
Known-bad Behavior

USER BEHAVIOR

Anomalies
Auto-learn behavior

ALERTS & HUNT

Dashboard SIEM Integration

EXPERT ANALYSTS | Training | Threat Assessments

DTEX FINDS WHAT OTHERS MISS





MALICIOUS USERS

Creative Data Theft

Obfuscation & Covering Tracks

Bypassing Controls

On and Off Network

Flight Risk



NEGLIGENT USERS

Online File Sharing

Webmail

Pirated Media and Applications

Gambling



CREDENTIAL THIEVES

Unusual Data Aggregation

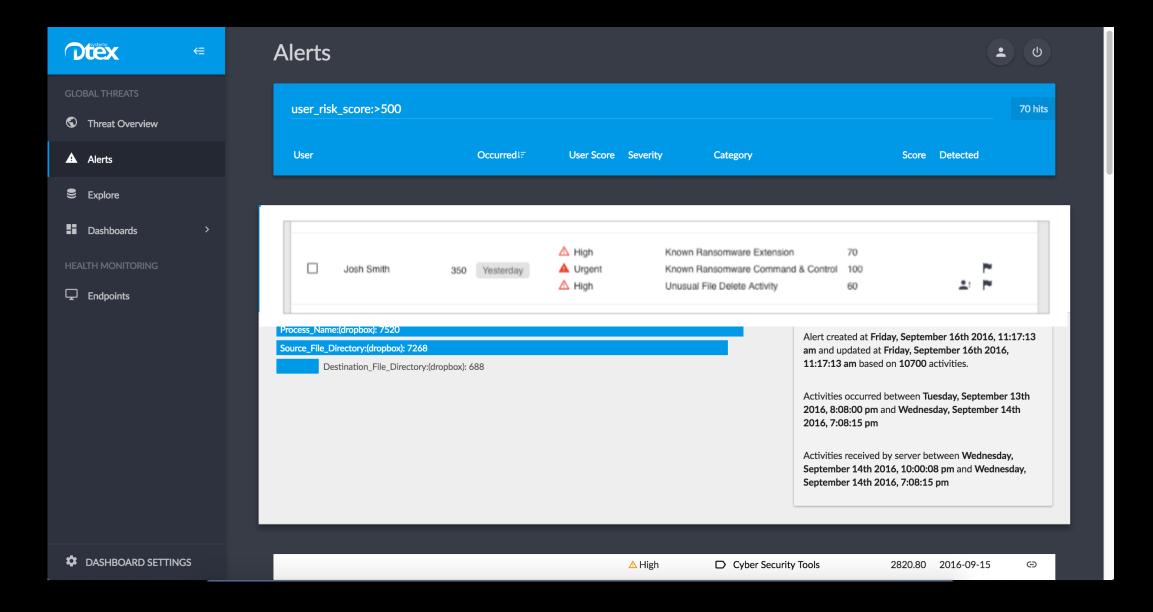
Privilege Escalation

Lateral Movement Tools

Ransomware

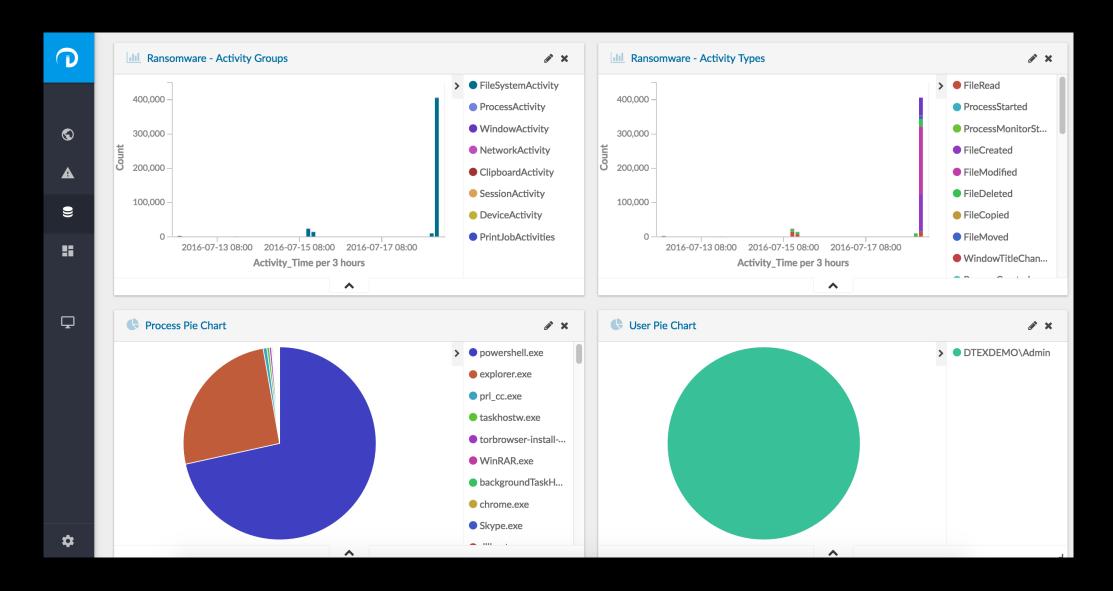
USER THREAT ALERTS





RANSOMWARE





Ransomware reverse engineering



1. Bekannte Dateiendungen / Filenames von Ransomware

	Time Ψ	Device_Name	User_Name	Activity_Type	Source_File_Name	Source_File_Extension
•	June 16th 2016, 11:56:05.105	WORKGROUP\WIN- NQUVG50U4H7	WIN- NQUVG50U4H7\JOHN	FileCreated	21E41BF2ADFA19BB453C6A1480CA81AC	locky
	Time -	Device_Name	User_Name	Activity_Type	Source_File_Name	Source_File_Extension

2. Wo kam die Ransomware herRansomware

	Time Ψ	User_Name	Device_Name	Network_Destination_IP	Netwo	rk_Host_Port	Net
•	June 16th 2016, 09:05:01.221	WORKGROUP\WIN- NQUVG50U4H7	WIN- NQUVG50U4H7\JOHN	112.78.2.153	443		vin

Ransomware reverse engineering



Meist ändert Ransomware auch den Desktop-Hintergrund des Benutzers. Dtex sucht nach neuen Bilddateien, die Ausdrücke wie "verschlüsseln" und "entschlüsseln" enthalten.

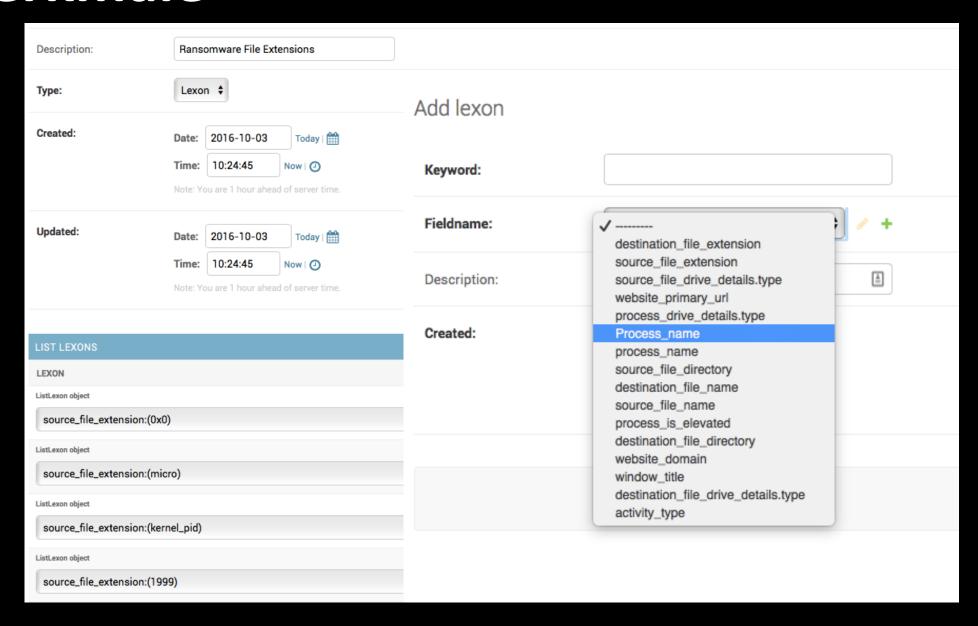
	Time →	Device_Name	User_Name	Activity_Type	Source_File_Name	Source_File_Extension
•	June 16th 2016, 14:06:01.722	WORKGROUP\WIN- NQUVG50U4H7	WIN- NQUVG50U4H7\JOHN	FileCreated	paycrypt	bmp

Bei bereits bekannten Ransomware-Samples erkennt Dtex auch den jeweiligen Hash von bekannten Ransomware-Dateien und ausführbaren Dateien.

	Time Ψ	Device_Name	User_Name	Activity_Type	Source_File_Checksum_SHA256
•	June 16th 2016, 12:18:22.184	WORKGROUP\WIN- NQUVG50U4H7	WIN- NQUVG50U4H7\JOHN	FileCreate	508F5770F18098CBE8C14EBB696998AE

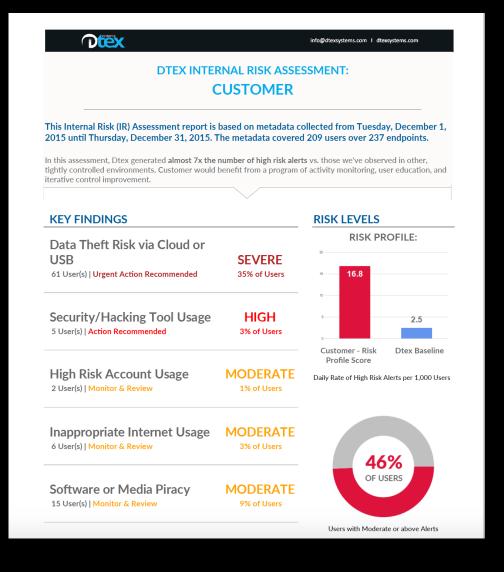
Merkmale













Vielen Dank für Ihre Aufmerksamkeit