

RSAConference2016

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Protect

SESSION ID: MBS-T11

Battling Daily Cyberattacks: A Day in the Life of Orange Israel's CISO

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@ariehs



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Who Am I?



43 Y,
M + 3

>25 Y IT & IS
EXPERIENCE

FROM CISO TO
CCMM



3 Y @ ORANGE
ISRAEL AS
CCMM

FAMOUS FOR:
“YES, I’LL
APPROVE IT
BUT...”

MY EMAILS
ARE SIGNED
WITH THE CISO
OATH:

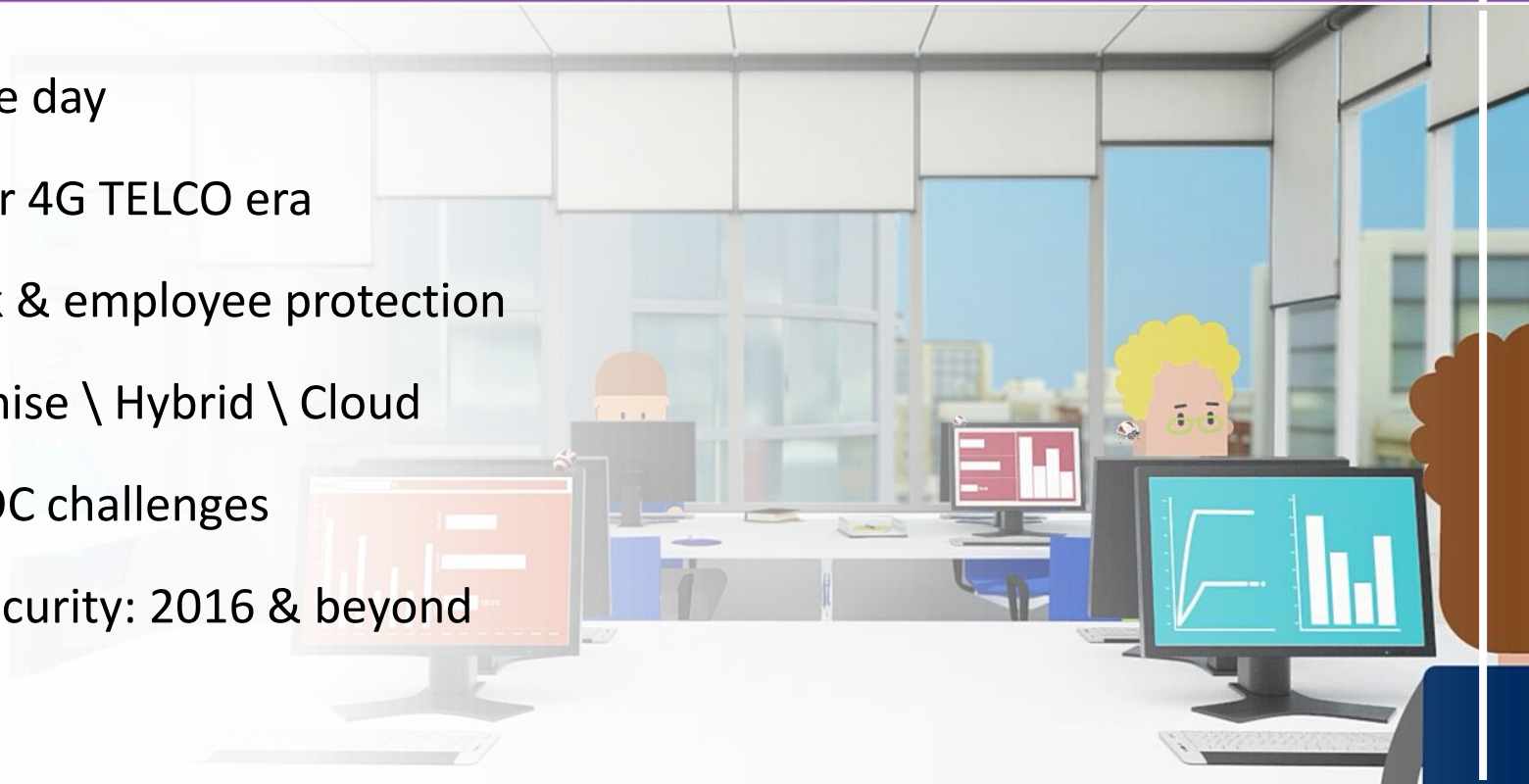
**IN GOD WE
TRUST -
THE REST WE
MONITOR 😊**

Let's Talk About...



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- My office day
- Cyber for 4G TELCO era
- Network & employee protection
- On-premise \ Hybrid \ Cloud
- SIEM\SOC challenges
- Cyber security: 2016 & beyond



My Playground



> 3M
Subscribers

Largest
Israeli ISP

Secured
Hosting &
Cloud Services

~ 4500
Servers

~ 3000
VLANs

Israel: Cyber
Start-Up
Nation

Main Assets Requiring Protection



Network Equipment



DNS / NTP Services



International & Local
Lines



Digital Services



VOIP Solutions



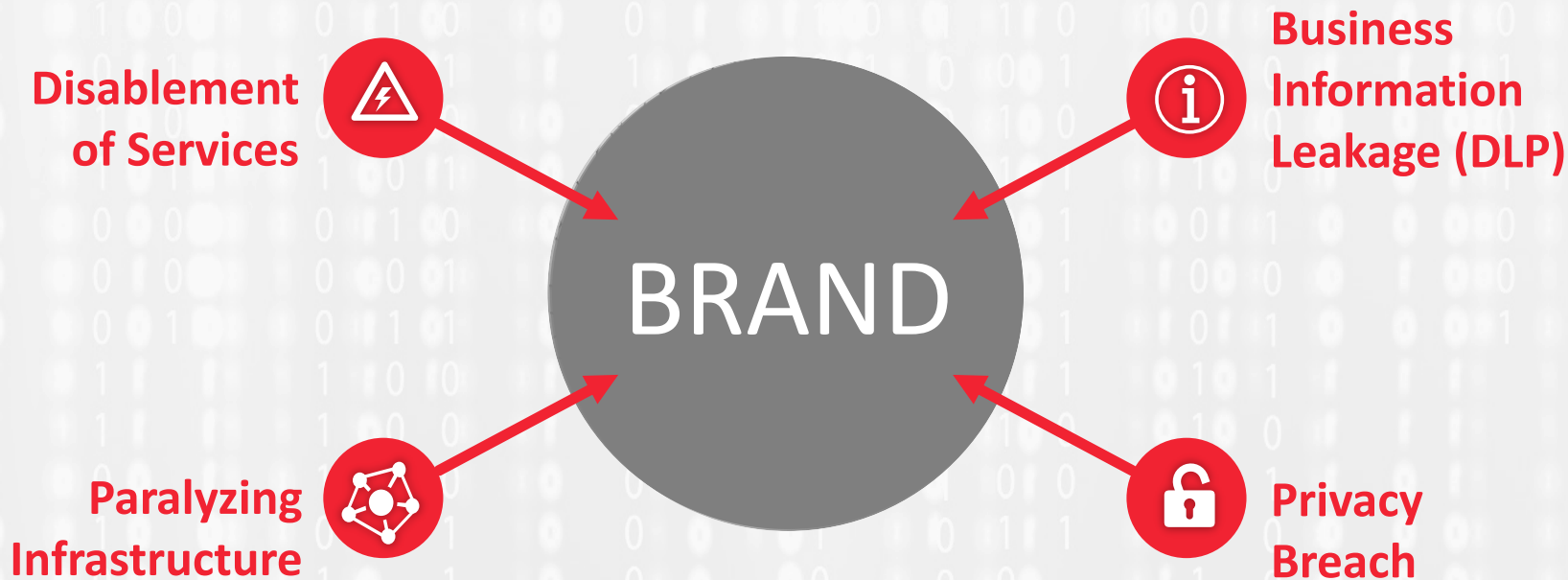
IT Infrastructure

EVERYTHING

Potential Cyber Threat Disasters



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A Day in the Life of a CISO in Israel...



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Working

SLA 24/7*

response time

VoLTE



ON-CALL



Employee meeting



WIFI calling



meeting



4G/5G designs



technologies



DDoS Protection at its Best!



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- Allot Service Gateway Tera framework: One year
- Provides best DPI & DDoS
- Manual\Auto Block: Allot ServiceProtector
- Full SIEM\SOC integration

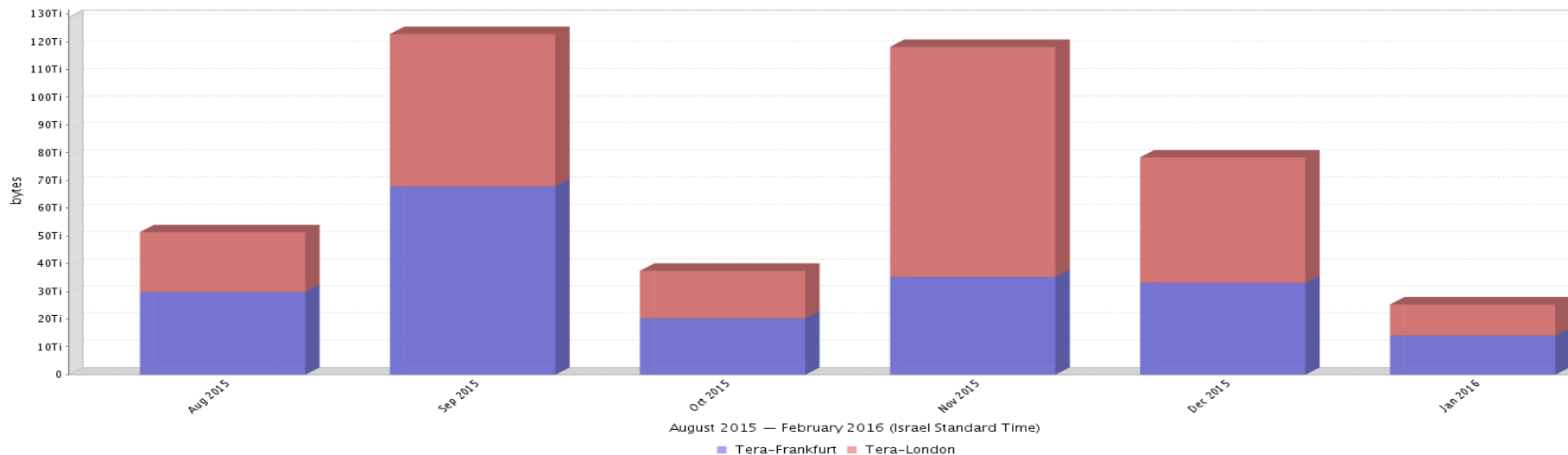
**Last Year,
Allot ServiceProtector
Saved our Network from
Several Huge DDoS
Attacks with
ZERO False Positives!**



ALLOT SERVICEPROTECTOR GRAPH



780 TB not legit traffic blocked in the last 6 month!



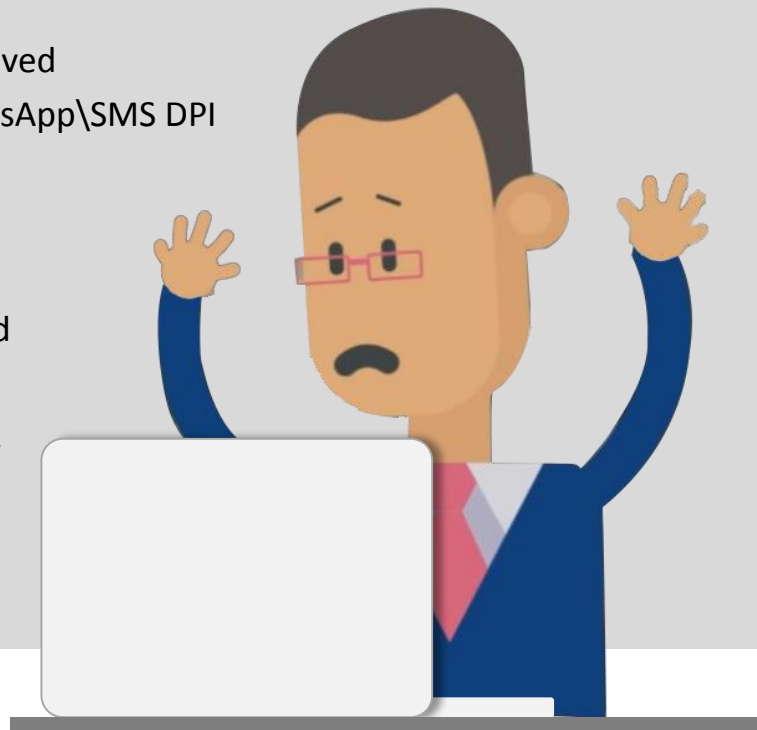
Zero-Day\APT Madness: The Counter Strike



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Network Protection

- Ability to receive ZD\APT removed
- Mail\web\FTP\CyberArc\WhatsApp\SMS DPI
- Network anomalies monitored
- Traffic recorded & monitored
- HoneyPot solutions
- SSL traffic monitored & blocked
- Cloud secured
- Everything goes to SIEM\SOC...



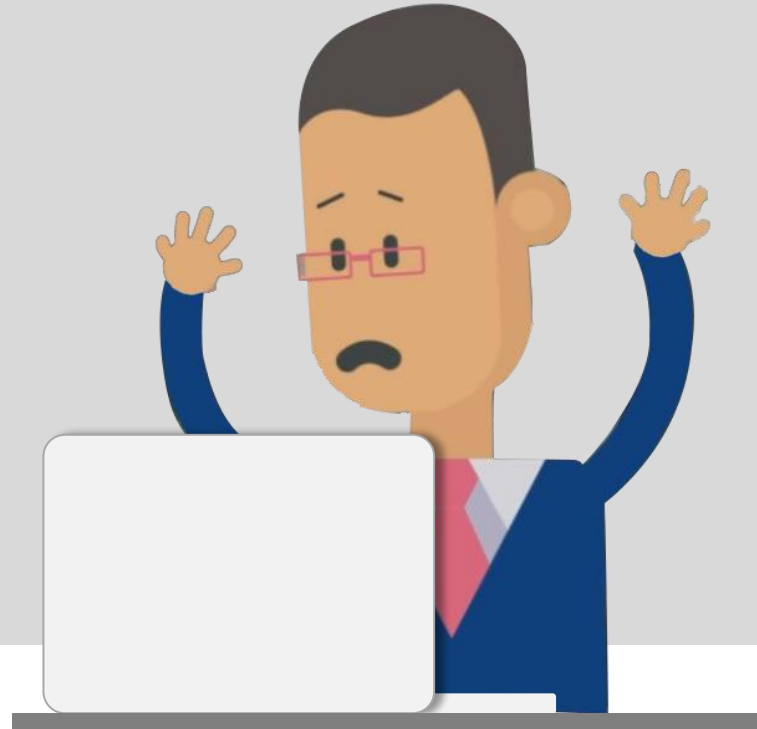
Zero-Day\APT Madness: The Counter Strike



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End Point Protection

- Admin privileges restricted
- Malicious code blocked
- Web browsing secured
- DOK removed
- ZD\APT solution implemented



Huge ransomware attack blocked!

Employee Awareness Education



Monthly Cyber Training



Demos, Lectures &
Drama



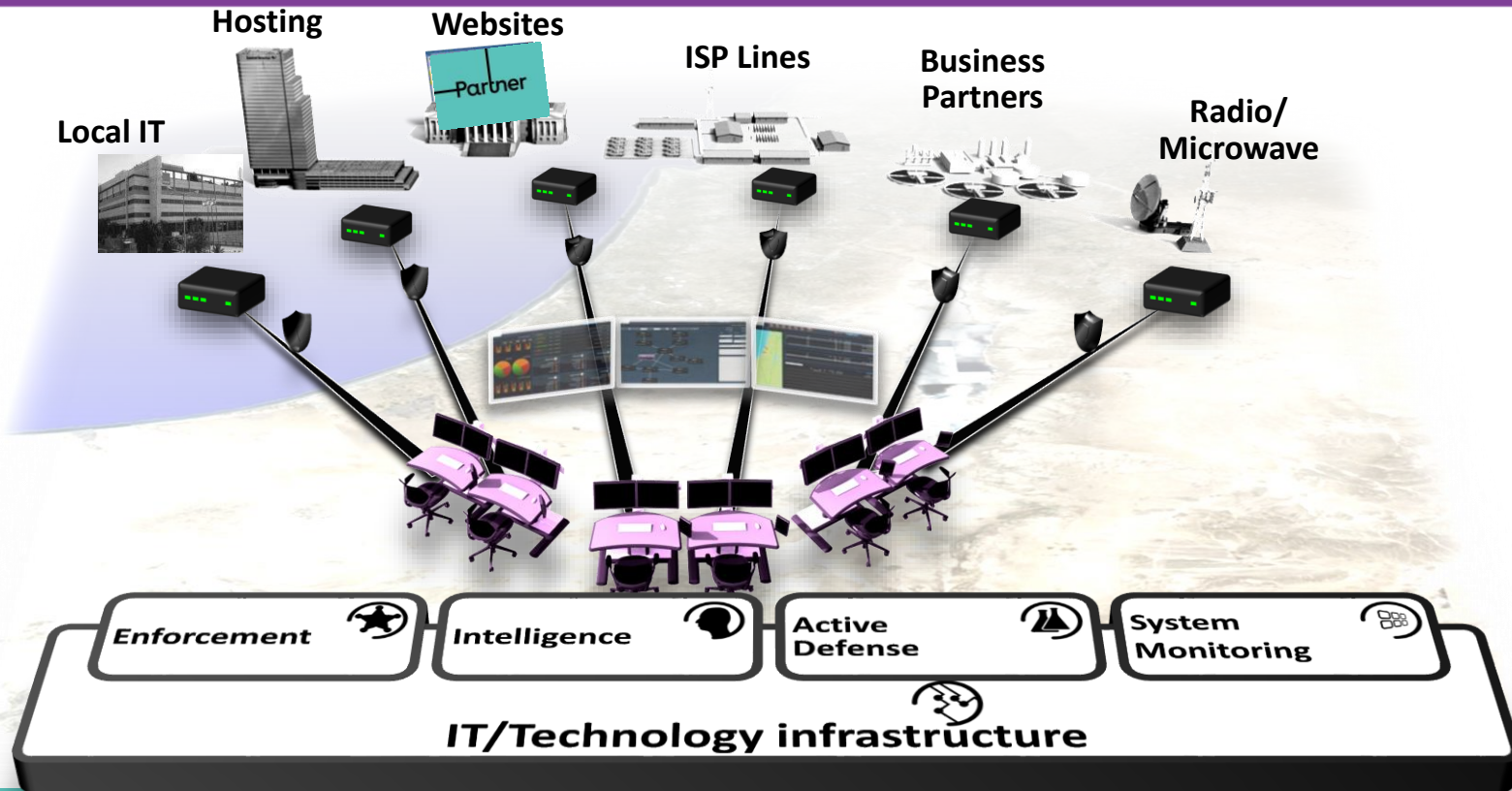
Monthly Cyber
Attack Newsletter



To Cloud or Not to Cloud?

- Why ?
- Where & how will my data be stored & encrypted?
- Who has access to my data?
- What regulation & security standards support is there?
- Where is authentication done?
- What happens with DLP issues & AV/ZD/APT support?

Partner Cyber SOC



Cyber Security Operations Center



- Threat
- ISP
- Host
- IT
- Fraud
- Suspicious
- Threat
- IR man
- Visual



Cyber “Guidelines” for 2016-2017



Threat Intelligence
for the Masses



Secure / Private Cloud
Solutions



IoT– Secure / Monitor /
Network Capacity / etc.



Cyber Drills inside out



Supply Chain Monitoring
& Mitigation



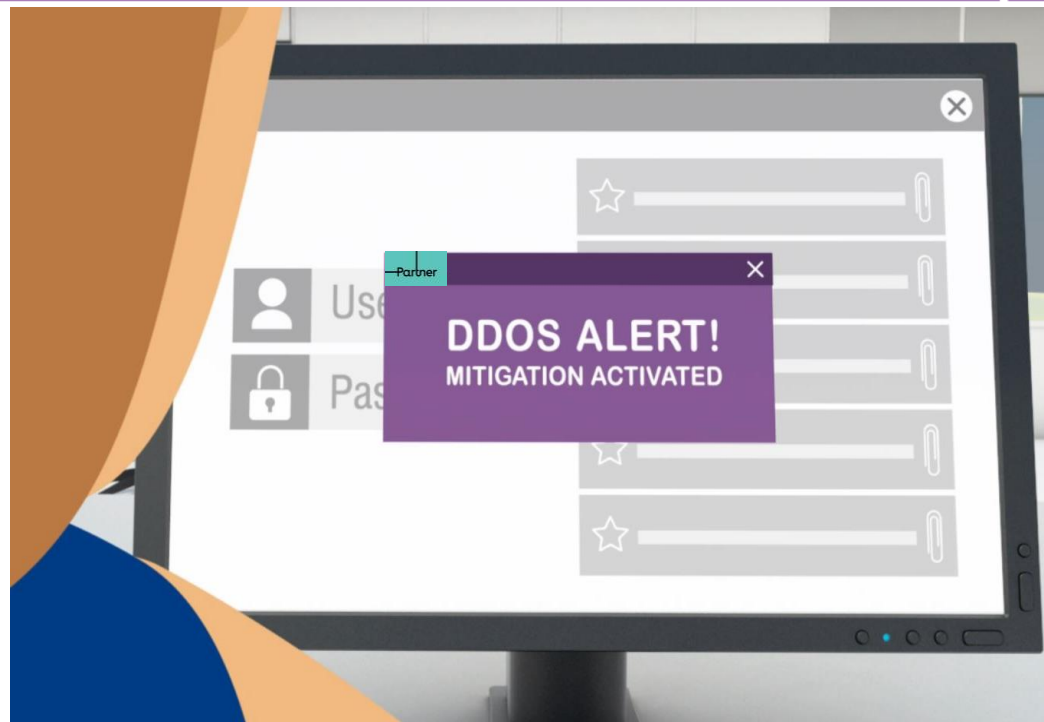
Employee
Awareness, Awareness,
Awareness

Apply What You Have Learned Today



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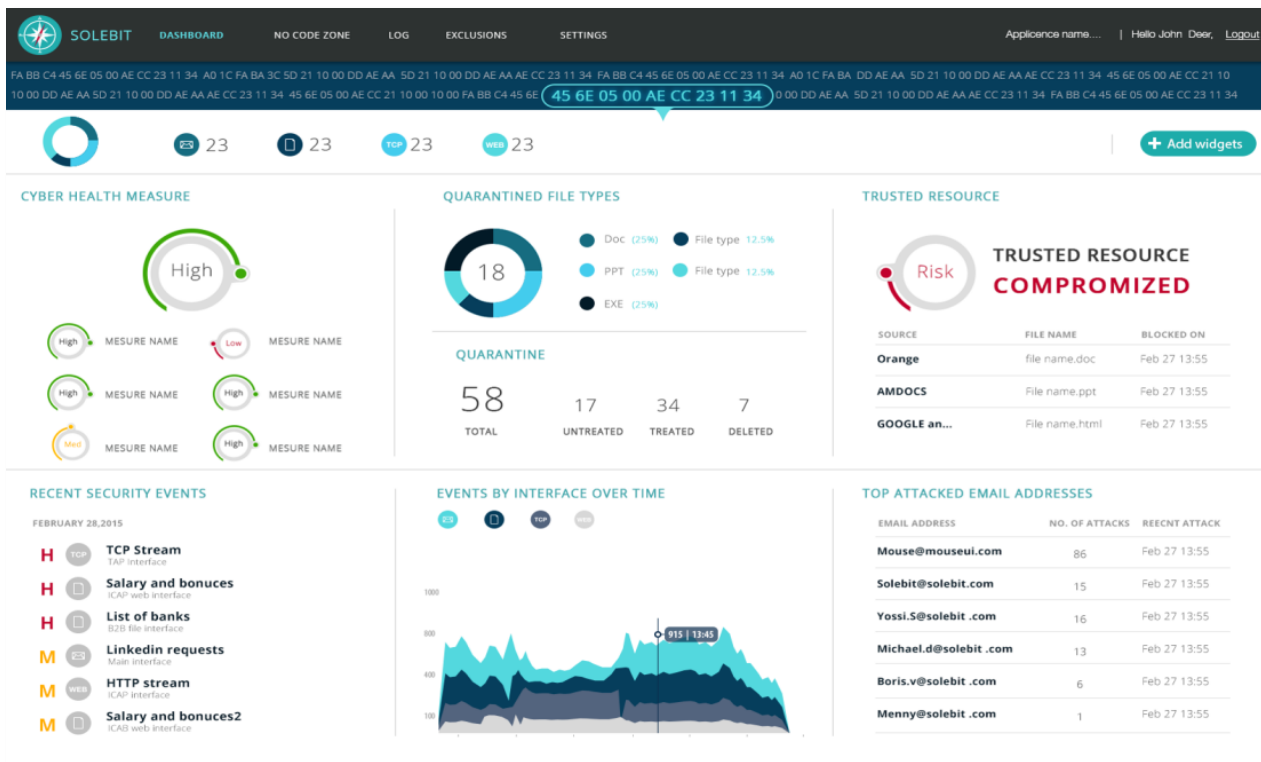
- Next week you should:
 - Have an employee cyber risks training
- In the first three months following this presentation you should:
 - Build a “game plan” for a ZD\APT defense program considering:
 - Network Monitoring
 - EndPoint blocking
 - Traps to SD
 - SIEM logs & correlations
 - External threat analysis service
 - Database controls
- Within six months you should:
 - Cyber incident response program
 - “Table TOP” drill



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THANK YOU!

ANY QUESTIONS? NOW'S THE TIME...





LightCyber Magna - v2.8

Host Details WS-FIN-29345 (Michael Sgrin's PC)... Licensed to Dev RSA-2015 Development License LIGHTCYBER

Lateral Remote Code Execution Detected: 12/25/2013 - 12/25/2013

BEHAVIOR

- WS-FIN-29345 performed remote code execution on WS-IT-15674, 4 sessions (RPC)
 - This computer did not perform remote code executions in the last 30 days.
 - The source and destination are both workstations.
- User: [michael.sg](#) was logged in
- Process: [powershell.exe](#)
 - Threat Intelligence: Benign

INDICATOR DETAILS

- Overview
- Behavior Details
- Steps to Verify
- Recommendations

NETWORK

PROCESS

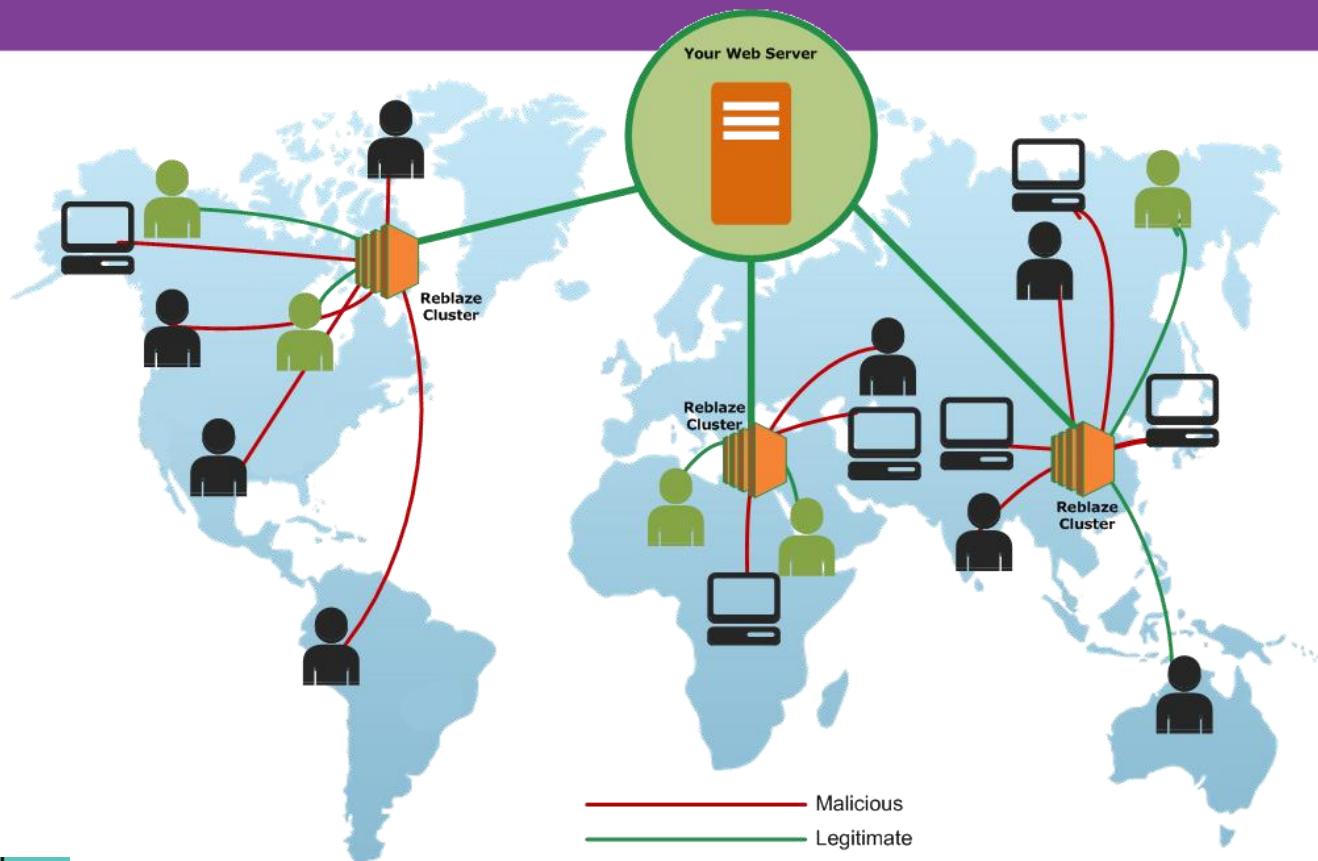
Related Entities

Michael Sgrin [0]

Michael Sgrin powershell.exe 10.113.100.7 WS-FIN-29345 Michael Sgrin's PC 4 sessions 10.116.240.31 WS-IT-15674 Donna Feldman's PC

1.58x 1:1 Fill

ReBlaze WAF, DDOS, BOT...



VoLTE at Glance 😊

