

Fortinet Security Fabric, Bezpečnosť nielen osobných údajov

ITAPA 14.11.2017

Zsolt Géczi, Fortinet, regional account manager, Slovakia

Fortinet: Global Network Security Leader

Highlights: 2000 - present











Fortinet: Gaining Share in a Growing Market

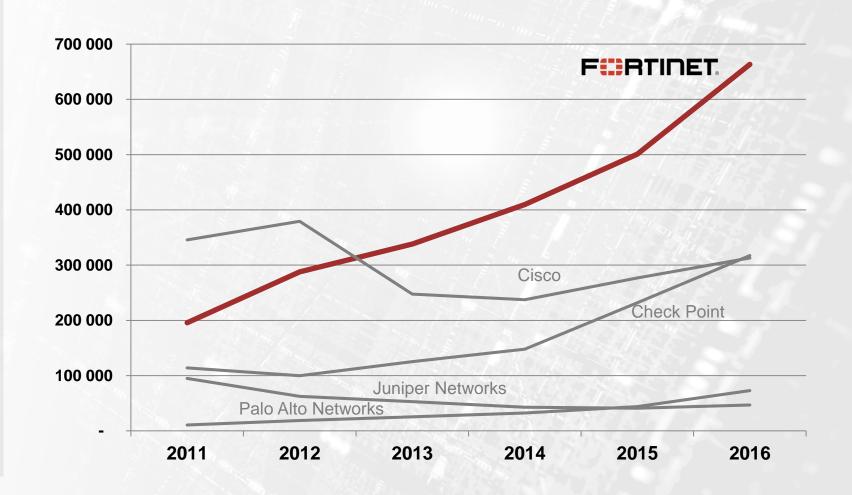
Fortinet vs the Competition

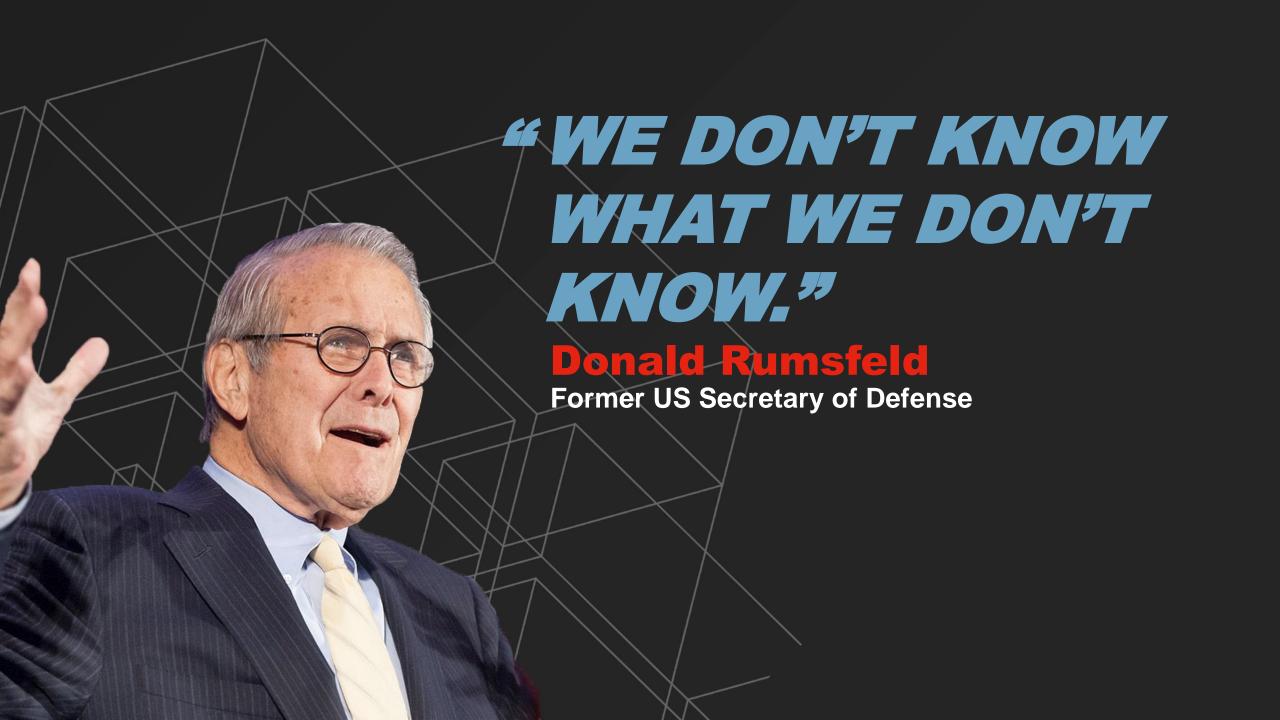


Solving a broad range of challenges...

- Fortinet is the largest network security appliance vendor in the world
- Fortinet has developed a visionary suite of security solutions

Source: IDC Worldwide Security Applicances Tracker, March 2016 (based on annual unit shipments)





PREPARING FOR GDPR*

12 Steps To Take Now

1

Awareness

You should make sure that decision makers and key people in your organisation are aware that the law is changing to the GDPR. They need to appreciate the impact this is likely to have.

2

Information you hold

You should document what personal data you hold, where it came from and who you share it with. You may need to organise an information audit.

3

Communicating privacy information

You should review your current privacy notices and put a plan in place for making any necessary changes in time for GDPR implementation.

4

Individuals' rights

You should check your procedures to ensure they cover all the rights individuals have, including how you would delete personal data or provide data electronically and in a commonly used format.



Subject access requests

You should update your procedures and plan how you will handle requests within the new timescales and provide any additional information.

Lawful basis for processing personal data

You should identify the lawful basis for your processing activity in the GDPR, document it and update your privacy notice to explain it.

7

Consent

You should update your procedures and plan how you will handle requests within the new timescales and provide any additional information.

8 Children

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Data Breaches

You should make sure you have the right procedures in place to detect, report and investigate a personal data breach.

Data Protection by Design and Data Protection Impact Assessments

You should update your procedures and plan how you will handle requests within the new timescales and provide any additional information.

11 Data Protection Officers

You should designate someone to take responsibility for data protection compliance and assess where this role will sit within your organisation's structure and governance arrangements. You should consider whether you are required to formally designate a Data Protection Officer.

12 International

If your organisation operates in more than one EU member state (ie you carry out cross-border processing), you should determine your lead data protection supervisory authority. Article 29 Working Party guidelines will help you do this.

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What Are We Talking About

Data Protection vs. Cyber Security

Data

Protection...



...is the process of protecting data and involves the relationship between the collection and dissemination of data...It aims to strike a balance between individual privacy rights while still allowing data to be used for business purposes.

Cyber Security...



...is the body of technologies, processes and practices designed to **protect** networks, computers, programs and **data from attack, damage or unauthorized access.**



Two Key Aspects of GDPR

Consequences forGDPR violations

- Empowers supervisory authorities to assess fines that are "effective, proportionate and dissuasive."
- Two tiers of maximum fines depending upon severity of violation
 - »2% or €10M, whichever is higher»4% or €20M, whichever is higher
- Allows data subjects to seek monetary damages in court from controllers who violate their rights and from processors as well.



Two Key Aspects of GDPR

Data Breach notifications

- A personal data breach" is "a breach of security leading to the accidental or unlawful destruction, loss, alteration, unauthorized disclosure of, or access to, personal data transmitted, stored or otherwise processed."
- Data controllers must notify the supervisory authority "competent under Article 55"
- Notice must be provided "without undue delay and, where feasible, not later than 72 hours after having become aware of it."

- Notification to the authority must consist of at least:
- » Describe the nature of the personal data breach, including the number and categories of data subjects and personal data records affected;
- » Provide the data protection officer's contact information;
- » Describe the likely consequences of the personal data breach
- » Describe how the controller proposes to address the breach, including any mitigation efforts
- » If data processor experiences a mounty the controller
- Notice is not required if "the personal data breach is unlikely to result in a risk for the rights and freedoms of natural persons,"



LET'S PLAY "WHAT IF"...

Tesco Bank (UK) Data Breach

The Numbers

EARLY NOVEMBER 2016 £25IVI STOLEN FROM 9,000 ACCOUNTS

POSSIBLE EXPLANATIONS

- INSIDER THREAT
- MOBILE APP
- INSUFFICIENT INTERNAL PROCESSES
- REACHED THROUGH
 3RD PARTIES

What We Could Expect in the Future...

TESCO COULD FACE FINES OF UP TO "£1.9B" IF GDPR HAD BEEN IN EFFECT AT THE TIME*



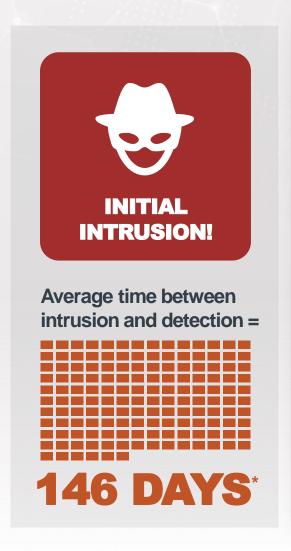
Looking to the Future - What GDPR Requires





JANUARY 2019						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

What Your Network Requires



	AUGUST 2018						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
			1	2	3	4	
5	6	7	8	9	10	11	
12	13	14	15	16	17	18	
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The Hacker's Advantage:

Window of Opportunity



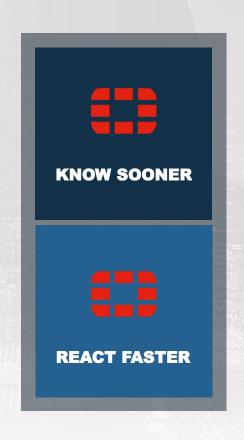




The Fortinet Objective:

Close the Window of Opportunity





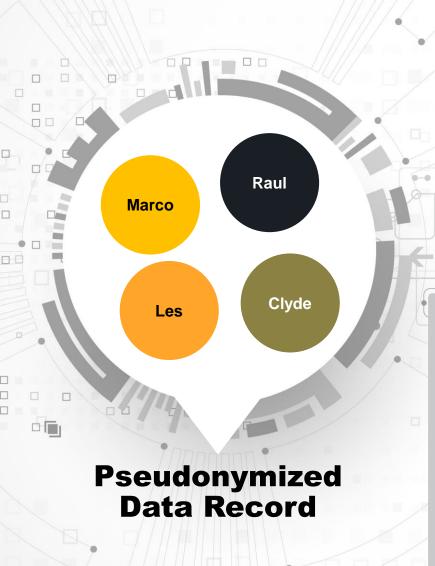


THE ROAD TO GDPR COMPLIANCE

KONTINUÁLNE POSÚDENIE RIZÍK

PSEUDONYMIZÁCIA A SEGMENTÁCIA

Pseudonymizácia vs. Anonymizácia

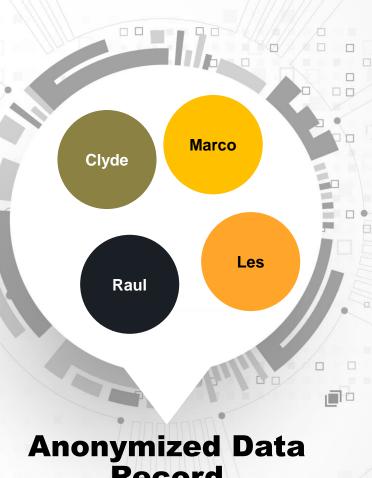


FERTINET.

Name	Token/Pseudonym	Anonymized
Clyde	qOerd	XXXXX
Marco	Loqfh	XXXXX
Les	Mcv	XXXXX
Les	Mcv	XXXXX
Marco	Loqfh	xxxxx
Raul	BhQl	xxxxx
Clyde	qOerd	xxxxx

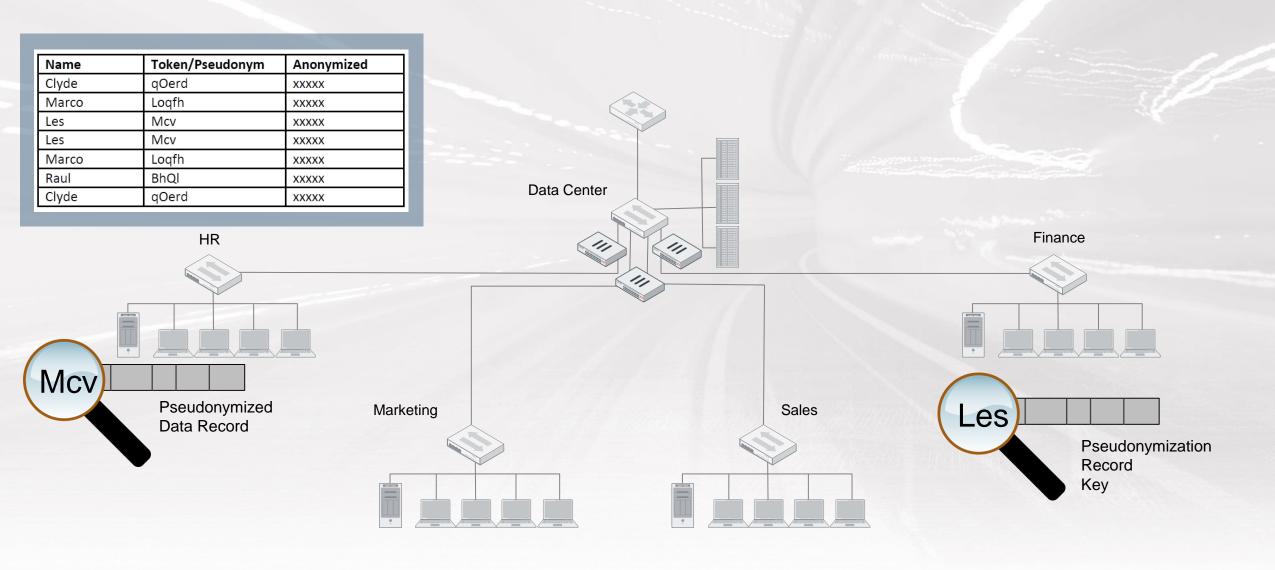
"Pseudonymizácia je metóda nahrádzania identifikovateľných údajov s reverzibilnou, konzistentnou hodnotou.

> Anonymizácia je zničenie identifikovateľných údajov."



Record

Segmentácia pre zvýšenú ochranu údajov



The First Step...

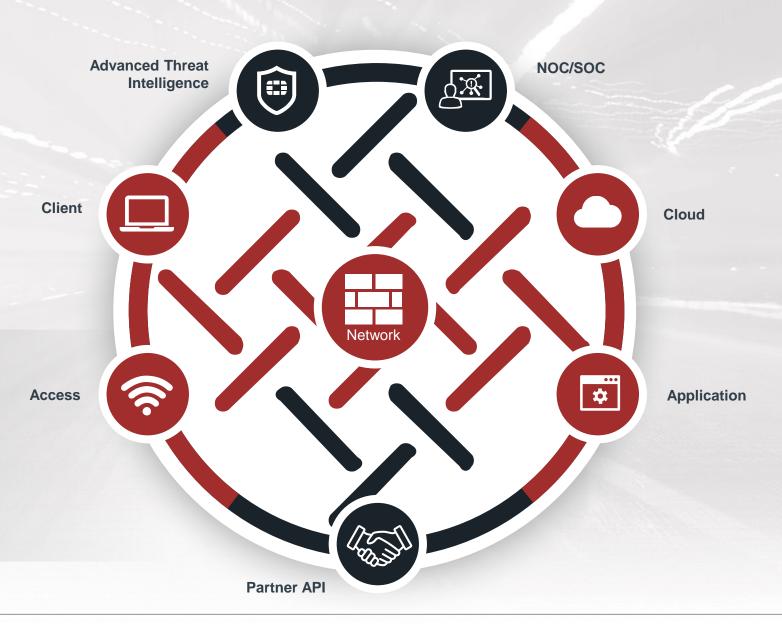
...towards GDPR Compliance



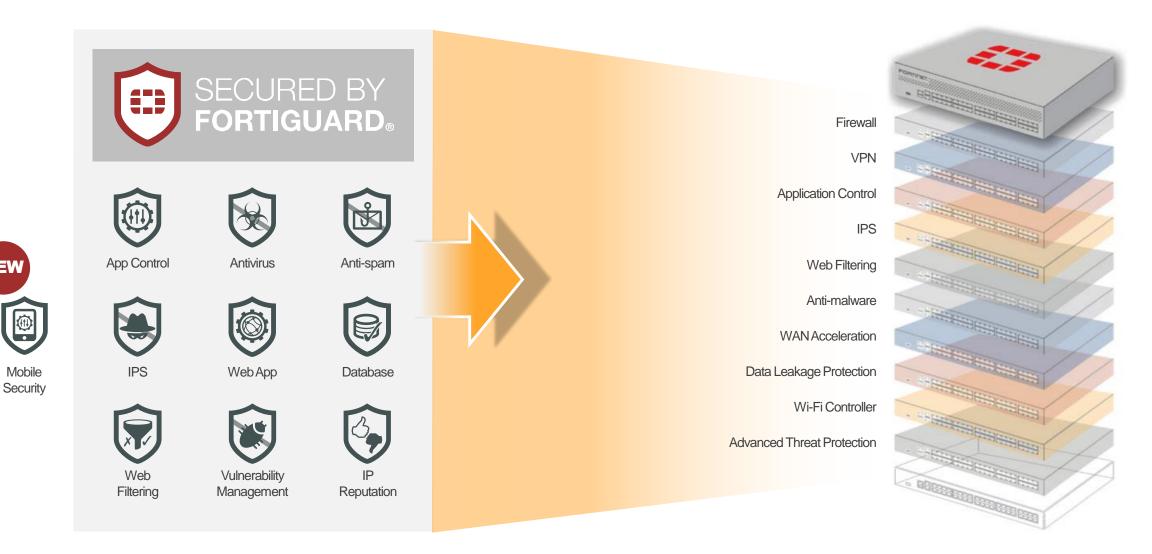








Security Services and Technologies





NEW



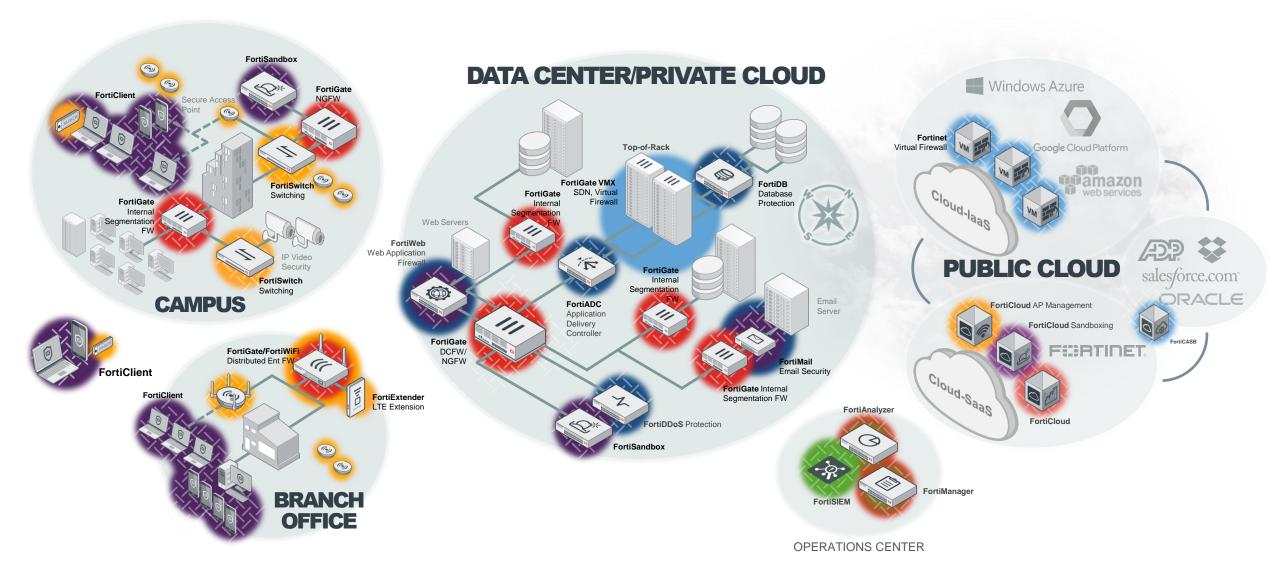












Comprehensive Security Solutions



ENTERPRISE FIREWALL

FortiGate

- Next-Generation FW
- Data Center FW
- Internal Segmentation FW
- Secure SD-WAN

FortiManager

FortiAnalyzer FortiGuard Services



CLOUD SECURITY

FortiGate VM (Virtual FW) FortiGate VMX (SDN Virtual FW) FortiGate VM for Public Cloud

- AWS
- Microsoft Azure
- Googe Cloud
- OpenStack-based
- FortiHypervisor **FortiCASB**

FortiGuard Services



ADVANCED THREAT PROTECTION

FortiSandbox FortiMail FortiWeb FortiClient FortiCloud Sandboxing FortiGuard Services



APPLICATION SECURITY

FortiWeb FortiADC **FortiDDoS FortiWAN** FortiCache FortiGuard Services



SECURE ACCESS

FortiAP FortiGate AP Management FortiCloud AP Management FortiWLC/WLM AP Management FortiSwitch FortiAuthenticator FortiToken FortiExtender FortiGuard Services



SECURITY OPERATIONS

FortiSIEM FortiManager FortiAnalyzer FortiGuard Services - Indicators of Compromise



FortiGuard

Since 2000, FortiGuard Labs has provided in-house, industry-leading security intelligence and research, powering the Fortinet Security Fabric and delivering a suite of advanced security services





Q2 2017 by the Numbers*

Exploits

- 184 billion exploit detections
- 1.8 billion average daily volume
- 6,298 unique exploit detections
- 69% of firms saw severe exploits



Malware

- 62 million malware detections
- 677,000 average daily volume
- 16,582 variants in 2,534 families
- 18% of firms saw mobile malware



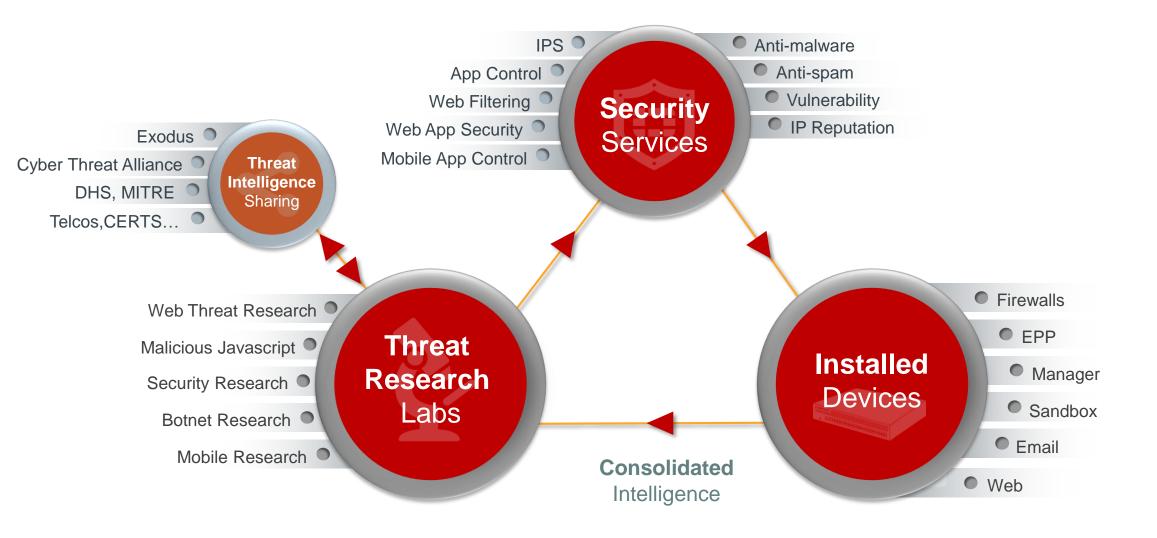
Botnets

- 2.9 billion botnet detections
- 32 million average daily volume
- 243 unique botnets detected
- 993 daily communications per firm





An Integrated Threat Intelligence Ecosystem





FortiGuard Threat Intelligence Projects































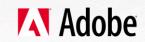






















The Road to GDPR Compliance

So Much More Than Just Technology







