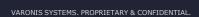


Our mission is to protect data from insider threats and cyberattacks.

Detect, Secure & Govern your GDPR data

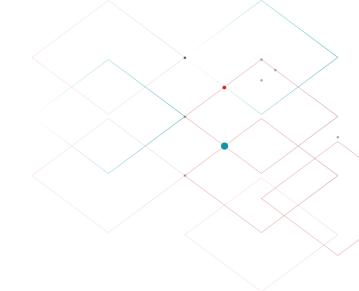


General
Data
Protection
Regulation



Agenda

- Varonis Who Are We?
- What is GDPR? Why do we need it?
- Varonis What do we do?
 - Detect
 - Prevent
 - Sustain
- GDPR Readiness How to get there
- Q&A





About Varonis

Started operations in 2005







• 6,000+ Customers





 Our mission is to protect your sensitive information from threats, automate timeconsuming tasks, and extract valuable insights from your data.

















What is the GDPR? Why do we need it?



GDPR concisely summarized by Wikipedia:

The General Data Protection Regulation (GDPR) (Regulation (EU) 2016/679) is a Regulation by which the European Commission intends to strengthen and unify data protection for individuals within the European Union (EU). It also addresses export of personal data outside the EU.

GDPR addresses many of the shortcomings in Data Protection Directive (DPD):

- Adding requirements for documenting IT procedures
- Performing risk assessments under certain conditions
- Notifying the consumer and authorities when there is a breach
- Strengthening rules for data minimization.

EU GDPR covers personal data (PII):

Think names, addresses, phone numbers, account numbers, and more recently email and IP addresses.



What are the new requirements?







Privacy by Design

Privacy by Design (PbD) has always played a part in EU data regulations. But with the new law, its principles of minimizing data collection and retention and gaining consent from consumers when processing data are more explicitly formalised.

Data Protection Impact Assessments (DPIA)

When certain data associated with subjects is to be processed, companies will have to first analyse the risks to their privacy.

Right to Erasure and To Be Forgotten

There's been a long standing requirement in the DPD allowing consumers to request that their data be deleted. The GDPR <u>extends</u> this right to include data published on the web.



What are the new requirements?







Extraterritoriality

The new principle of extraterritoriality in the GDPR says that even if a company doesn't have a physical presence in the EU but collects data about EU data subjects, for example, through a web site—then all the requirements of GDPR are in effect. In other words, the new law will extend outside the EU.

Breach Notification

A new requirement not in the existing DPD is that companies will <u>have</u> to notify data authorities within 72 hours after a breach of personal data has been discovered. Data subjects will also have to be notified but only if the data poses a "high risk to their rights and freedoms".

Fines

The GDPR has a tiered penalty structure that will take a large bite out of offender's funds. More serious infringements can merit a fine of up to 4% of a company's global revenue.



What are the new requirements?



Overall, the message for companies that fall under the GDPR is that awareness of your data —

- where is sensitive data stored
- who's accessing it
- who should be accessing it
- will now become even more critical.



The Usual Suspects



Why do we have this regulation?

Its all their fault







What Businesses haven't been doing









PbD is only as good as those you trust with access



WARONIS How We Do It



General Data **Protection** Regulation



Fundamental Unanswered Questions

There are many questions IT and the business can't answer:



Who has access to files, folders, mailboxes?



Who is accessing, modifying, moving, deleting files and email?



Which files contain critical information?



Which data is exposed to too many people?



Who owns data and how do I get them involved?



What data isn't being used?



User and Group information



Permission Information



Access Activity



Content Information





Management and Protection Methodology



DETECT

insider threats and security threats by analyzing data, account activity, and user behavior.



PREVENT

disaster by locking down sensitive and stale data, reducing broad access, and simplifying permissions.

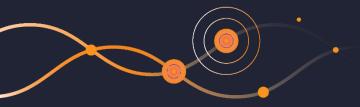


SUSTAIN

a secure state by automating authorizations, migrations, and disposition.





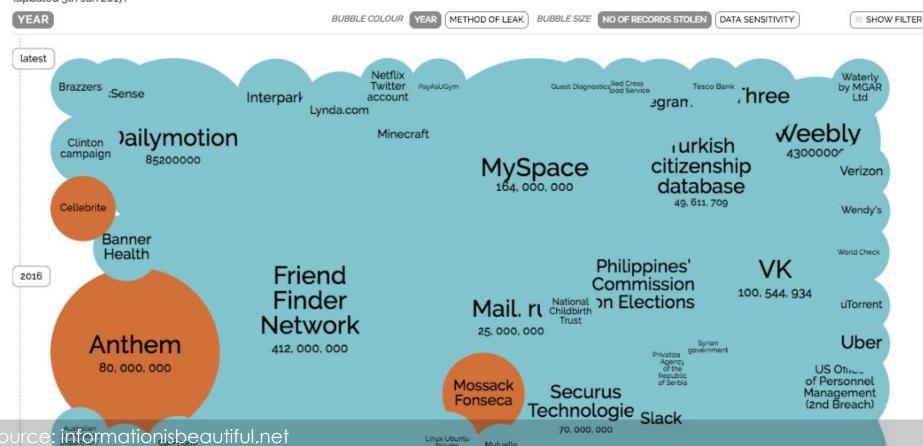


Detect A. Incident Response Plan

World's Biggest Data Breaches



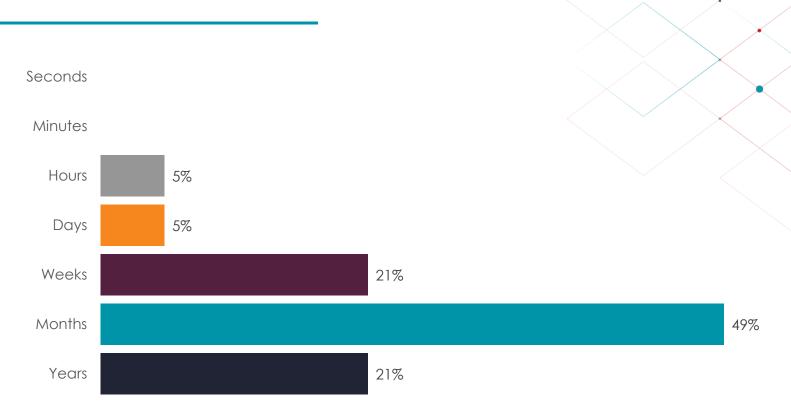
Selected losses greater than 30,000 records (updated 5th Jan 2017)



Linux Ubuntu

Mutuelle

Discovery Timeline for Data Breaches



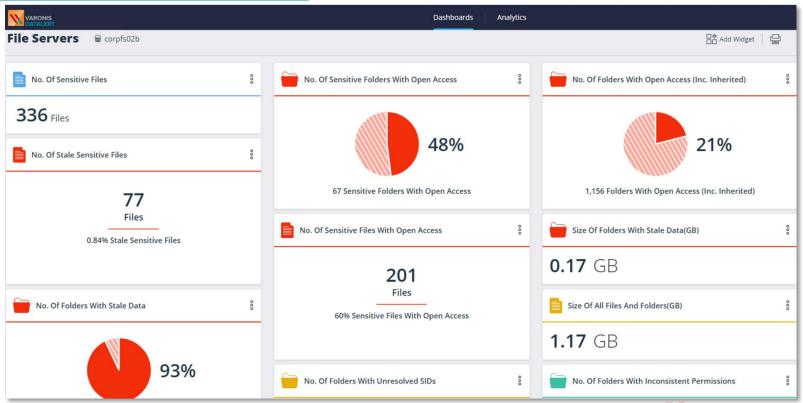


Anatomy of a Breach, or "Kill Chain"



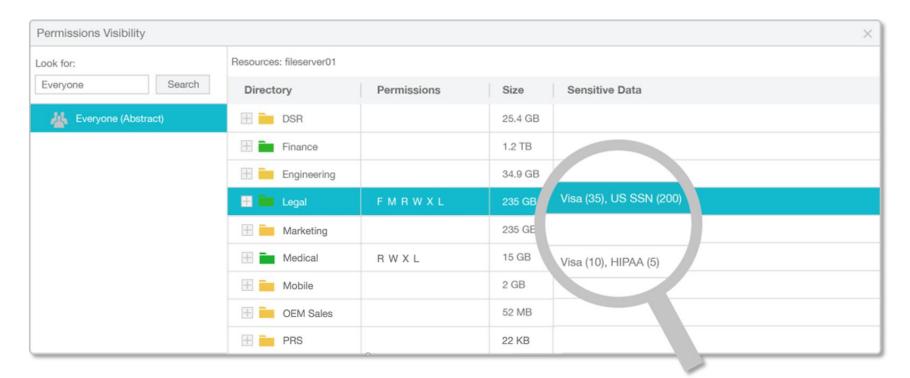


Conduct a Full Map Your Environment (that's what hackers do!)



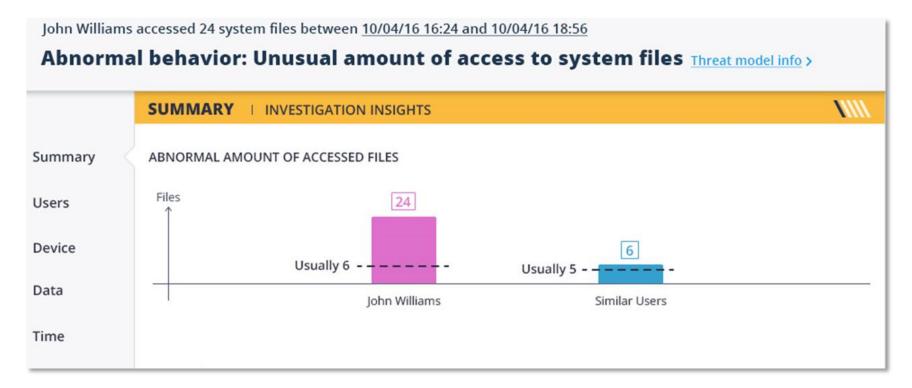


Understand Where Sensitive Information Resides



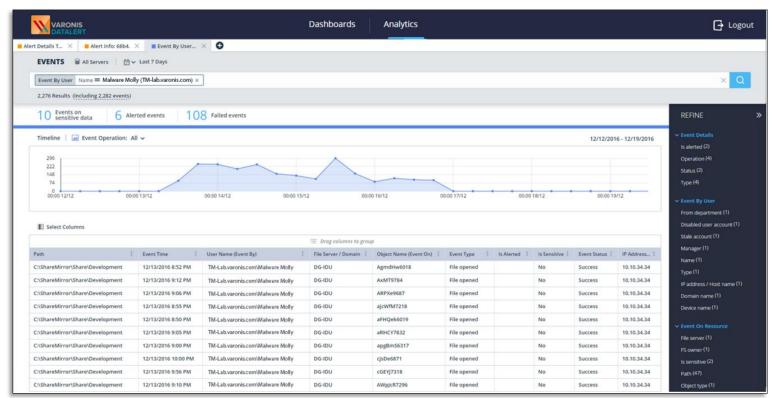


Normalise User Behaviour and their Data Access Patterns





Investigate with hi-fidelity audit logs



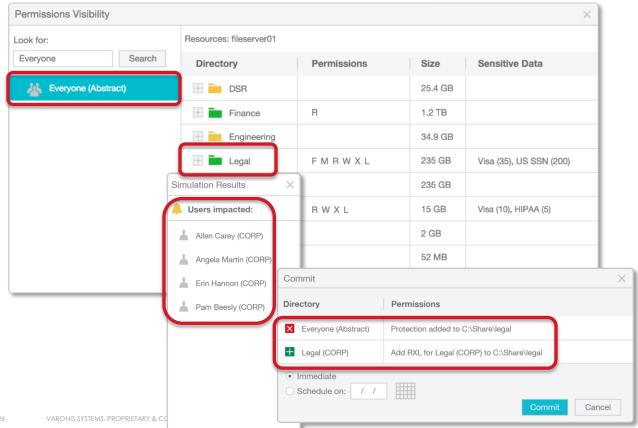






Prevent Privacy by Design

Remove Everyone Access

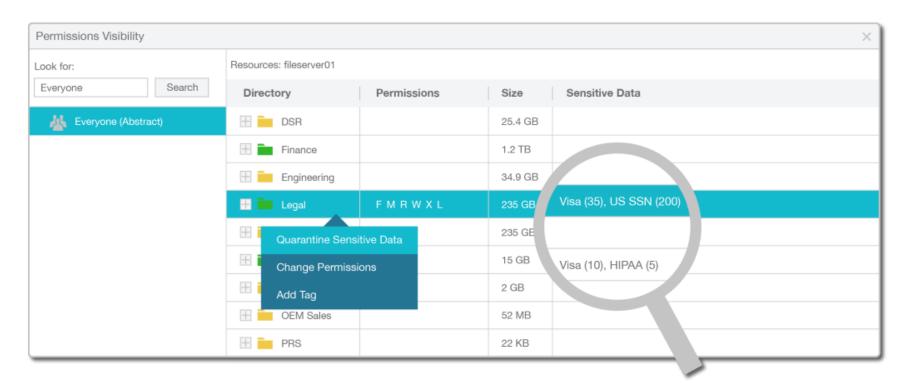




Warning! Erin Hannon will lose access to data she's been using!



De-risk through data discovery & deletion



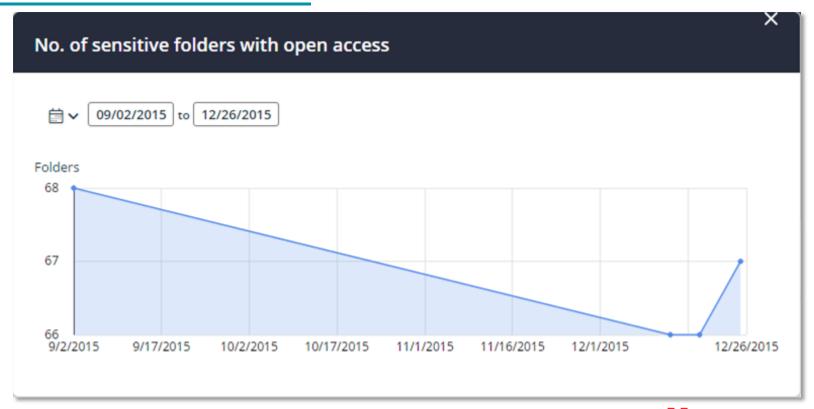


Remove Excessive Access

Recommendations				×
Resources: fileserver01				Look for:
Directory	Permissions	Size	Sensitive Data	Search
⊞ DSR	FMRWXL	25.4 GB		Domain Admins
⊞ Finance X	RWL	1.2 TB	American Exp	⊞ 🕌 IT_System
Engineering		34.9 GB		Group_Finance
⊞ Legal	FMRWXL	235 GB	Visa (35), US SSN (20	Kevin Malone (CORP)
H Marketing		235 GB	Visa (118), SOX (502	
H Medical	RWXL	15 GB	Visa (10), HIPA	Pam Beesly (CORP)
H Memcached		2 GB		Dwight Schrute (CORP)
⊞ Mergers X	RWXL	52 MB		Scar Martinez (CORP)
⊞ PRS		22 KB		Lanley Hudson (CORP)



Evidence Success





Address other Risk Vectors

Inactive users and groups

Overly delegated groups

Looped nested groups

Broken ACLs

Folders with unique permissions

Stale data

Delegated tasks in AD

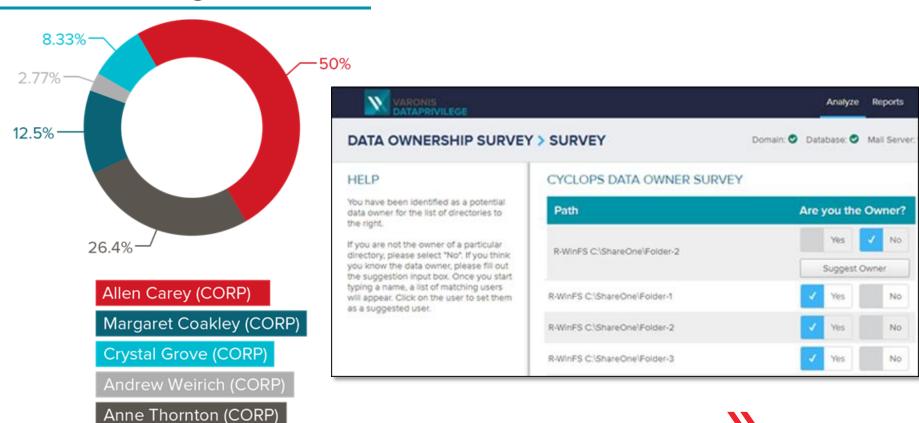






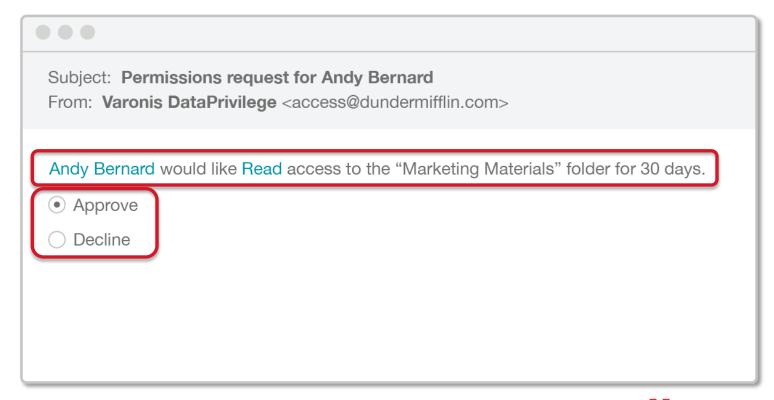
Sustain Accountability by design

Find and Assign Data Owners





Automate Authorisation



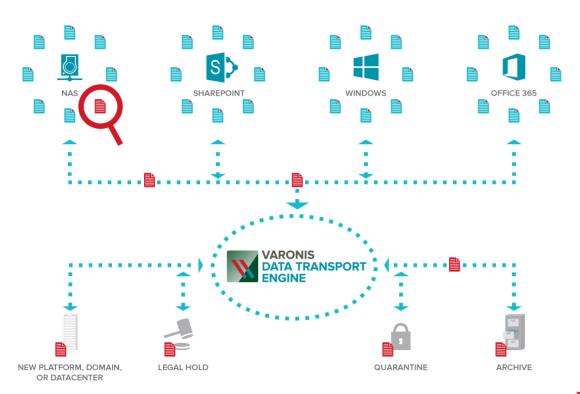


Sustain Privacy by Design

Status	Users		Permission	Decision and Explanation	
	1	Allison Scafer (CORP)	Exe-Write	Keep	○ Remove
	1	Andrew Carlisle (CORP)	Exe-Write	Keep	○ Remove
×	1	Andrew Weirich (CORP)	NA	○ Кеер	Remove
	1	Andy Welch (CORP)	Execute	Keep	Remove
	1	Anne Lampkin (CORP)	Execute	Keep	Remove

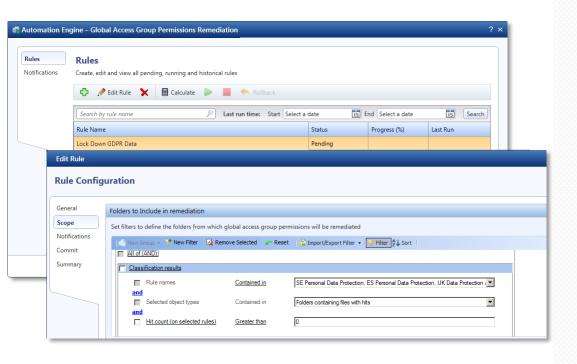


Automate Defensible Deletion and Migrations



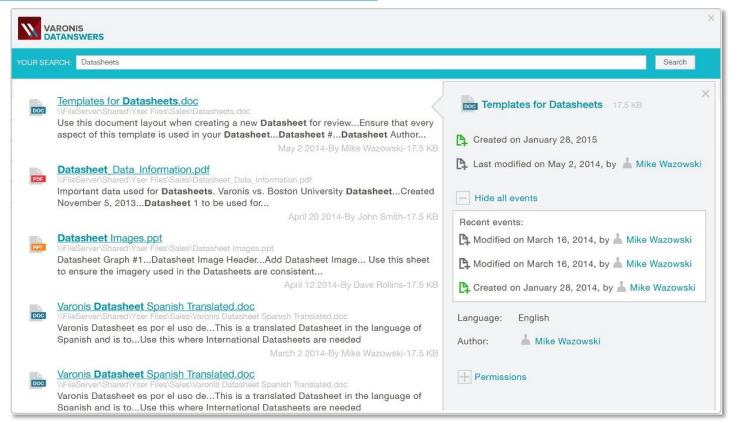


Never see everyone access again



The Automation Engine allowed us to remediate the contradiction to PbD that global access presents. It was efficient, accurate and didn't impact the business.

Respond to Subject Access Requests









What do others say about preparing for GDPR?



Preparing for the General Data Protection

Regulation (GDPR) 12 steps to take now

You should review how you are seeking, obtaining and recording consent and whether you need to make any

You should start thinking now about putting systems in place to verify individuals' ages and to gather parental or guardian consent for the data processing

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

Protection Impact Assessments

You should familiarise yourself now with the guidance the ICO has produced on Privacy Impact Assessments and work out how and when to implement them in your organisation.

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

If your organisation operates internationally, you should determine which data protection supervisory authority you come under.

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.

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.

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

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.

ico.org.uk

You should look at the various types of data processing you carry out, identify your legal basis for carrying it out and document it.

You should update your procedures and plan how you

will handle requests within the new timescales and

provide any additional information.

VARONIS





How to Get There

Let's break down some of the challenges in the new GDPR and how to address them:

GDPR Article	What does it mean	How to addressit
Article 25: Data Protection by Design and By Default	Embrace "Accountability and Privacy by Design" as a business culture.	Safely remediate access controls to Least Privilege.
Article 30: Records of Processing Activities	Implement technical and organizational measures to properly process personal data.	 Create asset register of sensitive files Understand who has access Know who is accessing it Know when data can and should be deleted.
Article 17: Right to Erasure and "tobe forgotten"	Be able to discoverand target specific data and automate removal.	Find it, flag it, remove it.

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How to Get There

GDPR Article	What does it mean	How to addressit	
Article 32: Security of Processing	 Ensure least privilege access Implement accountability via Data Owners Provide reports that show policies and processes are in place and are successful. 	Automate and impose Least Privilege through Entitlement Reviews and proactively enforced ethical walls.	
Article 33: Notification of personal data breach to the supervisory authority	- Prevent and alert on data breach activity - Ensure an Incidence Response Plan is in place.	Detect abnormal data breach activity, policy violations and real-time alert on it as it happens.	
Article 35: Data Protection Impact Assessment	- Quantify data protection risk profiles.	Conduct regular quantified data risk assessments.	

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Get your free Data Risk Assessment

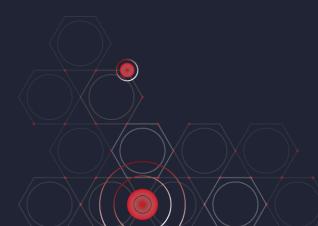


Inform your GDPR Strategy Today









Thank You

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