

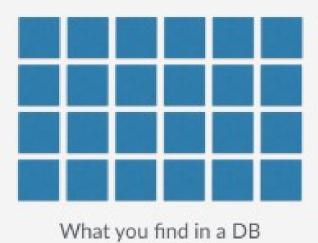




Personal data discovery and encrypted communication

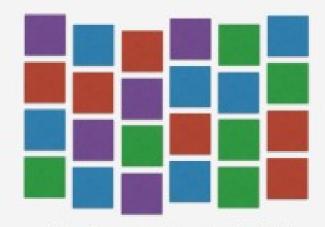
Martins Jurjans Squalio Estonia Member of the board

StructuredData



(typically)

UnstructuredData



What you find in the 'wild' (text, images, audio, video)



With the **General Data Protection Regulation** Regulated Data is Everywhere



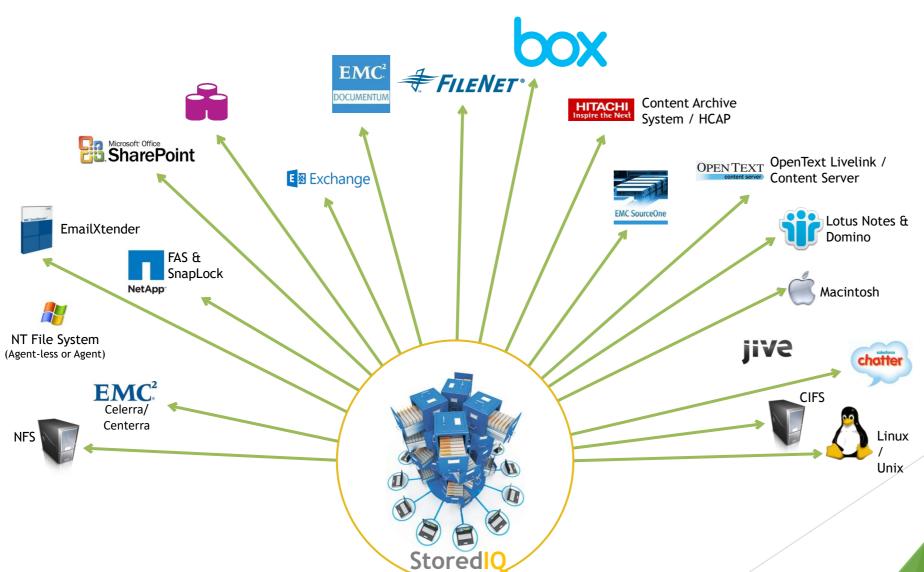
ou can't protect what you can't find!



GDPR - Where to start?!

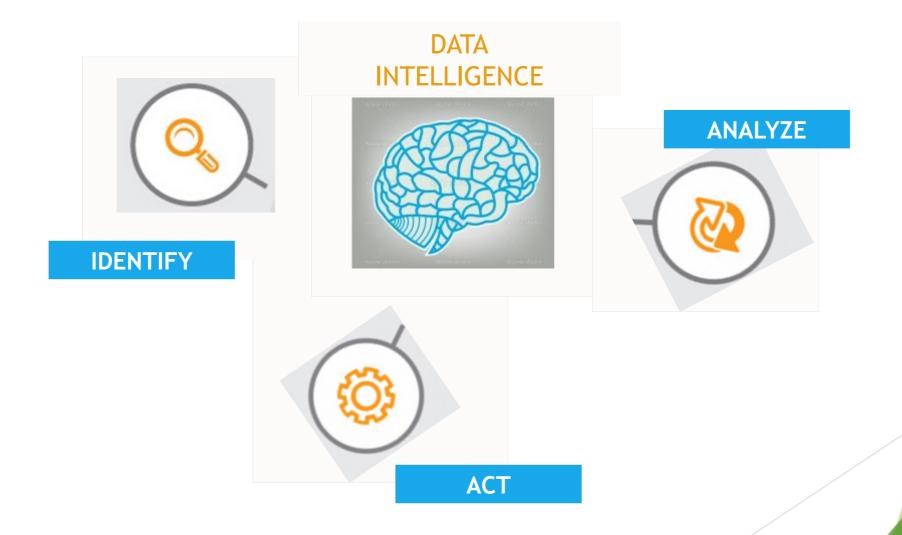
We need to protect private data, but do we know where they are?

Analyze and manage data in their original location





StoredIQ approach: data about data



GDPR – Typical Gaps Biggest Opportunities for Improvement

Typical organizations retain far too much ROT data

Redundant, Obsolete and Trivial

- Redundant data—duplicates that are no longer of value
- ✓ Data that has aged past its useful life
- ✓ Data that has no ongoing business value

Typical organizations struggle with dark data

No insight into it, yet any breach can uncover....

- Personally identifiable information (PII)
- ✓ Highly confidential information (HCI)
- ✓ Payment Card Industry (PCI) data

Dark data risk include

Sources such as...

- Email, chat, file shares, SharePoint, desktops, etc.
- Regulatory data stored in the wrong location with no visibility to it's lifecycle
- ✓ Can all be eDiscovery and privacy blind spots

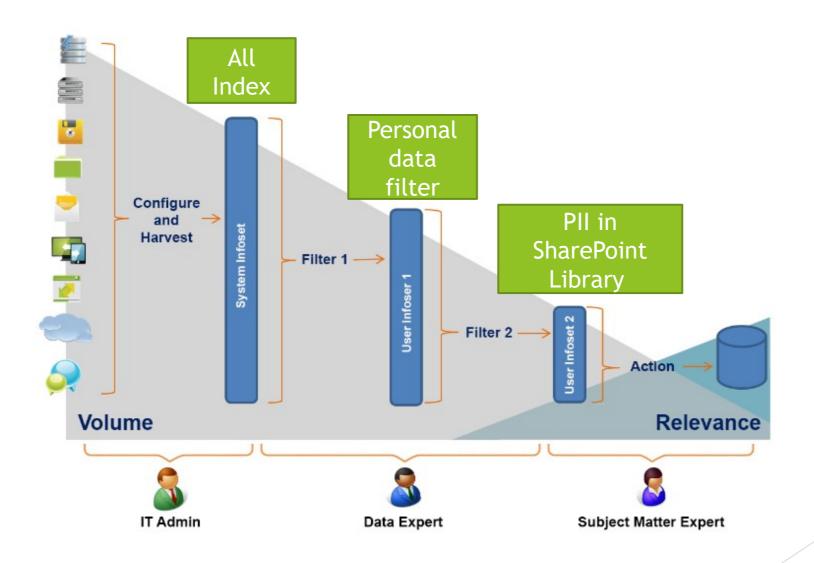
70%
Typical amount of

Typical amount of unstructured data that has no value

Organizations are unaware of sensitive content residing outside of expected security protocol

35%-45% of data created this year will hold no business value in one year - Gartner 2014

StoredIQ harvesting and filtering process



Finding Sensitive Information

Regular expressions

- Credit card numbers
 - Utilizes a pre-built macro that includes regex and Luhn algorithm
- Bank info (SWIFT or IBAN)
 - re:"^DE\d{2}\s?([0-9a-zA-Z]{4}\s?){4}[0-9a-zA-Z]{2}\$" #IBAN
- Other account/document identifiers
- Government ID Numbers
 - re:"[A-Za-z0-9+/]{22}[A-Za-z0-9+/=][A-Za-z0-9+/=]" #Austria

Keyword/term matching

• Specific name, address, ID number etc

Word Lists

Output from HR & CRM systems, other data sources for related keywords

Logical and special operators (AND, OR, Within Proximity, PRE etc.)

You found some personal/sensitive info...now what? You can take ACTION!

Policy

- Determine whether the data has business value
- Determine organizational policy for how that data category should be treated going forward

Organizational

- Remind users that personal information is not allowed on file server/desktop/etc
- Could utilize Notification/Acknowledgement system by distributing Reports

Move

To more secure location (if move is supported by SIQ for given data source)

Delete

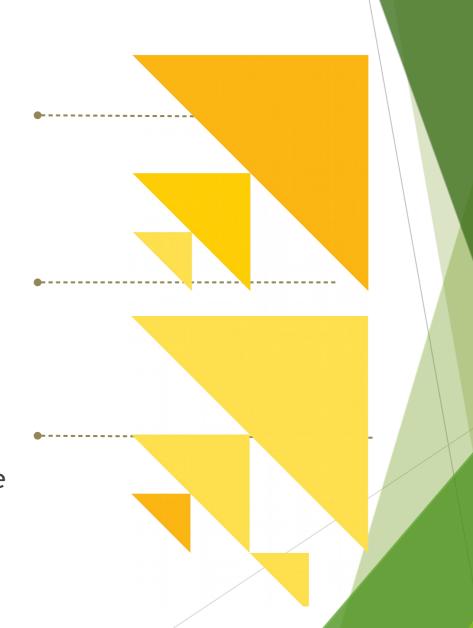
• If delete is supported by SIQ for given data source

Key benefits

Find the data that matters — Properly discover, classify and manage information according to business value to reduce risk and cost

Identify sensitive content and act — Find misplaced client data, PCI and privacy-regulated data and act to compliance reduce risk

Get rid of old, obsolete data — Delete nonbusiness, aged and obsolete data to reduce data volume





IBM StoredIQ DEMO

https://www.youtube.com/watch?v=ZX5tFtVC-y0

Secure email communication with Cryptshare

- Right of access by the data subject and right to rectification using Cryptshare
 - Encrypting data transfer to receiver possible
 - Ad-hoc use (supports Outlook and Office 365)
 - Metadata is also encrypted
- Data protection settings at a high level ... including those for outgoing e-mails
 - Protective e-mail classification regulates the security settings for users in the enterprise
 - Central management of policy settings bring IT Compliance
 - Highly secure encryption is used at times (256-bit encryption)



https://www.youtube.com/watch?v=R5OQR87wMVM

https://www.youtube.com/watch?v=ciNHn38EyRc

Cryptshare automation use cases

- From your file system: sending documents and files such as catalogues, technical descriptions, software updates or manuals to clients or business partners whenever new versions of these are available.
- From your ERP system: deliver orders, order confirmations, delivery notes, invoices etc. to clients or business partners automatically whenever these documents get generated by your ERP system.
- From your website or web shop: deliver documents to your client in a secure and traceable way, for example documents or files that have been selected for download, generated by your web application or purchased from your shop.
- From your HR system: send payslips or commission statements to your employees securely.



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