1touch.io
Data Aware Security

Inventa™ for Cryptographic Discovery

Quantum computers will render much of the often-used traditional encryption useless in terms of protecting data. The U.S. Government and NIST are creating new algorithms that can withstand quantum computers, so organizations are beginning to prepare.

50%

*Respondents to a recent **Deloitte** survey believe their organization is at risk for "Harvest now, decrypt later" attacks where bad-actors hoard encrypted data until quantum computers are ready to break the protections*

Where to Begin

Cryptography is used widely in any organization – especially RSA public-key encryption which will be broken by quantum computers. To begin, organizations need to discover, classify and inventory their cryptographic assets before they can prioritize remediation.

Unknown Unknowns are the weak link

Hardware Security Modules (HSMs) are known repositories that manage encryption today, so they are a good starting point when beginning the quantum-safe journey. However, what is needed at this stage is an understanding of where encryption is being used outside of the IT organization – where a developer stood-up an environment and took the steps to protect the data but stored the key in central storage, so no one knows about it…

Prioritization is key

Once a clear inventory is created, the next step is prioritizing what cryptography to replace and in what order. This needs to come from an understanding of data sensitivity and time-value of the data to protect the crown jewels.

10 seconds

Estimated time it'll take a 4099-qubit quantum computer to break RSA-2048

1touch.io helps today in the quantum safe journey by discovering, classifying and inventorying cryptographic assets in central storage and across the network. Uncover insights by correlating Inventa's granular knowledge of both what cryptography is being used and what is it protecting to drive prioritized remediation.

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Inventa™ is the Key

Inventa is a sensitive data intelligence solution with unprecedented analysis techniques for data mapping and classification. With Inventa, sensitive data is discovered and tracked continuously, supporting data minimization, lineage identification, and ongoing monitoring of transactions into and out of the organizational network.

DISCOVER

Map all copies of sensitive data & analyze lineage

MERGE

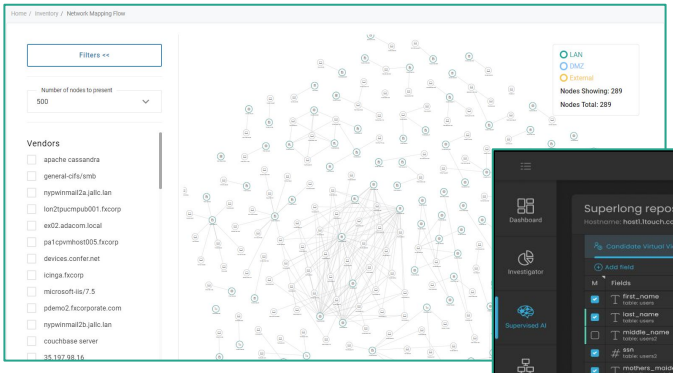
Merge all sensitive data and copies into a single repository

MONITOR

Monitor network to identify sensitive data transactions

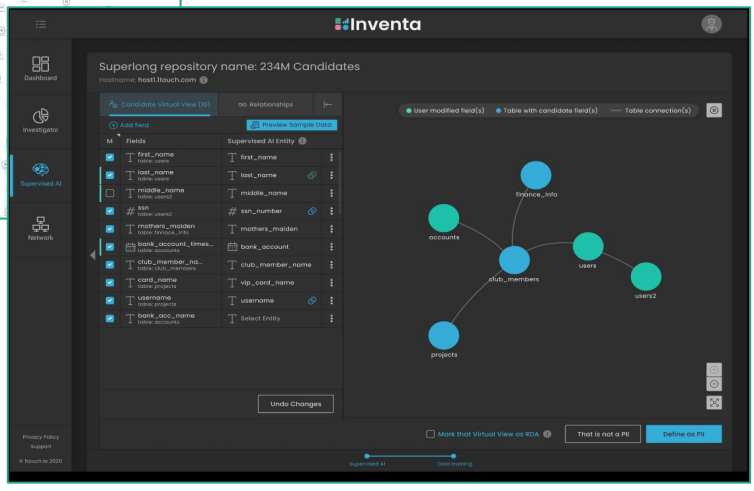
INTEGRATE

integrate with 3rd party platforms to generate alerts based on discovery data



Identify data lineage for each data entity, and track data transfer into, within, and out of your organizational network

Discover, map, and merge all sensitive data copies in your organizational network



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