

Info ASPEN on Azure



Microsoft Azure - the cloud platform for modern business



Challenges

- GDPR compliance
- Anonymization of personal data
- Long-term collection and storage of system logs
- Sharing of system logs across institutions

Long-term collection and storage of system logs is challenging. The analysis of system logs requires advanced text processing techniques. For very large volumes of logs, the analysis is highly time-consuming and requires a high level of expertise. There is a need for new method of anonymization of data within system logs.



Ideal Solution

- Simple solution for GDPR requirements for personal data anonymization and log storage
- One click to start sending application logs
- All logs personal data will be anonymized or pseudonymized in the real time

With ASPEN service, customers can start sending system or application logs to ASPEN Azure just with one click, and we guarantee that in the real time, before storing, all logs personal data will be anonymized/pseudonymized and stored for a chosen period of time. Analysis of unlimited amount of data - big data.



Desired Outcomes

- Unlimited amount of data can be stored and analyzed.
- Address any day from the past, in few seconds time.
- One-way cryptographic function, hiding real data and making it irreversible

Private Data Anonymization service on Azure infrastructure, provide organizations with a simple solution for their GDPR requirements for personal data anonymization and log storage. Video visualization in the real-time (or retrospectively) of all the interactions inside customer's systems.



Private Data Anonymization service on Azure infrastructure, provide organizations with a simple solution for their GDPR requirements for personal data anonymization and log storage. With our ASPEN service, they will be able just by a click to start sending their system or application logs to ASPEN Azure, and we guarantee that in real time, before storing, all logs personal data will anonymized or pseudonymized and stored for a period they choose. All data will be stored in Azure cloud, available for analyzing unlimited amount of data using our web access service.

On top of that, we will allow customers to watch, like in a movie, who was doing what inside their systems, in real time or retrospectively. There will be additional service for real time correlation and automated notification on standard misuse scenarios.

Compute

- ✓ Virtual machines
- ✓ Availability sets
- ✓ VM Scale Sets

Storage

- ✓ Disks
(Standard, premium)
- ✓ Blob storage
(Hot, cool)
- ✓ Files

Networking

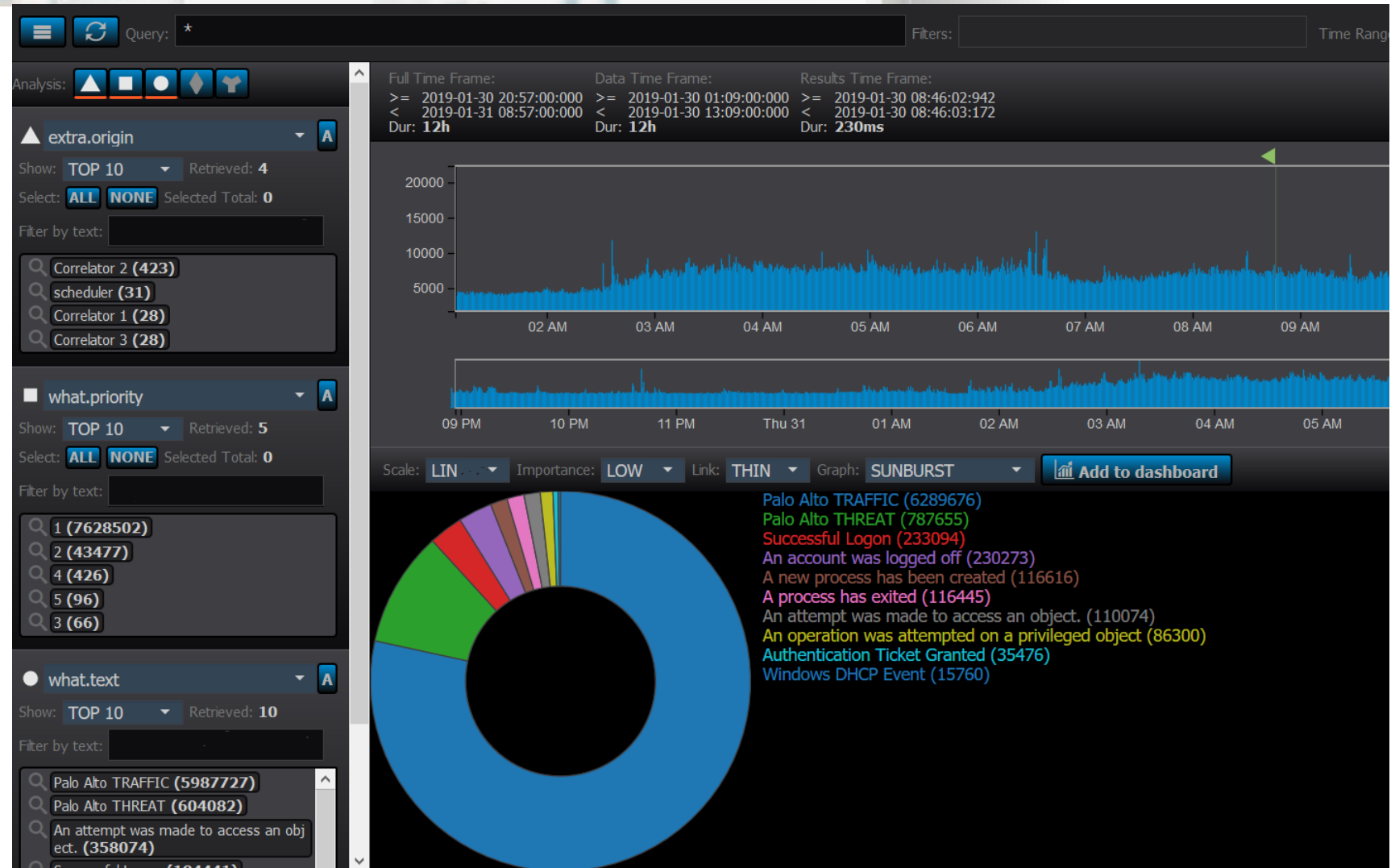
- ✓ Virtual networks
- ✓ VPN, ExpressRoute
- ✓ Load Balancer
- ✓ DNS, Traffic Manager

Management

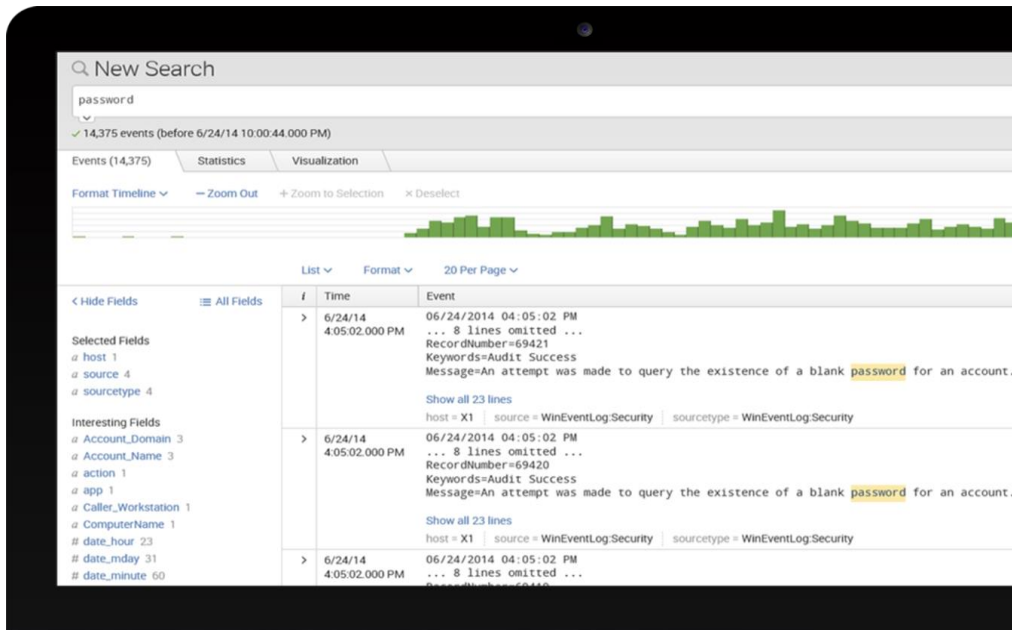
- ✓ Azure Resource Manager (ARM)
- ✓ Azure Active Directory
- ✓ KeyVault

Pseudonymized Data Analysis Interface

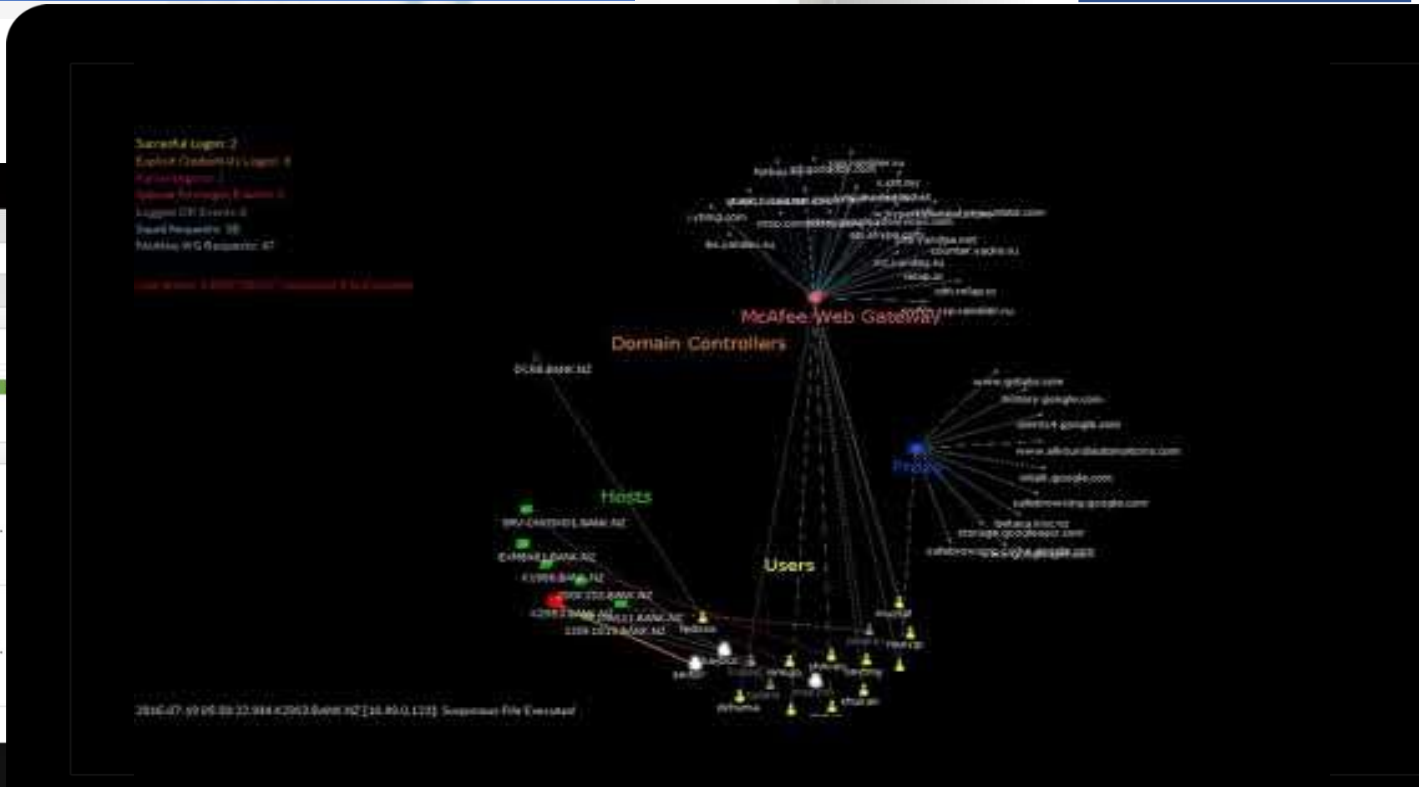
- Our architecture allows to address any day from the past, in few seconds time.
- Unlimited amount of data can be stored and analysed.
- It doesn't matter if you are looking in events hours ago or years ago.



Visual Reconstruction

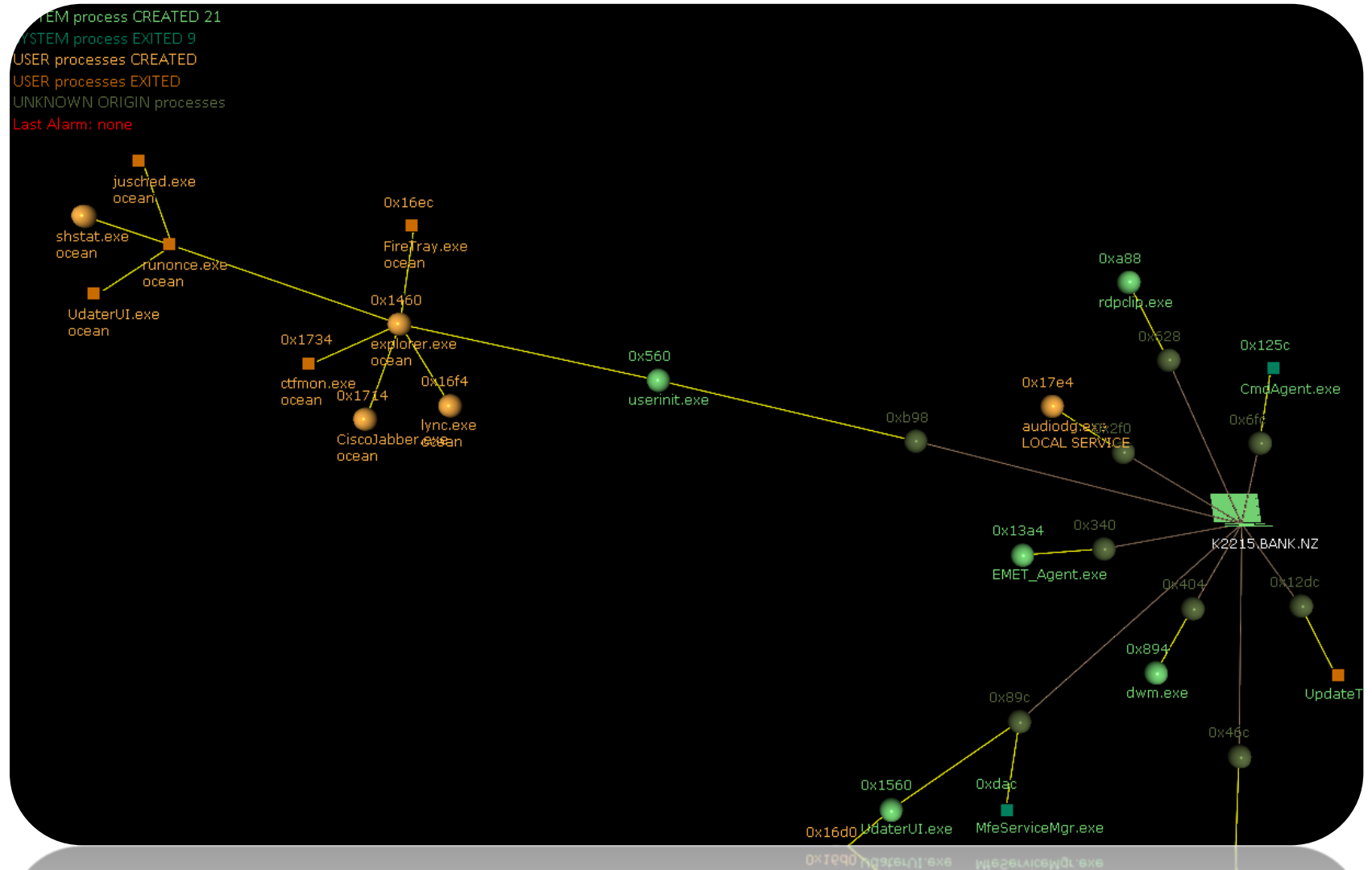


We transfer text logs

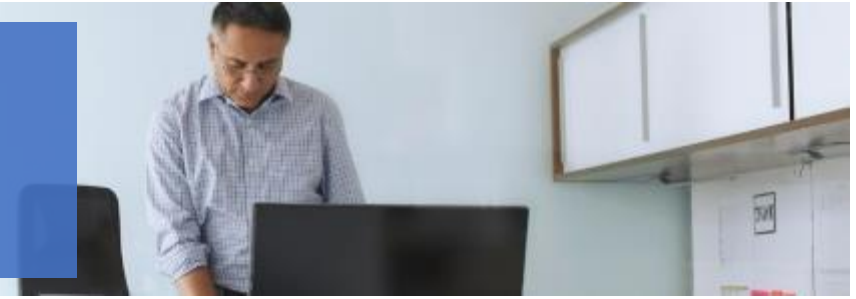


Into interactive, 3D dynamic visuals

- Data will be pseudonymized in real time with a **one-way cryptographic** function, hiding real data and making it irreversible even to us, service providers.
- Still it will allow analyses and correlation between events.
- Optionally, on a legal request, we will offer capability to confirm if pseudonymized data can be specific native data with additional information known only by customer.



Informatika's team of experts + Microsoft Azure services



Microsoft is the only Cloud provider that combines a Hyper Scale cloud offering, a truly hybrid platform and an Enterprise Level Support for your cloud workloads with Enterprise level SLAs.

Informatika's solutions on Azure platform

Pseudonymized Data Analyses Interface

- Address any day from the past, in few seconds time.
- Unlimited amount of data can be stored and analyzed.
- It doesn't matter if you are looking in events hours ago or years ago.



Visual Reconstruction

- Video visualization in the real-time (or retrospectively) of all the interactions inside customer's systems.
- Transferring text logs into interactive, 3D dynamic visuals



Forensics On a Click

- Data will be pseudonymized in real time with a one-way cryptographic function
- Hiding real data and making it irreversible even to us, service providers
- Still it will allow analyses and correlation between events

