ABOUT THE SPEAKER

Greg Tinker

CTO of Anexinet
- Over 20 year in IT security, Automation, AI/ML, Digital transformation, application development
- Holder of multiple patents, disclosures, publications

Most importantly:
- Husband and best friend to my loving wife Kristen of 21 years and happy father of two - Ashley (14), and Ethan (10)
A large North American financial company, has a massive object storage solution experience events that impacted business.

- Performance issues with no ability to identify root/cause
- Lack of visibility into key telemetry data metrics
- Massive deployment with inability to match scale of production environment
- Failure to detect fraud events and trigger corrective action in a timely manner

**OUR SOLUTION:**
Deploy a mission critical monitoring solution to identifying and prioritizing metrics that provided actionable insights in real-time.

- Leverage Python scripts to extract various S3 data elements
- Develop elegant Grafana dashboard to display KPI’s with connections to various data sources W/ Elasticsearch
- Identify performance issues in seconds/minutes, Not days/weeks
- L3 Support to provide immediate remediation when issues are identified
- Identify “events” and act with RPA

**CASE STUDY**
Security, Fraud Detection Performance Monitoring +
A large transportation company requested a HPC environment to ingest, process, and analyze video data as part of transportation safety concerns.

**OUR SOLUTION:**
HPC to handle Big Data Sources (Video / Pictures) W/ Real-time (RT) processing to deliver content feedback for adjustments in real space.
Power of Anexinet W/ Trusted partners to address covid-19 Response
A new rapid response COVID-19 knowledge discovery solution

Schema-less data mining for rapid COVID-19 knowledge discovery

Data sources:
- Tweets (CSV)
- Web (XML/JSON)
- COVID-19 (CSV)
- NLM (nested JSON)
- CORD-19 (nested JSON)
- NER (nested JSON)
- Harvard (nested JSON)
- GISAID (nested JSON)
- Cyber (government) (CSV/Windows)

Enterprise mission-critical server

Raw

Data cleansing (raw to clean)

Dirty

Transformations

Clean

Dirty

CEP

Data visualization Exploration Mining

S3-compliant cloud storage

HPE Apollo 4200 Gen 10 storage server x 6

K/V

Memory-driven ML pipeline instantiation

SQL Client

R/T analysis service

Domain experts:
- M.D. Virologist
- Epidemiologist

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