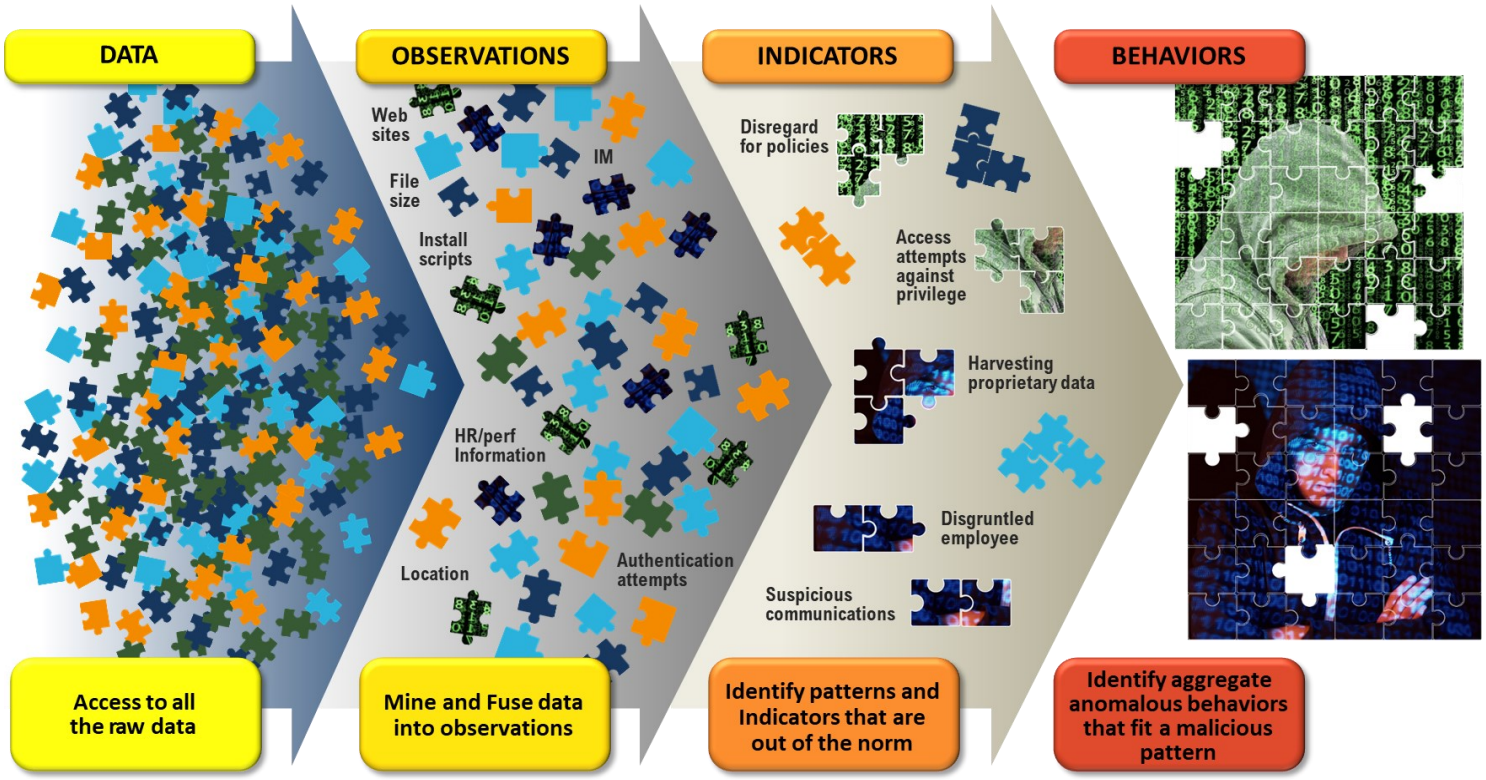
BIG DATA
PLATFORM

It's All About the Data

On today's virtual battlefield, the omnipresent threats are innovative, swift, and powerful. The ramifications of cybersecurity breaches are catastrophic. The keys to winning the battle are often not glaring red flags but tiny anomalies hidden in the massive data sets of routine electronic transactions. To find these critical clues, the Defense Information Systems Agency (DISA) developed a suite of solutions that collect data from DoD networks as well as provide the analytics that make it useable.
The backbone of these solutions is the Big Data Platform (BDP), a DISA-controlled software baseline that provides a distributed architecture for ingesting and storing large datasets, building analytics, and visualizing the results. A dynamic, extensible, and scalable cloud-based analytics and web-based visualization software platform, BDP was designed to support defensive cyber operations and enhance the cybersecurity capabilities of the DoD.



BEAT and the BDP

BEAT's expert Data Science, DevSecOps, and Engineering SMEs participated in the development and implementation of DISA's BDP. Our team has extensive experience building and operating extreme-scale application and data environments across a variety of technology architectures (e.g., microservices, distributed, mesh, cloud-native) employed by platforms such as Amazon Web Services (AWS), Azure, Kubernetes, Docker, Kafka, Hadoop, Spark, and Accumulo. We have developed the automated orchestration of numerous data pipelines (e.g., discovery, ingestion, preparation, storage, processing, exposure / dissemination). These environments have provided multi-tenant access to thousands of applications, databases, messaging queues, and analytics while serving over 30 Petabytes (PBs) of data.

We engineer custom visualizations for analytics enabling tools such as Kibana that allow data scientists dive further into the results. Ensuring maximum capability and flexibility while supporting scalability based on user demand, BEAT has orchestrated a range of application servers, runtime environments, load balancers, and proxies, including Node, Jetty, Nginx, and cloud-native services (e.g., Elastic Load Balancer).

B.E.A.T.

bdp
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Our goal at BEAT is to transform data into meaningful situational awareness and actionable information for decision makers at every level.

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Relevant Corporate Experience

BDP Cyber Operations Based Rapid Analytics (COBRA); 24th Air Force/AFCYBER

BEAT led the design, deployment, operations, and maintenance of the Big Data Platform (BDP) Cyber Operations Based Rapid Analytics (COBRA). BEAT delivered a cloud-hosted, big data analytics capability comprised of open source and Government-owned technology.

Unified Platform Data Science and Infrastructure; AFLCMC Unified Platform (UP)

BEAT provided expertise and support for the UP Project Management Office data science and engineering activity through all levels of the UP development process. BEAT performed tasks related to prototyping, development, testing, and deployment of software to support the UP.

Analytics Development Program Implementation Services (ADPIS); 35th Air Force Intel Squadron

BEAT provided data science support to cybersecurity-related analytics development for 16 AF/AFCYBER and United States Cyber Command (USCYBERCOM) requirements including predictive, descriptive, and presumptive modeling as well as machine learning and artificial intelligence.

Enterprise Logging Ingest and Cyber Situational Awareness Refinery (ELICSAR) CS&DT; AFLCMC/AFCYBER

BEAT developed orchestration/automation tools for the Air Force Life Cycle Management Center (AFLCMC) cyber enterprise. Our engineers built a solution using modern DevOps tooling to accomplish the automatic provisioning of resources in AWS GovCloud as provided by Cloud One.

BEAT
802 E. Quincy St
San Antonio, TX 78215

CAGE: 5KW79
UEI: U3QJUBM7ZFA6

Christian J. Chekroun USMC (Ret.)
Senior Vice President, BEAT
M: 843-813-4897 | **O:** 210-399-1136
christian.chekroun@beatllc.com

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Standard
Consulting Partner
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CMMI DEV/3

ISO 27001:2013 INFORMATION SECURITY

ISO 9001:2015 QUALITY ASSURANCE

ISO 20000-1:2018 SERVICE MANAGEMENT

LEAD ◆ INNOVATE ◆ DELIVER