

SECURING INTELLIGENCE IN AN OPEN HYBRID CLOUD

Stories from the DoD and IC

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FOUNDATIONAL BLOCKING & TACKLING

Key **infrastructure** themes from Jennifer Kron's presentation:

- Functional testing for identity & access management, data protection, audit
- Perform continuous diagnostics and monitoring
 - Must have consistent measurements across multiple environments
- Standardized implementations
 - Baselines?
 - Service Catalogs?
 - Platform as a Service (PaaS)?



FEDERATED DATA ACCESS

Key data themes from Jennifer Kron's presentation:

- "Build to Share, BUT securely"
- How do we ensure data contains attributes and security labels/tags, and build access restrictions from this metedata?



SECURITY AUTOMATION + TOOLING FOR HYBRID CLOUDS





 Deliver practical security guidance, baselines, and associated validation mechanisms using Secure Content Automation Protocol (SCAP)

- Current upstream source for NSA, NIST, and Red Hat Configuration Guides
 - DISA JBoss Enterprise Application Platform STIG
 - DISA Red Hat Enterprise Linux 6 & 7 STIGs
 - Department of Justice CJIS Baselines
 - National Security Agency SNAC Guide



OpenSCAP PROJECT CONTRIBUTORS







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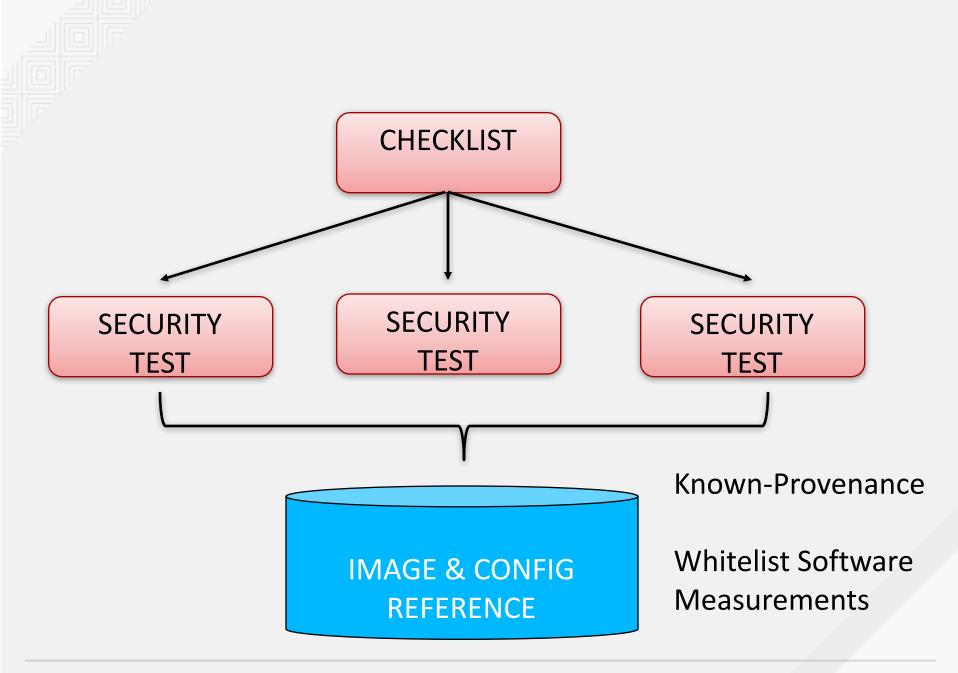




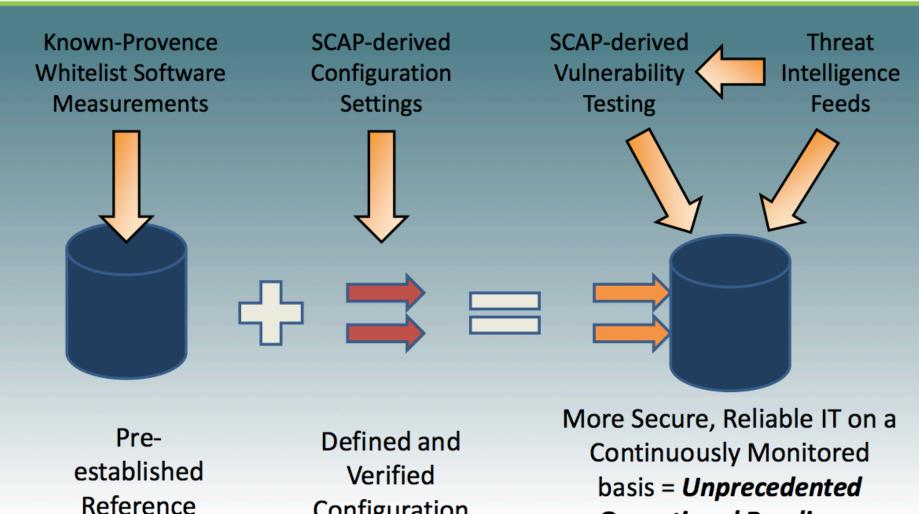


- Maps specific security tests to formalized policies
 - NIST 800-53 rev4
 - DISA Operating System SRG
 - NIST CCE
- Delivering DoD and IC Automated Baselines today!
 - DoD STIG: Joint development with NSA, DISA FSO
 - C2S: Developed for CIA C2S Linux images
 - CS2: Developed with NSA TS for GOVCLOUD systems
 - CJIS: FBI criminal justice systems









Image

Configuration Settings

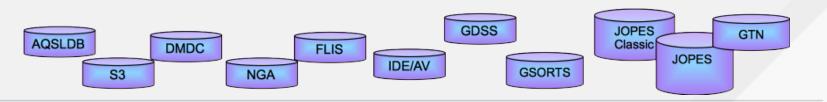
Operational Readiness



STRUCTURED DATA SERVICES ACROSS HYBRID CLOUDS

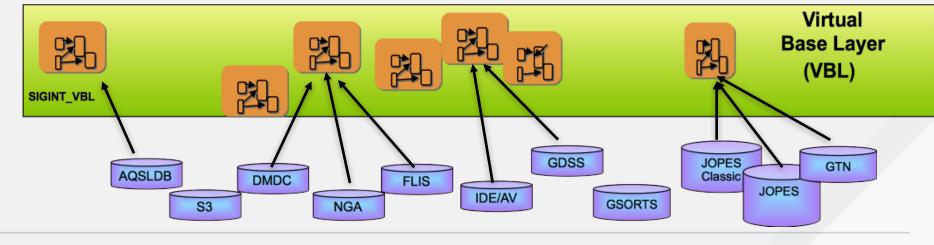






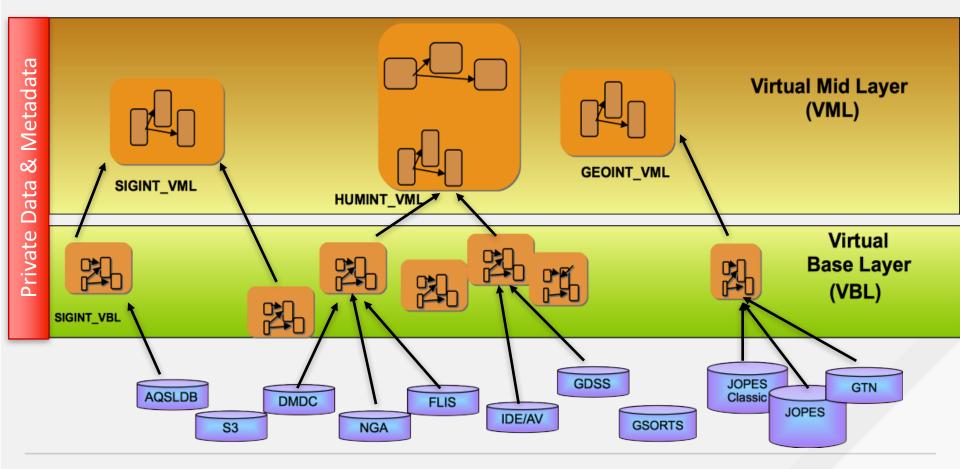




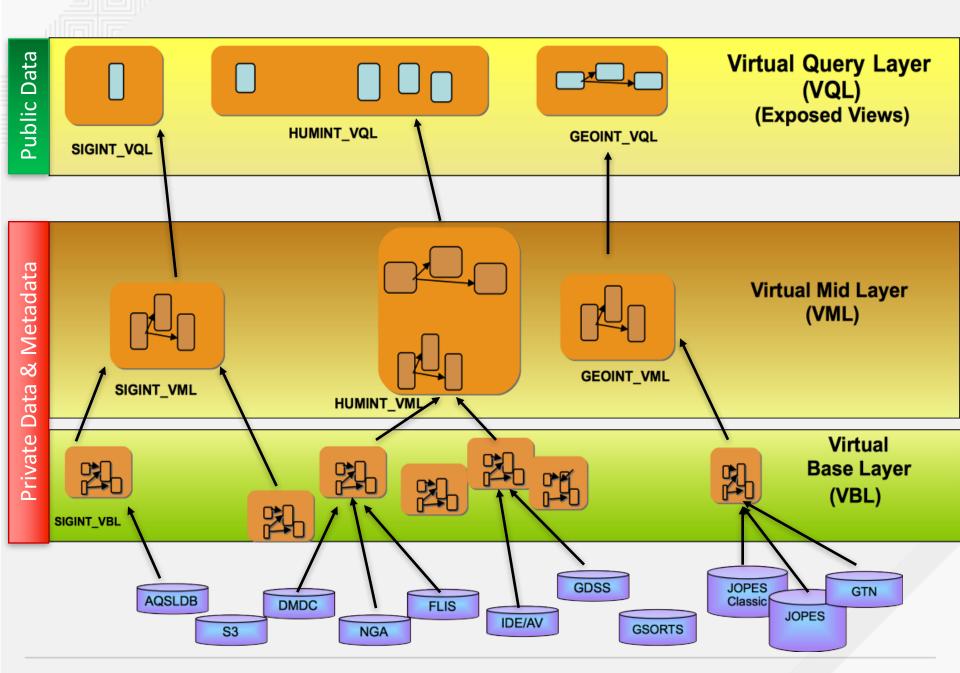












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IC PERSONS OF INTEREST

CHALLENGE

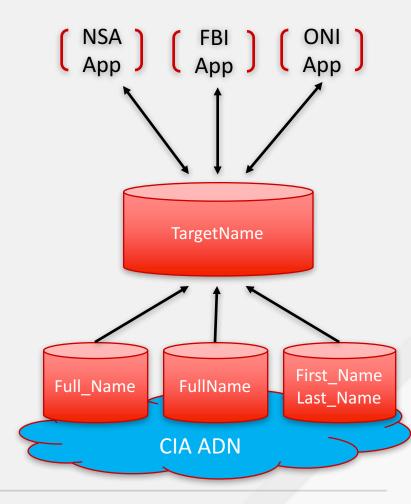
- Need to find Person of Interest across disparate IC systems
- Adherence to IC-wide common data scheme

SOLUTION

- Create abstracted view of enterprise data schema
- Facilitates data ingest/egress by creating standard data fields

BENEFIT

• Simplified data access, decoupled services and apps from the underlying complex data infrastructure





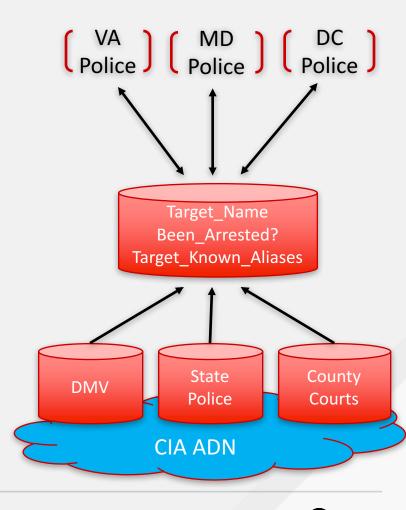
DISA ADNET: ANTI-DRUG NETWORK

CHALLENGE

- Counter-narcotics and counternarcoterrorism
- Statutory detection and monitoring
- Data is heterogeneous & on multiple systems

SOLUTION

- Created abstracted view across multiple State/Local Law enforcement agencies
- Virtual database enables BI tools to get a complete picture of person from any history, warrants, jail, crimes, vehicles, etc
- Federated search layer looking for possible aliases given general details (cars, addresses, license, etc).



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BUILDING YOUR OPEN HYBRID CLOUD





EVERYONE IS A TECHNOLOGY COMPANY TODAY.

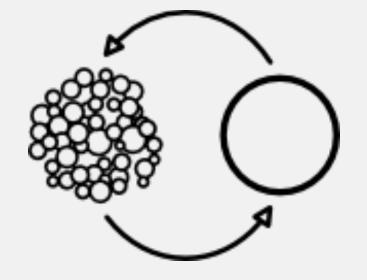




WHEN EVERYONE IS A TECH COMPANY, I.T. CAN BE A SOURCE OF COMPETITIVE ADVANTAGE.



OPEN SOURCE MEANS COMMUNITY MEMBERS CAN SEE, LEARN FROM, IMPROVE, MODIFY, AND SHARE THE SOURCE CODE TO SOLVE CHALLENGES AND MEET NEEDS.









THE OPEN SOURCE ADVANTAGE



Provides the interoperabilility to use a range of solutions from multiple providers. Security developed in collaboration with the industry's experts.





Gives you access to the best technology, and contribute to its success.

Reduces time spent keeping the lights on and increases your time to innovate.



THIS ISN'T JUST A WAY OF DOING BUSINESS. IT'S A MODEL FOR THE FUTURE OF TECHNOLOGY.



RED HAT MAKES OPEN SOURCE READY FOR THE ENTERPRISE



RED HAT DELIVERS THE INNOVATION OF OPEN SOURCE **PROJECTS** AS PREDICTABLE, RELIABLE, AND SECURE **PRODUCTS**.

COMMON CRITERIA – FIPS 140-2 – DoD STIGs – CNSSI 1253





THANK YOU!



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