BUILDING A DAM SECURE FILE SYSTEM WITH IRODS

Paul Evans

principal architect

daystrom technology group

LET'S MEET...



*DIGITAL ASSET MANAGEMENT

WHY DOESN'T BEN SLEEP MUCH?



'DRIVERS' OF THE CHAOS (DATA)



BEN'S 'DATA' CONCERNS....

INVENTORY

PLACEMENT& PERFORMANCE

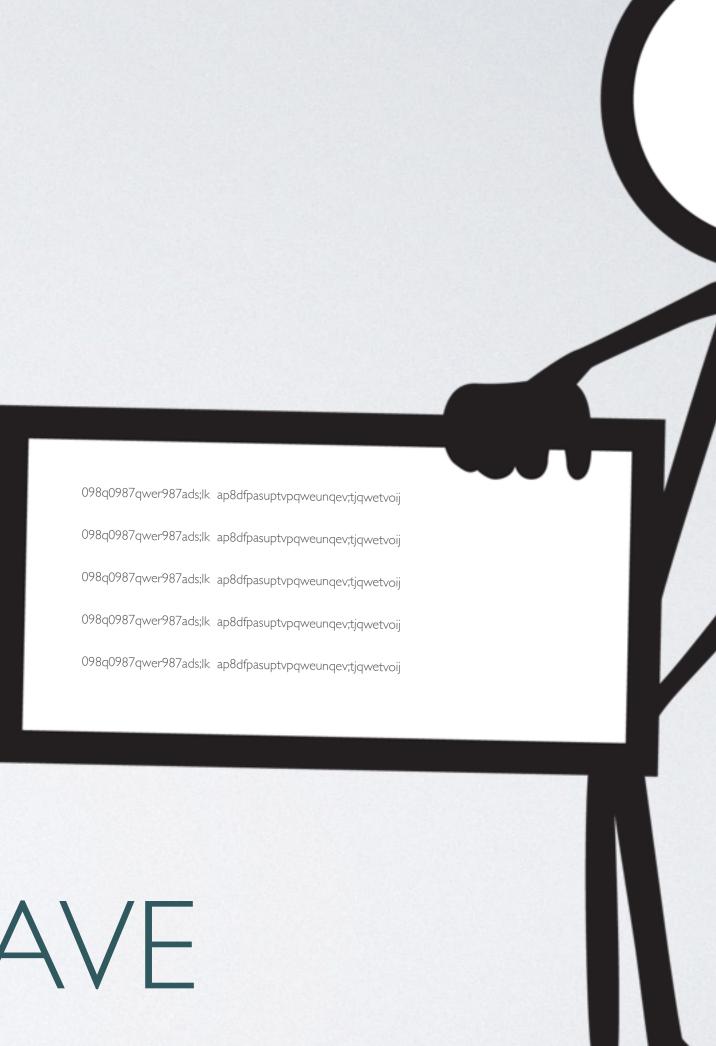


EFFICIENCY

SEGURITY

INVENTORY

- WHAT DO WE HAVE
- WHERE IS IT
- WHO TOUCHED IT
- NHEN SHOULD IT LEAVE



PLACEMENT / PERFORMANCE



EFFICIENCY

COST

TIMETO
ACCESS

INVISIBLE

EASY

WHYTHE SECURITY FOCUS?

"THE HACK
OF THE
CENTURY"



SECURITY



BOUNDARIES

MACHINE ATTACKS

TRUST

IDENTIFYING
'BAD ACTORS'
VIA MULTIFACTOR
AUTHENTICATION









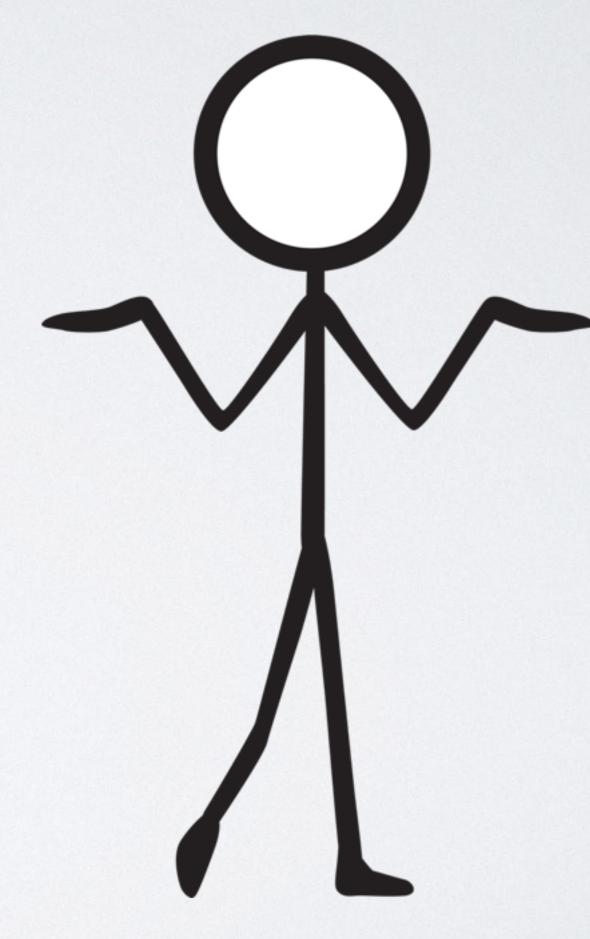


BADACTING

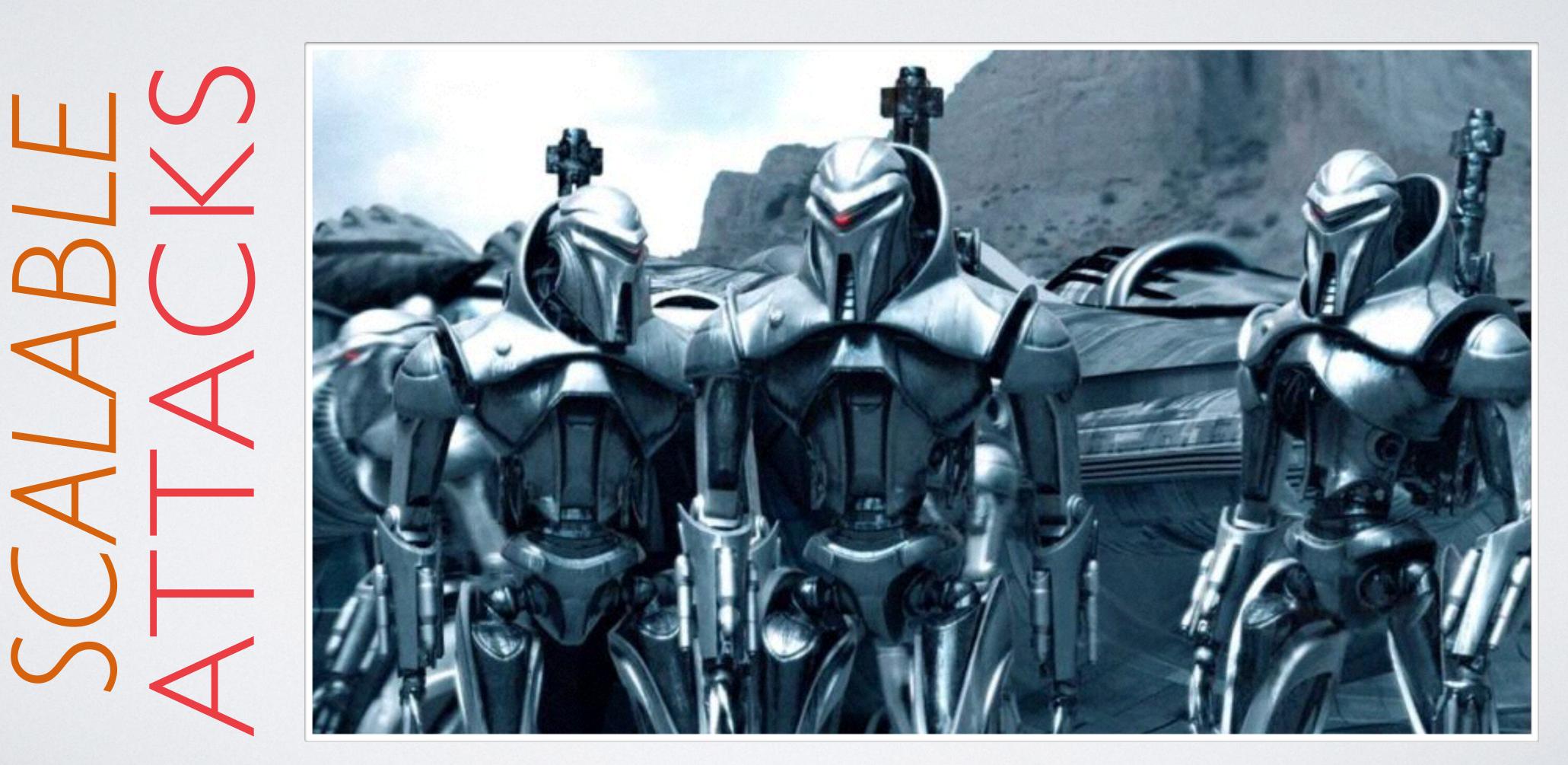
HAS IT ALWAYS BEEN THIS FUNNY?

BOUNDARIES: POUROUS



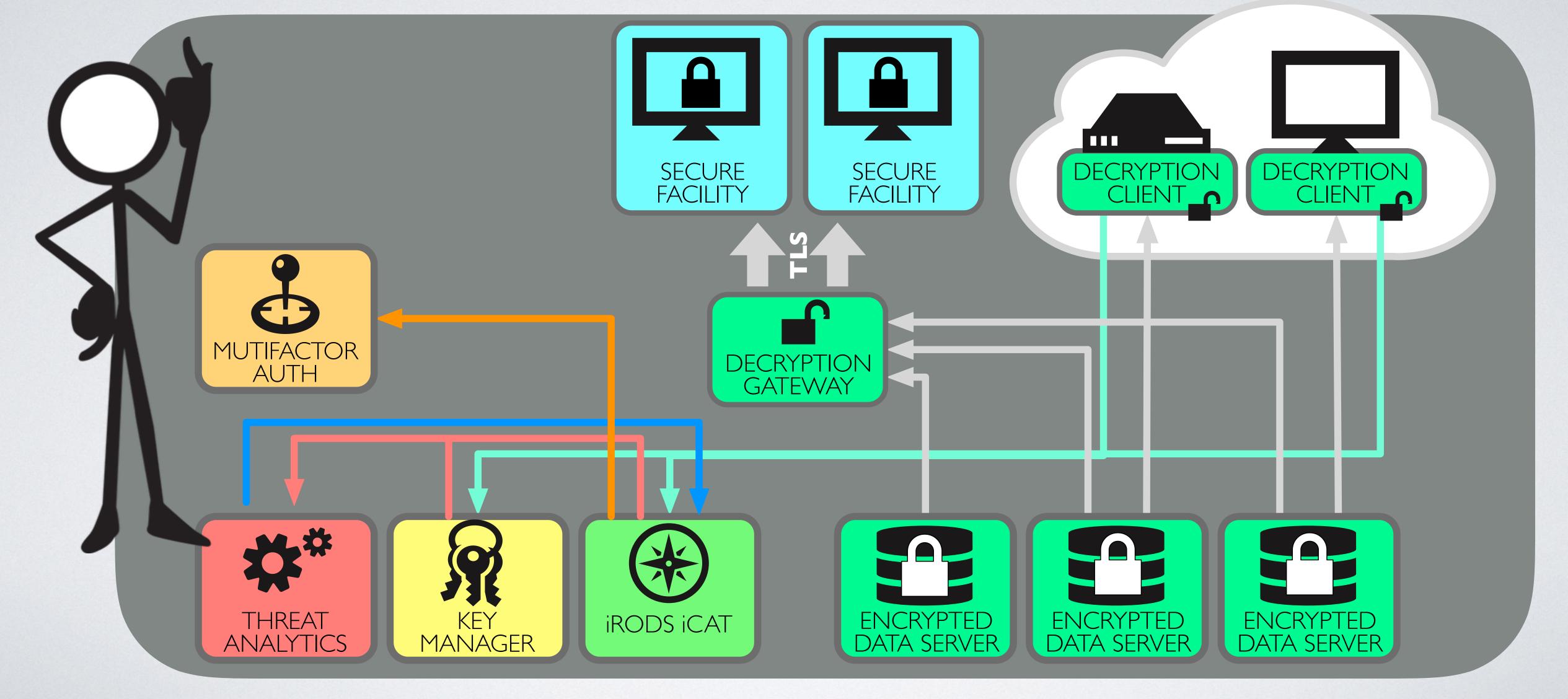


ADVANCED MACHINERY



WHAT SHOULD BEN DO?

DAM SECURE RODS!

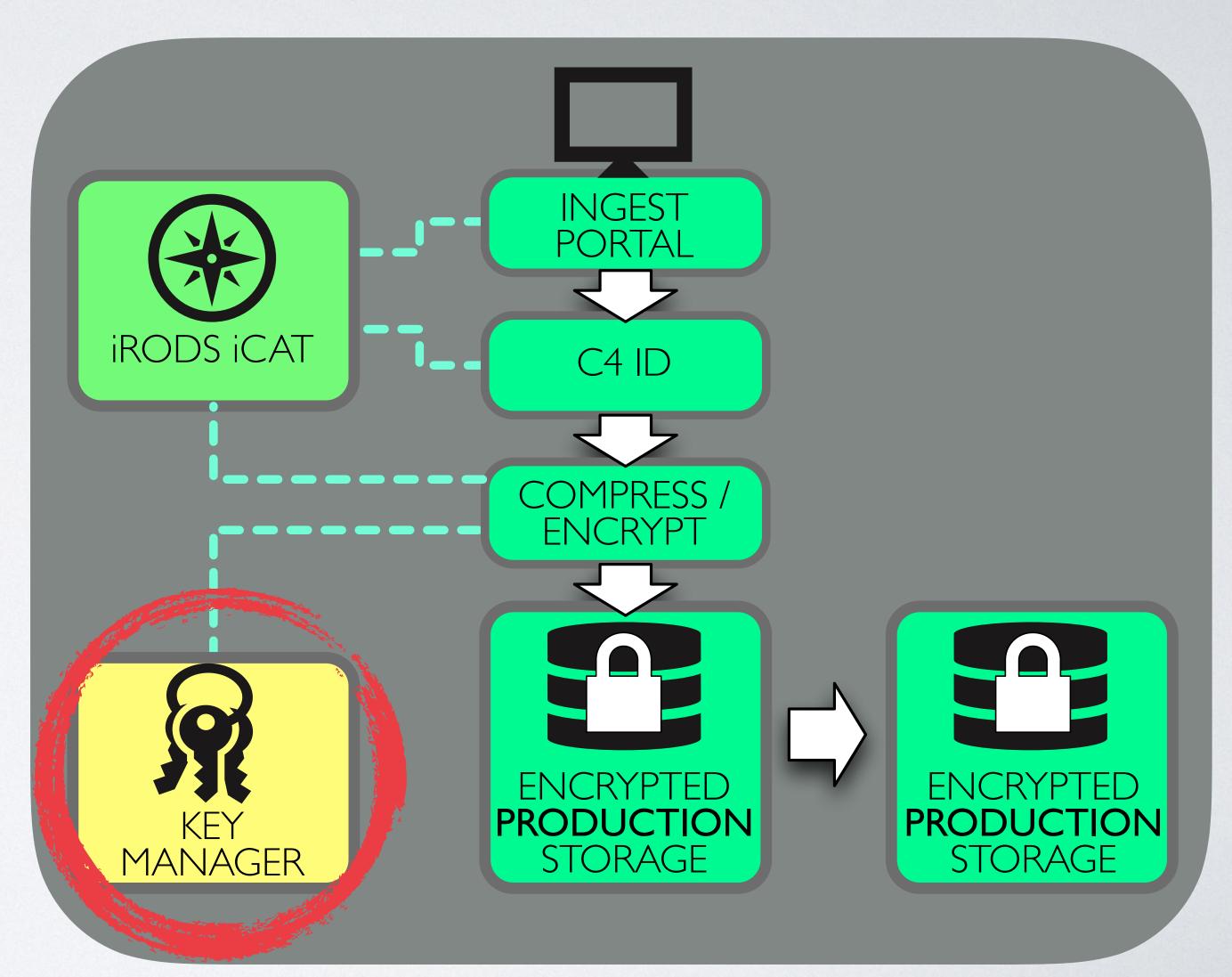


DAM SECURE INVENTORY

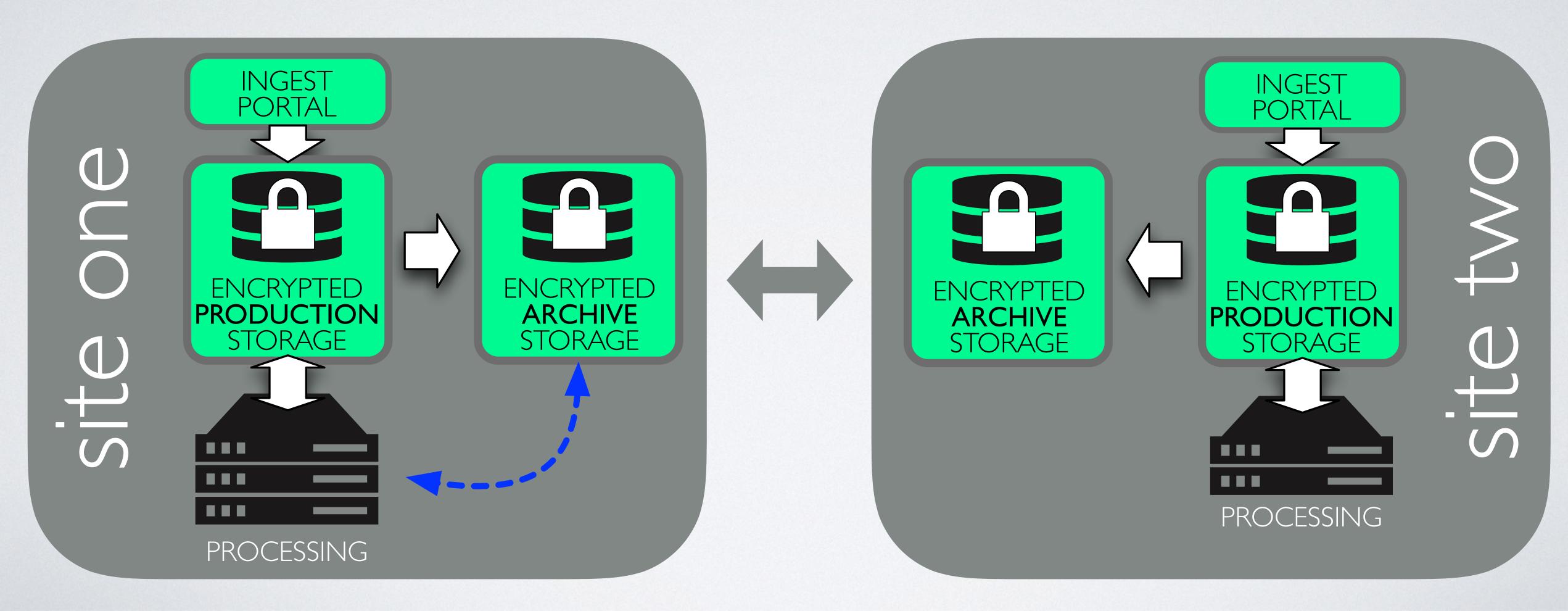
POLICY-BASED INGEST
RELIABLE INVENTORY
(WHAT & WHERE)

CENTRAL METADATA

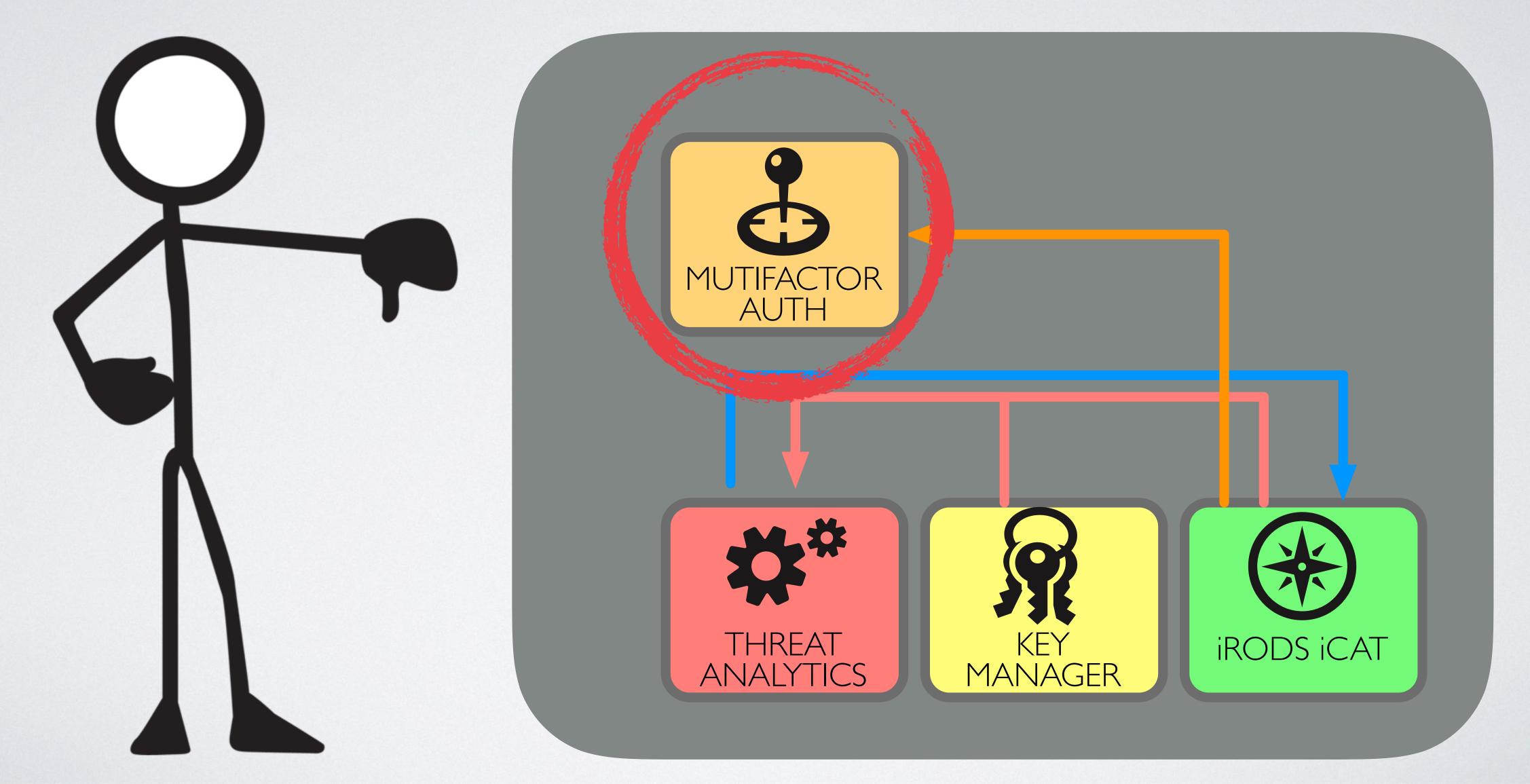
SECURE PROVENANCE
(WHO & WHEN)



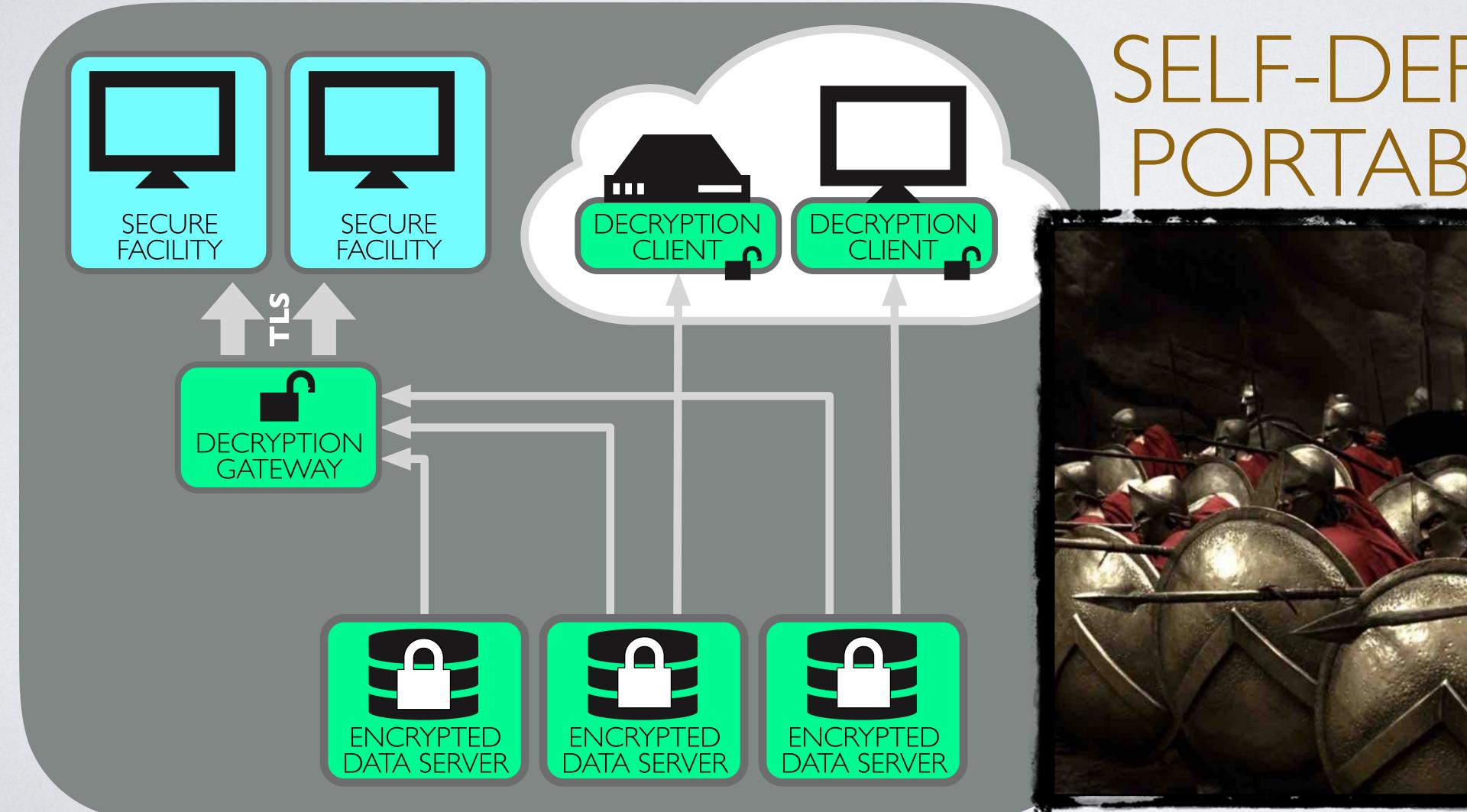
DAM SECURE PLACEMENT & PERFORMANCE



SECURITY: SPOT BAD ACTORS



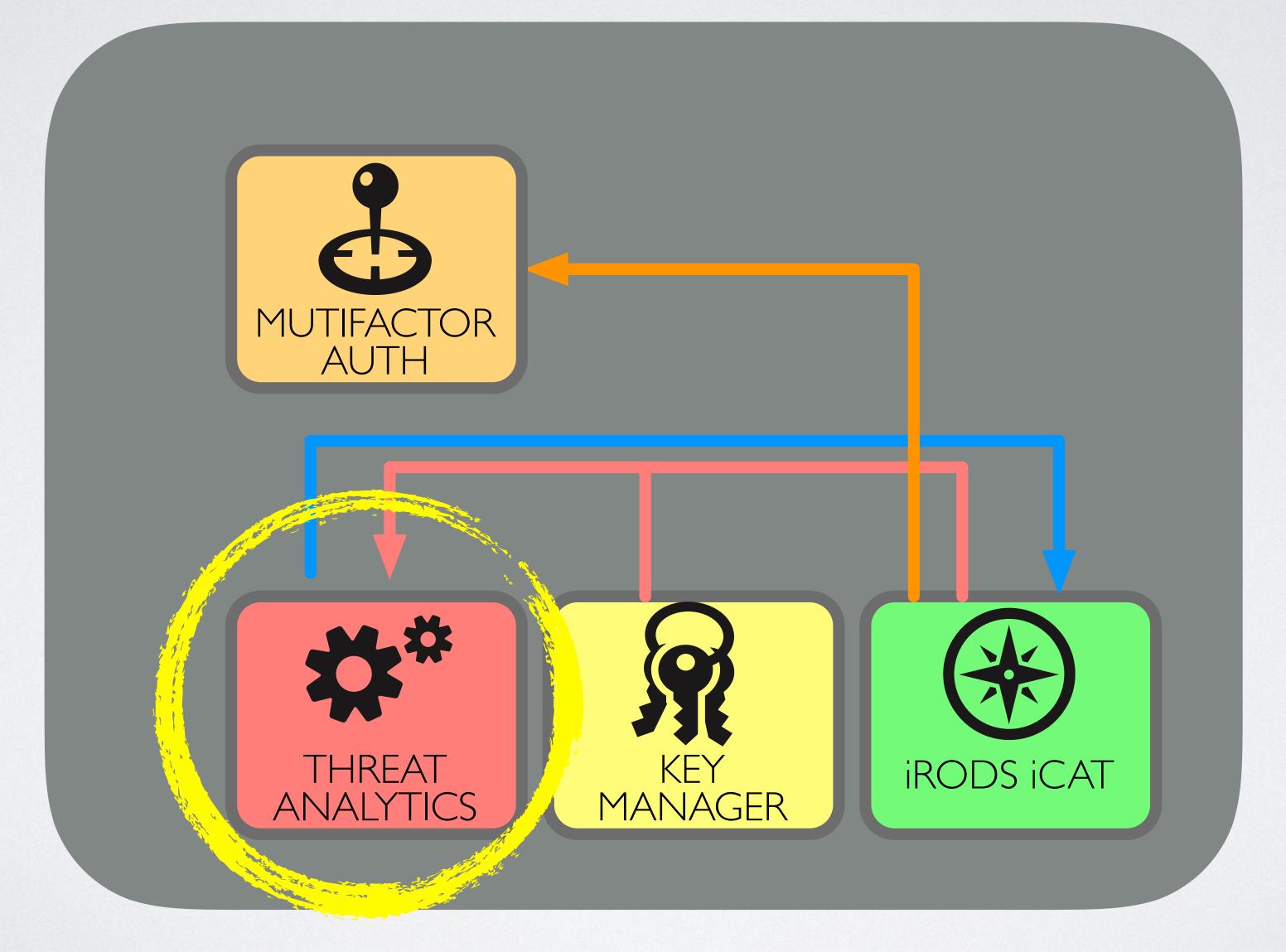
SECURITY: NO BOUNDARIES



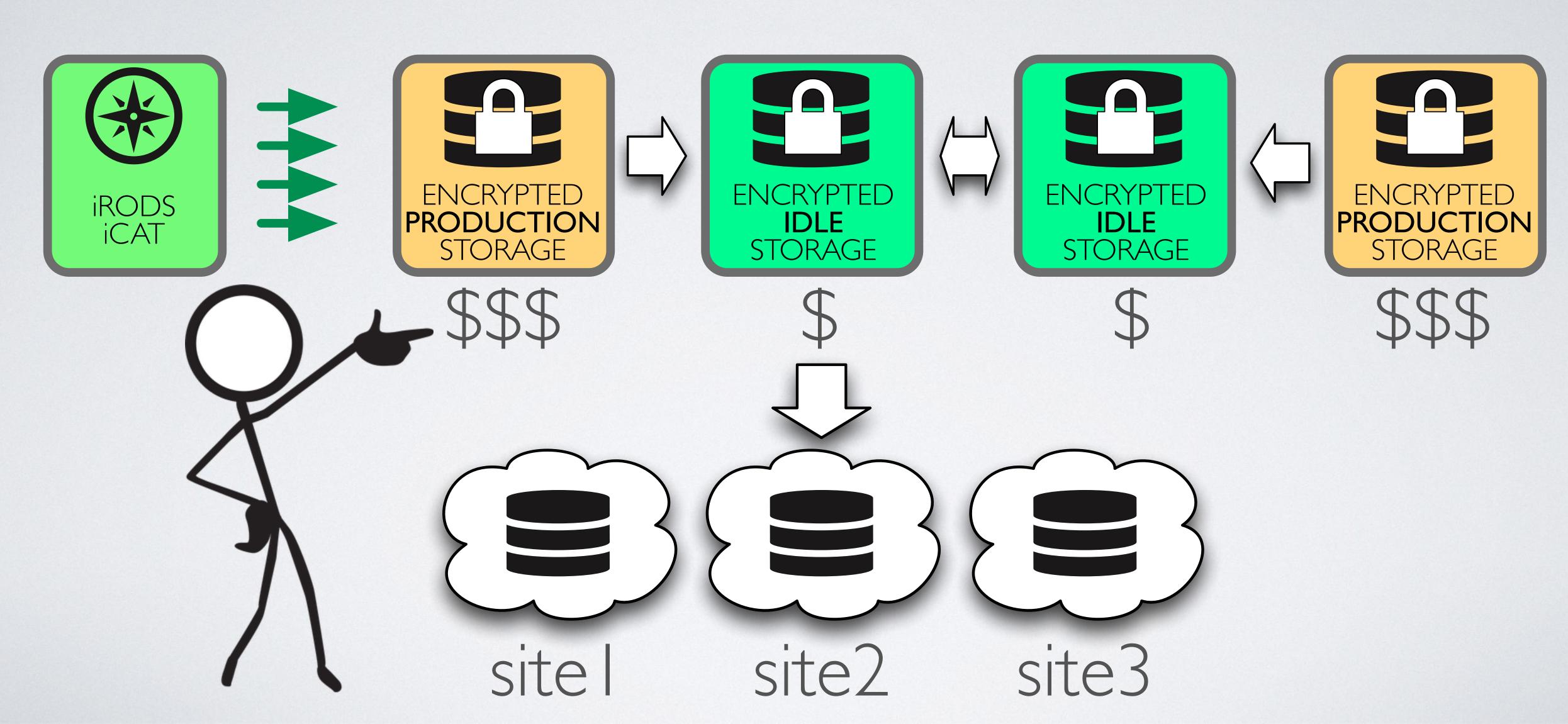
SELF-DEFENDING PORTABLE DATA



SECURITY: VS MACHINES



DAM SECURE EFFICIENCY



BEN HAS NO (DATA) WORRIES!

INVENTORY

PLACEMENT & PERFORMANCE





BEN IS HAPPY THANKS TO:











LINKS

- · iRODS Data Management: pixspan.com/medical_imaging.php
- · Daystrom Integration: daystrom.com/technical-expertise/data-grids.html
- **HGST Storage**: <u>hgst.com/company/resources/hgst-erasure-coding-and-self-protecting-technology</u>
- C4 ID: etcentric.org/wp-content/uploads/2015/09/C4-ID-ETC-Whitepaper.pdf
- · Pixspan Compression: pixspan.com/medical_imaging.php
- FireEye TAP: fireeye.com/products/threat-analytics-platform.html

RODS UGM2016

Paul Evans
principal architect
paul@daystrom.com



