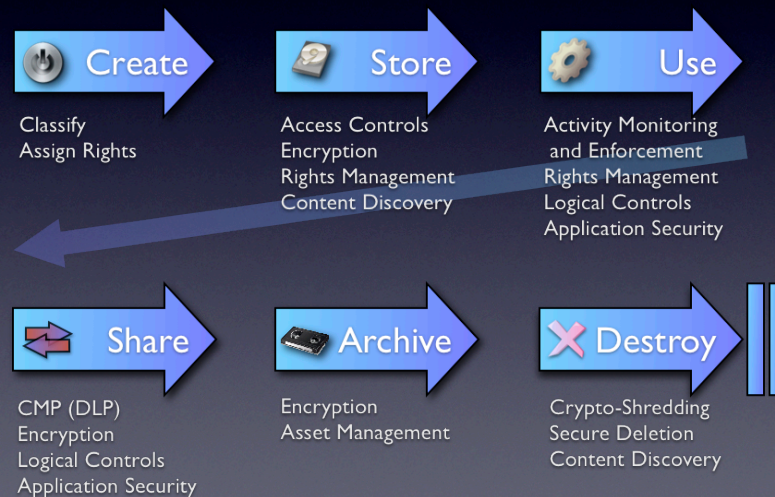


# Data Protection in the Enterprise

Rich Mogull  
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# The Information-Centric Security Lifecycle



# The Triple Threat

Why All The Attention On Encryption?

Bad Guys  
Value Data

Breach  
Notifications

Direct  
Regulations



ENCRYPTION TOOLS WORK!

Securosis.com

# The Three Laws of Data



If Data Moves Physically or  
Virtually



For Separation of Duties



Mandated Encryption

# Where to Encrypt

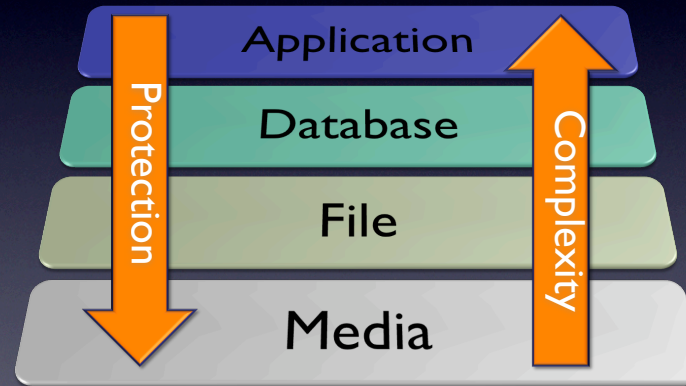
## Separation of Duties

- Database Fields
- Workstation File/Folder
- Server
- NAS
- Applications

## Movement/Media Protection

- Tape
- SAN
- Laptops/FDE
- Email
- Portable Media

# Encryption Layers





# Two Sides Of Data Security

Data Center



Productivity



# Data Security

## Authentication

- Pre-boot must integrate with your identity and access management infrastructure.

## Deployment

- Encrypt images and existing systems. Background encryption. Software deployment.

## Infrastructure Integration

- Support backup infrastructure, system updates, and configuration management.

## Manageability

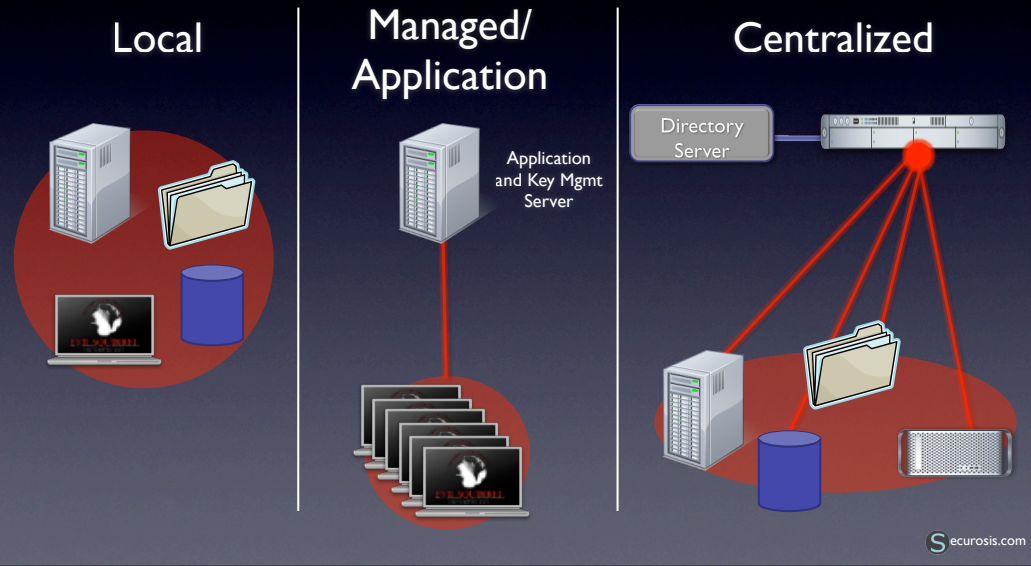
- Integrate with identity management, key management, and systems management.

## Key Management

- Backup, rotation, migration.



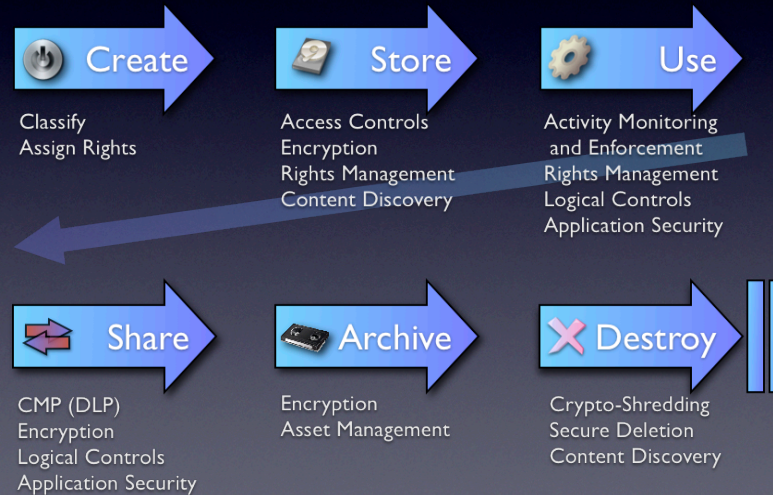
# Key Management Options



# Enterprise Integration

- Cross platform solutions
- “Proprietary” standards
- Cross application communications/integration
  - Messaging, workflow, metadata
- Separation of Duties
- Directory Integration
- Key Backup/Restore/Rotation

# The Information-Centric Security Lifecycle



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