

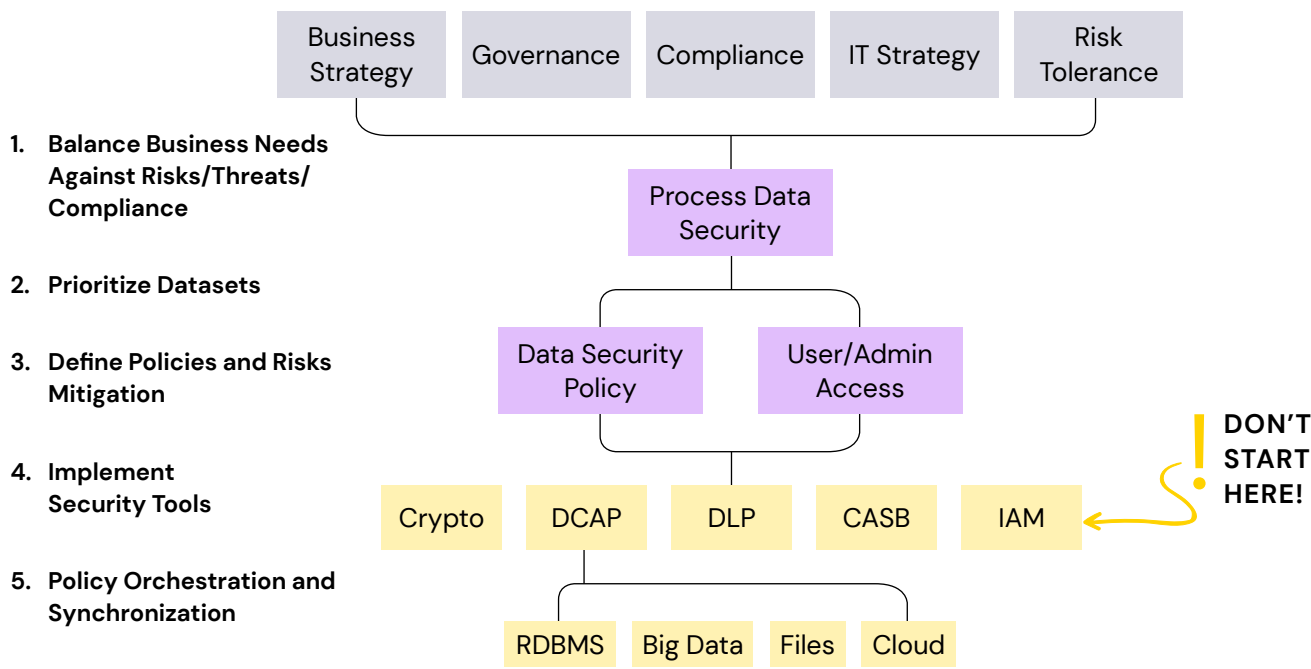
DATA SECURITY CHEAT SHEET

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Your Data Guy

DEVELOP DATA SECURITY GOVERNANCE TO STOP ALL BREACHES



1. Balance Business Needs Against Risks/Threats/Compliance
2. Prioritize Datasets
3. Define Policies and Risks Mitigation
4. Implement Security Tools
5. Policy Orchestration and Synchronization

SOFTWARE PRODUCTS FOR DATA SECURITY

1. **ENCRYPTION AND KEY MANAGEMENT**
Symmetric and Asymmetric Encryption Algorithms.
Key Management Solutions (e.g., AWS Key Management Service, Azure Key Vault)
2. **DATA LOSS PREVENTION (DLP)**
DLP Solutions (e.g., Symantec DLP, McAfee DLP, Forcepoint DLP)
3. **SECURITY MONITORING AND AUDITING**
Security Information and Event Management (SIEM) Tools (e.g., Splunk, IBM QRadar)
4. **DATA MASKING AND ANONYMIZATION**
Data Masking Solutions (e.g., Delphix, Informatica Dynamic Data Masking)

DATA SECURITY ASSESSMENT

- ✓ Evaluate existing data security measures and vulnerabilities.
- ✓ Identify potential risks and threats to data security.
- ✓ Assess regulatory and compliance requirements.

DATA PROTECTION CORE PRINCIPLES



TEAMS NEEDED TO SUPPORT DATA SECURITY

DATA SECURITY TEAM

- Chief Information Security Officer (CISO) or Security Manager
- Security Analysts
- Security Engineers
- Incident Response Team

DATA GOVERNANCE TEAM

- Data Governance Manager
- Data Stewards
- Compliance Officers

IT OPERATIONS TEAM

- System Administrators
- Network Administrators
- Database Administrators

DATA SECURITY

Number of security incidents/breaches.
Mean Time to Detect (MTTD) security incidents.
Mean Time to Respond (MTTR) to security incidents.
Percentage of data encryption coverage

DATA COMPLIANCE

Compliance with data security regulations (e.g., GDPR, HIPAA).
Number of compliance violations or incidents

EMPLOYEE AWARENESS

Completion rate of data security training.
Number of reported security incidents by employees

INCIDENT RESPONSE

Time taken to identify and contain security incidents.
Time taken to recover from security incidents.
Effectiveness of incident response processes (post-incident analysis)

KPIs FOR PERFORMANCE EVALUATION



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