



# Cybersecurity and Data Protection in Archives

Safeguarding Historical and Digital Records by Saša Đukić

# Introduction

Archives preserve historical, legal,  
and cultural records

Digital transformation increases  
vulnerability to cyber threats

Importance of integrating  
cybersecurity and data protection



# Key Cybersecurity Threats to Archives



Unauthorized Access  
and Ransomware  
Attacks



Insider Threats  
Overlap with Physical  
Security Threats



Data Corruption and  
Manipulation

# Role of Cybersecurity in Archives



Prevent unauthorized access or tampering

Protect sensitive  
digital repositories

Secure classified  
documents and  
personal data

# Data Protection Strategies

Multi-Factor Authentication (MFA) & Role-Based Access Control (RBAC) and Data Encryption (AES-256, TLS 1.3)



01

Regular Backups (Cloud + Offline)

02

Checksum Verification and File Integrity Monitoring

03

Legal Compliance (e.g., GDPR)

# GDPR in the European Union

Protects personal data of EU citizens

Principles: Lawfulness, Data Minimization, Accuracy

Rights: Access, Rectification, Erasure (with archival exceptions)

Accountability and Cross-Border Data Transfer Regulations





## Emerging Technologies for Archives

Blockchain: Immutable data storage

01

AI: Threat detection and anomaly monitoring

02

Cloud: Redundant and secure data storage

03

Zero Trust Architecture (ZTA): Continuous identity verification

# Best Practices

Use international frameworks (NIST, ISO/IEC 27001)

Regular security audits

Employee cybersecurity training

Implement Zero Trust security models





# Conclusion

Cybersecurity and data protection  
are essential for digital archives

01

Legal and technical  
measures must work  
together

02

Secure archives = trusted,  
preserved history for  
future generations

# Conclusion

As archives transition to digital formats, the intersection of cybersecurity and data protection becomes vital. Institutions must implement robust security frameworks, adhere to regulatory guidelines, and leverage emerging technologies to safeguard archival data from cyber threats.



**Thank you for your attention!**