



MAINFRAME SECURITY

BEST PRACTICE CHECKLIST

YOUR GUIDE FOR CYBER
SECURITY AWARENESS
MONTH

1. Encryption Everywhere

- ✓ Encrypt data at rest across all mainframe datasets
- ✓ Implement encryption for data in transit between systems
- ✓ Ensure compliance with PCI DSS, HIPAA, GDPR, and SOX requirements
- ✓ Regularly audit encryption management practices
- ✓ Validate encryption strength meets current industry standards

See how SDS E-Business Server simplifies mainframe encryption

2. Identity & Access Controls

- ✓ Implement multi-factor authentication (MFA) for all privileged users
- ✓ Deploy role-based access control (RBAC) with least privilege principles
- ✓ Perform quarterly access reviews and user permission audits
- ✓ Monitor and log all privileged account activities
- ✓ Establish strong password policies and regular rotation schedules

Limit risk with robust Identity and Access Management practices

3. Continuous Monitoring & Auditing

- ✓ Integrate mainframes into enterprise SIEM tools
- ✓ Configure real-time anomaly detection and alerting
- ✓ Establish baseline behaviors for normal mainframe operations
- ✓ Implement automated threat detection workflows
- ✓ Maintain comprehensive audit trails for compliance reporting

VitalSigns SIEM Agent (VSA) delivers enterprise visibility

4. Patching & Hardening

- ✓ Apply vendor security patches within established timeframes
- ✓ Disable unused services, ports, and system components
- ✓ Regularly scan for vulnerabilities and misconfigurations
- ✓ Implement network segmentation and firewall rules
- ✓ Maintain current inventory of all mainframe components

Proactive monitoring and updating reduces vulnerabilities

5. Security Awareness Culture

- ✓ Conduct regular security awareness training for all staff
- ✓ Train teams specifically against phishing and social engineering
- ✓ Establish insider threat detection and prevention programs
- ✓ Build security accountability across the entire enterprise
- ✓ Create incident response procedures and conduct regular drills

Non-compliance can cost your organization millions
in penalties and reputation loss. Stay audit-ready with SDS encryption and monitoring solutions.

PCI DSS • HIPAA • GDPR • SOX

Ready to strengthen your defenses?

E-Business Server

Comprehensive mainframe encryption

VitalSigns SIEM Agent (VSA)

Real-time monitoring and visibility