

# Podcast

## CyberSecure Podcast Series

### Higher Education Focus

#### ▼ Podcast #1: Securing University Research Data

Script outline for a 30-minute discussion on protecting sensitive research data at higher education institutions. Script outline for a 30-minute discussion on protecting sensitive research data at higher education institutions.

- Introduction to modern threats targeting academic research (5 min) Introduction to modern threats targeting academic research (5 min)
- Interview with university CISO about data classification systems (10 min) Interview with university CISO about data classification systems (10 min)
- AI-powered threat detection solutions for research environments (10 min) AI-powered threat detection solutions for research environments (10 min)
- Actionable security protocols for research teams (5 min) Actionable security protocols for research teams (5 min)

#### ▼ Podcast #2: AI Ethics in Higher Education

Script for panel discussion examining ethical considerations of AI implementation on campus. Script for panel discussion examining ethical considerations of AI implementation on campus.

- Current AI applications in university settings (7 min) Current AI applications in university settings (7 min)
- Privacy concerns with student data and AI analytics (8 min) Privacy concerns with student data and AI analytics (8 min)
- Establishing ethical frameworks for AI deployment (10 min) Establishing ethical frameworks for AI deployment (10 min)

- Future of AI governance in academia (5 min)Future of AI governance in academia (5 min)

## K-12 Education Focus

### ▼ Podcast #3: Cybersecurity Fundamentals for K-12 IT Administrators

Script for educational episode aimed at school district IT teams.Script for educational episode aimed at school district IT teams.

- Unique cybersecurity challenges in K-12 environments (6 min)Unique cybersecurity challenges in K-12 environments (6 min)
- Securing remote learning infrastructure (8 min)Securing remote learning infrastructure (8 min)
- Budget-friendly security solutions for resource-constrained districts (10 min)Budget-friendly security solutions for resource-constrained districts (10 min)
- Creating security awareness programs for staff and students (6 min)Creating security awareness programs for staff and students (6 min)

### ▼ Podcast #4: Protecting Student Data in the Age of EdTech

Script examining the intersection of educational technology, student privacy, and security.Script examining the intersection of educational technology, student privacy, and security.

- Current EdTech landscape and associated risks (7 min)Current EdTech landscape and associated risks (7 min)
- COPPA, FERPA and other regulatory considerations (8 min)COPPA, FERPA and other regulatory considerations (8 min)
- Vetting and securing third-party educational applications (9 min)Vetting and securing third-party educational applications (9 min)
- Case study: Responding to a K-12 data breach (6 min)Case study: Responding to a K-12 data breach (6 min)

## Federal Government Focus

#### ▼ Podcast #5: Zero Trust Architecture in Federal Agencies

Script detailing implementation strategies for zero trust security models. Script detailing implementation strategies for zero trust security models.

- Evolution from perimeter defense to zero trust (5 min) Evolution from perimeter defense to zero trust (5 min)
- Interview with federal CISO on implementation challenges (12 min) Interview with federal CISO on implementation challenges (12 min)
- AI-enhanced authentication and continuous verification (8 min) AI-enhanced authentication and continuous verification (8 min)
- Compliance with federal zero trust mandates (5 min) Compliance with federal zero trust mandates (5 min)

#### ▼ Podcast #6: AI-Powered Threat Intelligence for Federal Security Operations

Script exploring how AI transforms federal cybersecurity operations. Script exploring how AI transforms federal cybersecurity operations.

- Current threat landscape facing federal agencies (6 min) Current threat landscape facing federal agencies (6 min)
- Machine learning applications in threat detection and response (10 min) Machine learning applications in threat detection and response (10 min)
- Challenges in implementing AI in classified environments (8 min) Challenges in implementing AI in classified environments (8 min)
- Future directions for AI in federal cybersecurity (6 min) Future directions for AI in federal cybersecurity (6 min)

## State Government Focus

#### ▼ Podcast #7: Ransomware Resilience for State Agencies

Script providing practical guidance on ransomware prevention and recovery. Script providing practical guidance on ransomware prevention and recovery.

- Recent ransomware trends targeting state governments (7 min)Recent ransomware trends targeting state governments (7 min)
- Essential preventative measures and security controls (9 min)Essential preventative measures and security controls (9 min)
- Developing effective incident response plans (8 min)Developing effective incident response plans (8 min)
- Coordination between state and federal resources during attacks (6 min)Coordination between state and federal resources during attacks (6 min)

#### ▼ Podcast #8: Election Security: Protecting Democratic Infrastructure

Script examining cybersecurity measures for election systems.Script examining cybersecurity measures for election systems.

- Current threat landscape for election systems (7 min)Current threat landscape for election systems (7 min)
- Technical and procedural safeguards for voting infrastructure (10 min)Technical and procedural safeguards for voting infrastructure (10 min)
- Role of AI in detecting election interference attempts (8 min)Role of AI in detecting election interference attempts (8 min)
- Balancing security with transparency in electoral processes (5 min)Balancing security with transparency in electoral processes (5 min)

## Municipal Government Focus

#### ▼ Podcast #9: Cybersecurity on a Budget: Solutions for Small Municipalities

Script addressing security challenges faced by resource-limited local governments.Script addressing security challenges faced by resource-limited local governments.

- Common vulnerabilities in municipal IT systems (6 min)Common vulnerabilities in municipal IT systems (6 min)
- Cost-effective security measures and prioritization strategies (10 min)Cost-effective security measures and prioritization strategies (10 min)

- Leveraging shared services and state resources (7 min)Leveraging shared services and state resources (7 min)
- Building security awareness among municipal employees (7 min)Building security awareness among municipal employees (7 min)

#### ▼ Podcast #10: Smart Cities: Securing Critical Infrastructure

Script exploring security implications of smart city technologies.Script exploring security implications of smart city technologies.

- Cybersecurity risks in connected urban infrastructure (8 min)Cybersecurity risks in connected urban infrastructure (8 min)
- Securing IoT devices in public spaces (7 min)Securing IoT devices in public spaces (7 min)
- AI monitoring systems for critical infrastructure protection (9 min)AI monitoring systems for critical infrastructure protection (9 min)
- Privacy and security balance in smart city implementations (6 min)Privacy and security balance in smart city implementations (6 min)

Each podcast will feature industry experts, practical advice, and actionable strategies for implementing robust cybersecurity practices across different sectors. Episodes will be 30-45 minutes in length and released bi-weekly.

Here are 5 new podcast episodes focused on cybersecurity and AI, including both basic and advanced topics with some debunking of common misconceptions:

#### **Podcast #11: AI Security Myths Debunked**

- Introduction to common AI security misconceptions (5 min)
- Debunking the "AI will hack everything" narrative (8 min)
- Reality check: Current limitations of AI in cybersecurity (10 min)
- Expert panel: Separating AI security facts from fiction (7 min)

#### **Podcast #12: Beginner's Guide to Cyber Hygiene**

- Essential cybersecurity practices for non-technical users (7 min)
- Password management fundamentals and authentication options (8 min)
- Recognizing phishing and social engineering attempts (9 min)

- Simple steps to secure your digital life (6 min)

#### **Podcast #13: Advanced AI Threat Detection Techniques**

- Evolution of AI-based threat detection systems (6 min)
- Deep dive: Machine learning models for anomaly detection (10 min)
- Case study: How AI prevented a major ransomware attack (8 min)
- Future innovations in AI-powered security operations (6 min)

#### **Podcast #14: The Human Factor in Cybersecurity**

- Why technical solutions alone aren't enough (5 min)
- Building effective security awareness programs (8 min)
- Psychology of social engineering and how attackers exploit human nature (9 min)
- Creating a security-conscious organizational culture (8 min)

#### **Podcast #15: Quantum Computing and the Future of Encryption**

- Quantum computing fundamentals for security professionals (7 min)
- Potential impacts on current encryption standards (9 min)
- Post-quantum cryptography preparations (8 min)
- Timeline reality check: When to actually worry about quantum threats (6 min)

These new episodes would fit well with your existing bi-weekly release schedule and complement your current podcast series that covers various sectors like education, government, and municipal cybersecurity.