

CYBER SECURITY ASSIGNMENT QUESTION

DAY 76

1. Explore the role of real-time cryptography in securing voice over IP (VoIP) communication systems. Discuss the cryptographic techniques and protocols used to protect voice data, authenticate users, and ensure confidentiality and integrity in real-time VoIP applications.

2. Discuss the application of real-time cryptography in securing video conferencing platforms. Explain how cryptographic techniques and protocols are employed to protect video streams, authenticate participants, and maintain privacy and security in real-time video conferencing applications.

3. Investigate the role of real-time cryptography in securing smart home devices and home automation systems. Analyze the cryptographic techniques and protocols used to protect data communication, device authentication, and user privacy in real-time IoT deployments for smart homes.

4. Explore the challenges and solutions in implementing real-time cryptography for resource-constrained IoT devices. Discuss lightweight cryptographic algorithms, protocol optimizations, and energy-efficient cryptographic techniques used to address the performance and resource constraints of IoT deployments.

5. Discuss the role of real-time cryptography in securing real-time streaming media services. Explain how cryptographic techniques and protocols are employed to protect media

content, ensure copyright protection, and enforce access controls in real-time streaming platforms.