API Cryptography Vulnerability Report

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Findings

Checking HTTPS Usage...
âœ” API is using HTTPS. [OWASP API2:2019 - Broken User Authentication]
Analyzing SSL/TLS Version and Cipher...
âœ” Secure SSL/TLS Version: TLSv1.3
âœ” Cipher Used: TLS_AES_256_GCM_SHA384 (TLSv1.3 bits)
âš SSL/TLS Check Failed: '<' not supported between instances of 'str' and 'int'
Checking Important Security Headers...
âœ” Strict-Transport-Security is present (Protects against protocol downgrade attacks [OWASP A6])
âŒ Content-Security-Policy is missing! (Prevents XSS attacks [OWASP A7])
âœ” X-Content-Type-Options is present (Prevents MIME-sniffing [OWASP A5])
âœ” X-Frame-Options is present (Protects against clickjacking [OWASP A5])
âœ” Referrer-Policy is present (Controls information sent in Referer header [OWASP A6])
Checking Common Cryptographic Weaknesses (Theoretical)...
âš Usage of MD5 for hashing - Collision attacks [OWASP A3:2017]
âš Usage of SHA-1 instead of SHA-256 - Weak hash strength [OWASP A3:2017]
âš RSA keys < 2048 bits - Easier to break with modern computing [OWASP A3:2017]
âš AES keys < 128 bits - Insufficient symmetric key strength [OWASP A3:2017]

Mapped to OWASP API Top 10 and OWASP Web Top 10 vulnerabilities where applicable.