



## API Security Quick - Audit Checklist



API SECURITY AUDIT CHECKLIST				
#	API Security area		Findings	Pass / Fail
	API Key Management:	Security Checks Are API keys managed securely, and is their distribution restricted to	. munige	. uss / f all
		authorized users or applications?		
2	OAuth 2.0	Are API keys adequately protected from unauthorized access or exposure?		
2	Implementation:	Are API keys managed securely, and is their distribution restricted to authorized users or applications?		
		authorized users of applications:		
		Are API keys adequately protected from unauthorized access or exposure?		
		Is OAuth 2.0 correctly implemented to provide secure user authentication		
		Are access tokens and refresh tokens properly issued, validated, and revoked when necessary?		
3	Rate Limiting	Is there a rate-limiting mechanism in place to prevent abuse or excessive use		
	Controls	of the API?		
		Are rate limits enforced and configured appropriately to minimize the risk of		
4	Input Validation	service disruptions?		
ĺ	Procedures	Are input validation and data sanitization mechanisms effectively preventing		
		injection attacks, such as SQL injection and cross-site scripting (XSS)?		
5	CORS Configuration	Is Cross-Origin Resource Sharing (CORS) properly configured to restrict		
		cross-origin requests and protect against unauthorized access?		
		Are security headers like Content Security Policy (CSP), Strict-Transport-		
		Security (HSTS), and X-Content-Type-Options in place to enhance security?		
6	Error Handling	Are error messages designed to avoid revealing sensitive information and		
	Practices	provide generic responses?  Are errors properly logged, and is there a process for monitoring and incident		
		response when security incidents occur?		
7	Audit Logging	Are comprehensive audit logs maintained to record API requests, including		
		source, timestamp, and actions performed?		
		Is there an effective monitoring and alerting system in place to detect and respond to suspicious activities or anomalies?		
8	Versioning Strategy	Is versioning effectively implemented to ensure backward compatibility while		
		introducing new features and changes to the API?		
		Is backward compatibility maintained to avoid breaking changes in existing		
9	File Upload Security	API versions?  If the API allows file uploads, is there a mechanism to restrict uploads to safe		
		file types and scan for potential malware?		
		Are uploaded files stored securely and not executed as scripts?		
10	Data Encryption	Is data transmitted over the API encrypted using secure protocols like HTTPS (TLS/SSL)?		
		Is sensitive data, including user credentials, stored in an encrypted form?		
11	API Documentation	Is there comprehensive and up-to-date documentation available to guide		
		developers in using the API securely?		
		Do developers receive proper training and education on security best practices when interacting with the API?		
12	Third-Party API	When integrating with third-party APIs, is there a process for assessing their		
	Security	security practices and ensuring data protection and validation?		
13	DoS Protection Mechanisms	Are there measures in place to mitigate the risk of DoS attacks, such as rate		
14	API Key Management	limiting, traffic analysis, and web application firewalls (WAFs)?  Are API keys securely managed and rotated regularly to minimize the risk of		
	Procedures	unauthorized access in the event of key compromise?		
15	Security Assessment	Is there a process for conducting regular security assessments and		
	Procedures	penetration testing on the API using tools like OWASP ZAP, Postman, or		
		Burp Suite?  Are identified vulnerabilities addressed promptly and documented for audit		
		purposes?		
16	Compliance Checks			
		Is the organization's API security practices configured to meet legal and regulatory compliance requirements relevant to the industry and jurisdiction?		
17	Feedback and	Is there a feedback loop for collecting input from developers, security		
	Improvement Process	professionals, and auditors to drive continuous improvement of API security		
		practices?		

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