

MITIGATIONS

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Application Developer Guidance

This mitigation describes any guidance or training given to developers of applications to avoid introducing security weaknesses that an adversary may be able to take advantage of.

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Techniques Addressed by Mitigation

ATT&CK® Navigator Layers

Domain	ID	Name	Use
Enterprise	T1564	.009 Hide Artifacts: Resource Forking	Configure applications to use the application bundle structure which leverages the <code>/Resources</code> folder location. ^[1]
Enterprise	T1574	Hijack Execution Flow	When possible, include hash values in manifest files to help prevent side-loading of malicious libraries. ^[2]
		.002 DLL Side-Loading	When possible, include hash values in manifest files to help prevent side-loading of malicious libraries. ^[2]
Enterprise	T1559	Inter-Process Communication	Enable the Hardened Runtime capability when developing applications. Do not include the <code>com.apple.security.get-task-allow</code> entitlement with the value set to any variation of true.
		.003 XPC Services	Enable the Hardened Runtime capability when developing applications. Do not include the <code>com.apple.security.get-task-allow</code> entitlement with the value set to any variation of true.
Enterprise	T1647	Plist File Modification	Ensure applications are using Apple's developer guidance which enables hardened runtime. ^[3]
Enterprise	T1078	Valid Accounts	Ensure that applications do not store sensitive data or credentials insecurely. (e.g. plaintext credentials in code, published credentials in repositories, or credentials in public cloud storage).
Mobile	T1626	Abuse Elevation Control Mechanism	Applications very rarely require administrator permission. Developers should be cautioned against using this higher degree of access to avoid being flagged as a potentially malicious application.
Mobile	T1517	Access Notifications	Application developers could be encouraged to avoid placing sensitive data in notification text.
Mobile	T1513	Screen Capture	Application developers can apply the <code>FLAG_SECURE</code> property to sensitive screens within their apps to make it more difficult for the screen contents to be captured. ^[4]
Mobile	T1635	Steal Application Access Token	Developers should use Android App Links ^[5] and iOS Universal Links ^[6] to provide a secure binding between URIs and applications, preventing malicious applications from intercepting redirections. Additionally, for OAuth use cases, PKCE ^[7] should be used to prevent use of stolen authorization codes.
		.001 URI Hijacking	Developers should use Android App Links ^[5] and iOS Universal Links ^[6] to provide a secure binding between URIs and applications, preventing malicious applications from intercepting redirections. Additionally, for OAuth use cases, PKCE ^[7] should be used to prevent use of stolen authorization codes.
Mobile	T1474	Supply Chain Compromise	Application developers should be cautious when selecting third-party libraries to integrate into their application.
		.001 Compromise Software Dependencies and Development Tools	Application developers should be cautious when selecting third-party libraries to integrate into their application.

References