

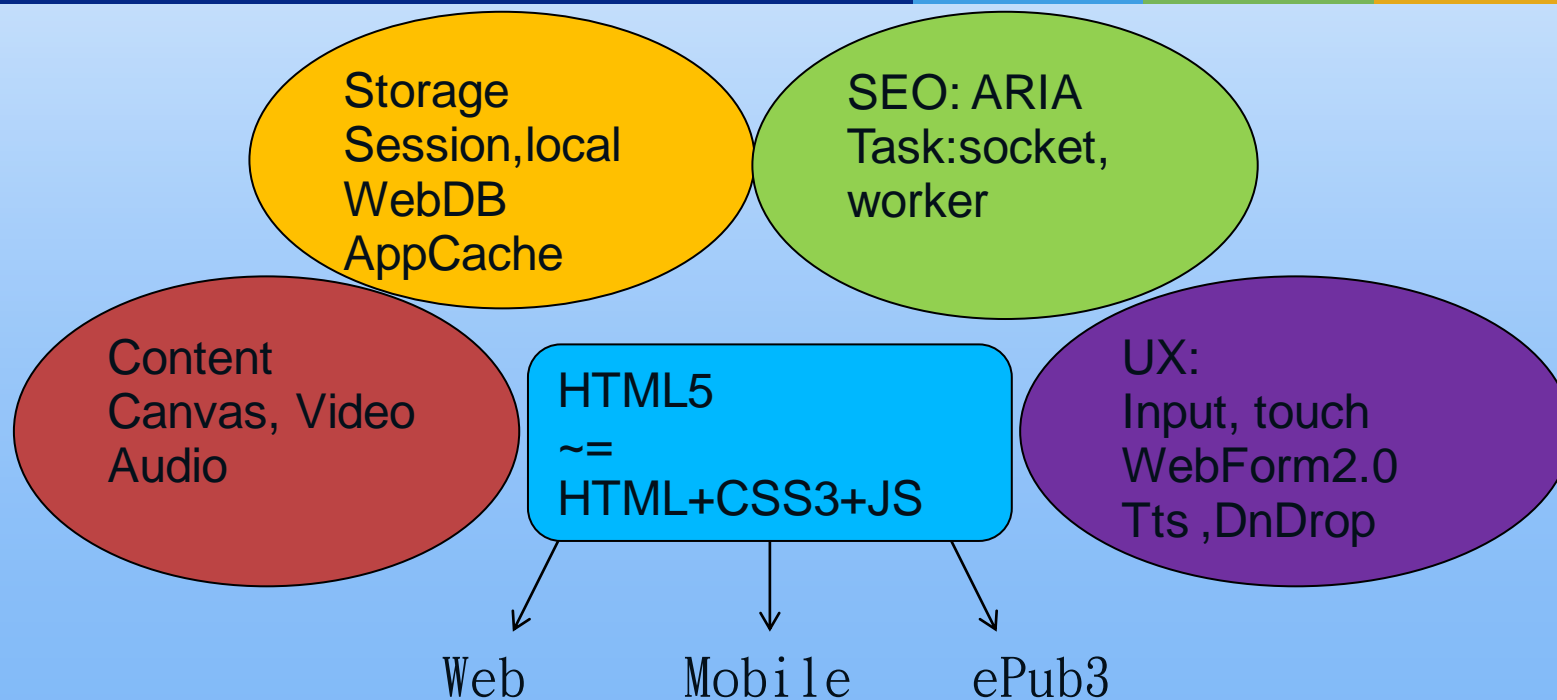
HTML5與Mobile安全威脅發展




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Agenda

- ▣ HTML5 安全威脅發展
- ▣ Mobile安全威脅發展
- ▣ Web Backend安全威脅發展

HTML5新功能與安全評估



-  localStorage 儲放XSS攻擊程式與shell code
-  HTML5 Botnet
-  利用HTML5 達到內部網路掃描

OWASP Top 10 Mobile Risks

OWASP Top 10 Mobile Risks

- M1 - Insecure Data Storage 不安全的資料儲存於用戶端
- M2 - Weak Server Side Controls 伺服器端安全控制脆弱
- M3 - Insufficient Transport Layer Protection 傳輸層保護不足
- M4 - Client Side Injection 用戶端注入變造
- M5 - Poor Authorization and Authentication 身分鑑別與授權機制不嚴謹
- M6 - Improper Session Handling 連線階段處理不適當
- M7 - Security Decisions Via Untrusted Inputs 對於不受信任輸入來源的檢測處置
- M8 - Side Channel Data Leakage 側通道的資訊洩漏
- M9 - Broken Cryptography 加密方法不嚴謹或失效
- M10 - Sensitive Information Disclosure 敏感資訊洩漏

補充：ENISA 智慧手機十大風險

1	<u>Data leakage resulting from device loss or theft</u>	High
2	<u>Unintentional disclosure of data</u>	High
3	<u>Attacks on decommissioned smartphones</u>	High
4	<u>Phishing attacks</u>	Medium
5	<u>Spyware attacks</u>	Medium
6	<u>Network Spoofing Attacks</u>	Medium
7	<u>Surveillance attacks</u>	Medium
8	<u>Diallerware attacks</u>	Medium
9	<u>Financial malware attacks</u>	Medium
10	<u>Network congestion</u>	Low

OWASP TOP 10 – 2010	OWASP TOP 10 – 2013 (New) RC1
A1-注入攻擊 (Injection)	A1-注入攻擊 (Injection)
A3-失效的驗證與連線管理 (Broken Authentication and Session Management)	A2-失效的身分驗證與連線管理 (Broken Authentication and Session Management)
A2-跨站腳本攻擊(Cross-Site Scripting, XSS)	A3-跨站腳本攻擊(Cross-Site Scripting, XSS)
A4-不安全的物件參考(Insecure Direct Object References)	A4-不安全的物件參考(Insecure Direct Object References)
A6-不當安全組態設定(Security Misconfiguration)	A5-不當安全組態設定(Security Misconfiguration)
A7-不安全的加密資料儲存--與A9合併→ (Insecure Cryptographic Storage)	A6-敏感資料暴露(Sensitive Data Exposure)
A8-限制網址存取失效--擴大為2013-A7→ (Failure to Restrict URL Access)	A7-缺少功能級別的存取控制(Missing Function Level Access Control)
A5-跨站請求偽造 (Cross-site Request Forgery, CSRF)	A8-跨站請求偽造 (Cross-site Request Forgery, CSRF)
<隱藏於A6: 不當安全組態設定> <buried in A6: Security Misconfiguration>	A9-使用已知漏洞的元件(Using Known Vulnerable Components)
A10-未驗證的重新導向與轉發(Unvalidated Redirects and Forwards)	A10-未驗證的重新導向與轉送 (Unvalidated Redirects and Forwards)
A9-傳輸層保護的不足 (Insufficient Transport Layer Protection)	與2010-A7合併至2013-A6