Iniziato	martedì, 9 gennaio 2024, 18:25
Stato	Completato
Terminato	martedì, 9 gennaio 2024, 18:39
Tempo impiegato	14 min. 23 secondi
Valutazione	14,00 su un massimo di 17,00 (82,35 %)

Domanda 1

Risposta errata

Which statement accurately describes the role of Google SafetyNet Attestation in mobile app development?

- a. Google SafetyNet Attestation ensures the security and integrity of the device's hardware.
- b. Google SafetyNet Attestation ensures the security and integrity of the device's software.
- oc. Google SafetyNet Attestation ensures the security and integrity of the device's software and hardware.

Risposta errata.

La risposta corretta è:

Google SafetyNet Attestation ensures the security and integrity of the **device's software and hardware**.

Domanda **2**

Risposta corretta

Which of the following best describes the purpose of the Android bootloader in the device's boot process?

- o a. The bootloader determines the **order** in which system components are loaded during startup.
- b. The bootloader is responsible for executing device drivers and managing peripheral devices.
- ⊚ c. The bootloader verifies the integrity of the operating system and allows for its secure boot process.

Risposta corretta.

La risposta corretta è:

The bootloader verifies the **integrity** of the operating system and allows for its secure boot process.

risposta corretta
Which one is NOT a booting mode for a device?
■ a. Debug mode. ✓
b. Recovery mode.
c. Normal mode.
Risposta corretta.
La risposta corretta è:
Debug mode.
Domanda 4
Risposta corretta
What is the primary purpose of Android TrustZone in mobile device architecture?
a. TrustZone ensures hardware-based isolation for secure execution of sensitive operations .
 b. TrustZone ensures hardware-based isolation for secure execution of sensitive operations and data. ✓
c. TrustZone ensures software-based isolation for secure execution of sensitive operations and data .
Risposta corretta.
La risposta corretta è:
TrustZone ensures hardware-based isolation for secure execution of sensitive operations and data.
Domanda 5
Risposta errata
Identify which one is an UNCOMMON threat model
identify which one is an excession of an each load.
 a. Due to the Android OS fragmentation, older or customized versions may have unpatched vulnerabilities. Attackers can target specific OS versions or take advantage of inconsistencies across devices.
 b. Installation of malicious apps that are disguised as legitimate applications and may perform activities such as data theft, unauthorized access, or aggressive advertising.
 c. Android devices connected to various networks, including public Wi-Fi networks, which can expose them to network-based
attacks.
Risposta errata.
La risposta corretta è:
Due to the Android OS fragmentation, older or customized versions may have unpatched vulnerabilities . Attackers can target specific OS versions or take advantage of inconsistencies across devices.

Webmail Uniweb

Domanda **3**

Domanda b Risposta corretta	Webmail Uniweb
Which classes of attacker can we have in a thre	eat model?
a. Remote, close or local	
b. Remote, proximal or local	
oc. External, proximal or internal	
Risposta corretta.	
La risposta corretta è: Remote, proximal or local	
Domanda 7 Risposta corretta	
Select the correct statement • a. Attackers rely on security vulnerabili	ties to bypass the technical gap between the threat model and the attacker's aim. ✔
 b. Attackers rely on security exploits to 	bypass the technical gap between the threat model and the attacker's aim .
oc. Attackers rely on security vulnerabili	ties to bypass the technical gap between the defence model and the attacker's aim.
Risposta corretta.	
La risposta corretta è: Attackers rely on security vulnerabilities to b	ypass the technical gap between the threat model and the attacker's aim .
Domanda 8 Risposta corretta	
Which one is NOT a vulnerability type?	
a. Elevation of privilege	
b. Information disclosure	
Risposta corretta.	
La risposta corretta è: OS fragmentation	

Domanda 9 Risposta corre	<u>Webmail</u> <u>Uniweb</u>
What is a	repackaging attack?
	tic a malicious tachnique whose an attacker madifice an aviating and by adding malicious code and radictuibuting it all
	t is a malicious technique where an attacker modifies an existing app by adding malicious code and redistributing it. ✓ t is a malicious technique where an attacker modifies an existing app by adding malicious code at runtime .
	t is a malicious technique where an attacker creates a new app by adding malicious code and redistributing it.
○ c. l	t is a malicious technique where an attacker creates a new app by adding malicious code and redistributing it.
Risposta	corretta.
	ta corretta è:
It is a ma	licious technique where an attacker modifies an existing app by adding malicious code and redistributing it.
Domanda 10	
Risposta corr	etta etta
What is s	symbolic execution?
	symbolic execution is a method that explores all possible program paths by using symbolic values as inputs to detect program 🗸 rulnerabilities or generate test cases.
	symbolic execution is a method that explores all possible program paths by using symbolic values as inputs to cause program crashes.
O c. S	symbolic execution is a method that explores all reachable program paths by using symbolic values as inputs to launch exploits .
Risposta	corretta.
Symbolic	ta corretta è: execution is a method that explores all possible program paths by using symbolic values as inputs to detect program pilities or generate test cases .
Domanda 11 Risposta corre	etta
What is t	ne primary purpose of the Android Zygote process?
○ a. l	t manages the communication between the Android runtime and the hardware components.
b. I	t handles the management of app processes and their life cycles. 🗸
O c.	It is responsible for compiling and optimizing the Java bytecode of Android apps.

Risposta corretta.

La risposta corretta è:

It handles the $\mbox{\it management}$ of app processes and their life cycles.

Domanda 12 Risposta co	Webmail Uniweb
Which	information is NOT contained in an Android app certificate?
	The issuer, i.e. the entity that issued the certificate.
	The validity period.
C.	The developer private key. ✓
Rispos	ta corretta.
	osta corretta è:
The de	eveloper private key.
Domanda 13	
Risposta co	orretta
How d	oes a bound service in Android communicate with components in the application?
О а.	Bound services communicate using explicit intents .
b.	Bound services use broadcast receivers for communication.
C.	Bound services provide an interface through which components can bind and communicate. 🗸
Rispos	ta corretta.
	osta corretta è:
Bound	services provide an interface through which components can bind and communicate.
Domanda 14	
Risposta co	orretta
How d	oes an Android Content Provider facilitate data sharing between different applications?
a.	Content Providers provide a structured interface for accessing and sharing data between applications. ✓
O b.	Content Providers use implicit intents to share data between applications.
O c.	Content Providers expose a set of APIs for inter-process communication.
Rispos	ta corretta.

La risposta corretta è:

Content Providers provide a **structured interface** for accessing and sharing data between applications.

Domanda 15	Webmail Uniweb	
Risposta co	orretta	
The An	ndroid instrumentation	
a.	provides a framework for running tests on Android applications, automating interactions, and monitoring the application's behavior during testing and debugging .	•
) b.	provides a framework for running tests on Android applications, automating interactions, and monitoring the application's behavior during the compilation .	
O c.	provides a framework for running tests on Android applications, automating interactions, and monitoring the application's behavior during the development	
Rispost	sta corretta.	
provide	posta corretta è: les a framework for running tests on Android applications, automating interactions, and monitoring the application's ior during testing and debugging .	
Domanda 16 Risposta co		
What i	is the purpose of taint analysis?	
a.	to track and identify the data flow . 🗸	
○ b.	to help in optimizing code execution.	
O c.	to identify memory leaks in a software application.	
Rispost	sta corretta.	
	posta corretta è: ck and identify the data flow .	
Domanda 17 Risposta er		
Which	technique is mostly affected by scalability issues?	

a. Dynamic analysis. X

b. Taint analysis.

oc. Static analysis.

Risposta errata.

La risposta corretta è: Static analysis.