



OWASP Cornucopia

BACKGROUND

OWASP = Open Web Application Security Project



Who is the OWASP® Foundation?

The Open Web Application Security Project® (OWASP) is a nonprofit foundation that works to improve the security of software. Through community-led open source software projects, hundreds of local chapters worldwide, tens of thousands of members, and leading educational and training conferences, the OWASP Foundation is the source for developers and technologists to secure the web.

- Tools and Resources
- Community and Networking
- Education & Training

For nearly two decades corporations, foundations, developers, and volunteers have supported the OWASP Foundation and its work.

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PEN-AND-PAPER GAMES OWASP

Snakes and Ladders

Cornucopia

Side note: Snakes and Ladders



Cornucopia: Heavily based on EoP

FOCUS

Primarily for Webapplication-Analysis

GAMEPLAY



Choose first player by chance



Different topics

Different colors

Turn based

Proposals

Valid for all players?

Proposals

Valid for all players?

Current player gets

+1

Proposals

Valid for all players?

Current player gets

+1

A winner every round

Order A, K, Q, 10 ... 2

A winner every round

Order A, K, Q, 10 ... 2

Winner scores

+1

A winner every round

Order A, K, Q, 10 ... 2

Winner scores

+1

Round over

Winner chooses new topic

TOPICS

DATA VALIDATION & ENCODING

	8	9	10	J
Sarah can bypass the centralized sanitization routines since they are not being used comprehensively	put validation failures or sanitized	trust the source of the data, only stored data on a verification validation tend to be	over input validation or code or routines passed	
OWASP SCP <u>15, 169</u>				
OWASP ASVS <u>1.7, 5.21, 5.23</u>			<u>5, 16.8</u>	
OWASP AppSensor -				
CAPEC <u>28, 31, 152, 160, 468</u>			<u>5,202,218,463</u>	
SAFECODE <u>2, 17</u>				
OWASP Compendium Ecommerce Website Edition v1.20-EN	Edition v1.20-EN	Edition v1.20-EN	Edition v1.20-EN	Edition v1.20-EN

AUTHENTICATION

8

Kate can bypass authentication because it does not fail secure (i.e. it defaults to allowing unauthenticated access)

9

Take more because requirements are not use strong such as two ; no -authenticate

10

Authentication centralized even and /service, once being used

J

resources or there is no requirement, or it assumed would be some other system some previous

OWASP SCP
28
OWASP ASVS
2.6
OWASP AppSensor
1
CAPEC
115
SAFECODE
28
OWASP Commerce Ecommerce Website Edition v1.20-EN

Website Edition v1.20-EN
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Website Edition v1.20-EN



SESSION MANAGEMENT

Matt can abuse long sessions because the application does not require periodic re-authentication to check if privileges have changed

OWASP SCP
96

OWASP ASVS
-

OWASP AppSensor
-

CAPEC
21

SAFECode
28

OWASP Commerce Ecommerce Website Edition v1.2-EN

8

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10

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SCORESHEET

Data Validation and Encoding

8 -
9 -
10 -
J -

Session Management

8 -
9 -
10 -
J -

Cryptography

8 -
9 -
10 -
J -

Authentication

8 -
9 -
10 -
J -

Authorization

8 -
9 -
10 -
J -

Cornucopia

8 -
9 -
10 -
J -

8

Matt can abuse long sessions because the application does not require periodic re-authentication to check if privileges have changed

OWASP SCP

96

OWASP ASVS

-

OWASP AppSensor

-

CAPEC

21

SAFECODE

28

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Session Management

8 - Set a proper session timeout

9 -

10 -

J -

FURTHER INFORMATION

<https://www.youtube.com/watch?v=BZVoQurTEMc>

<https://www.youtube.com/watch?v=i5Y0akWj31k>

<https://owasp.org/www-project-cornucopia/>

<https://owasp.org/www-project-snakes-and-ladders/>





ANY QUESTIONS?