

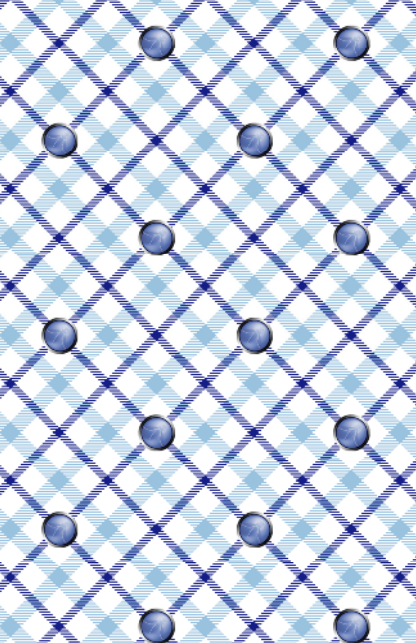




You have invented a new attack
against Cryptography

CRYPTOGRAPHY

*Read more about this topic in
OWASP's free Cheat Sheets
on Cryptographic Storage,
and Transport Layer
Protection*



Kyun can access data because it has been obfuscated rather than using an approved cryptographic function

OWASP SCP

133, 135

OWASP ASVS

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OWASP AppSensor

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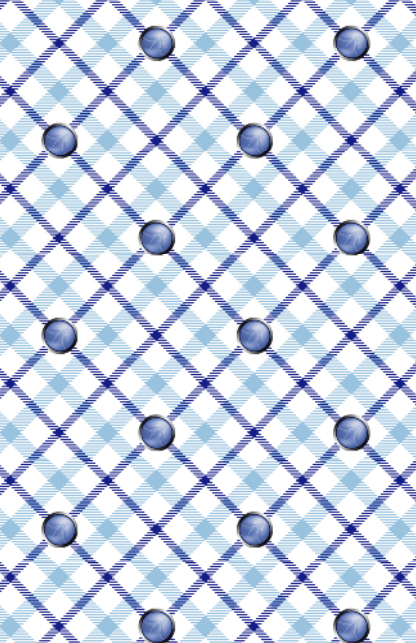
CAPEC

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SAFECode

21, 29

OWASP Cornucopia Ecommerce Website Edition v1.02



Axel can modify transient or permanent data (stored or in transit), or source code, or updates/patches, or configuration data, because it is not subject to integrity checking

OWASP SCP
92, 204, 211, 213

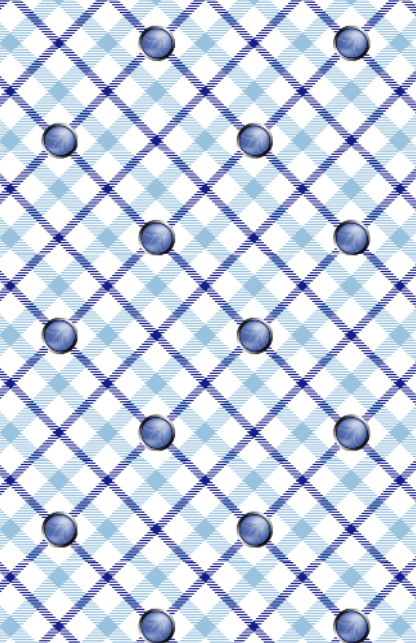
OWASP ASVS
12.3, 13.2

OWASP AppSensor
SE1, IE4

CAPEC
31, 39, 68, 75, 133, 145, 162, 203, 438-9, 442

SAFECode
12, 14

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Paulo can access data in transit that is not encrypted, even though the channel is encrypted

OWASP SCP

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OWASP ASVS

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OWASP AppSensor

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CAPEC

185, 186, 187

SAFECode

14, 29, 30

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Kyle can bypass cryptographic controls because they do not fail securely (i.e. they default to unprotected)

OWASP SCP

103, 145, 147

OWASP ASVS

7.2

OWASP AppSensor

-

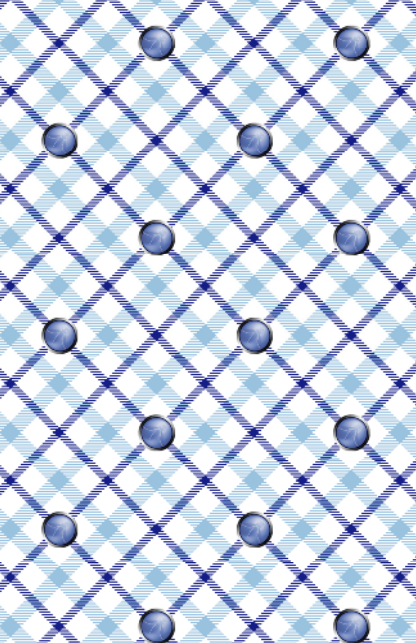
CAPEC

97

SAFECode

21, 29

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Romain can read and modify data in transit (e.g. cryptographic secrets, credentials, session identifiers, personal and commercially-sensitive data), in communications within the application, or between the application and users, or between the application and external systems

OWASP SCP

36, 37, 133, 143, 146, 147

OWASP ASVS

9.2

OWASP AppSensor

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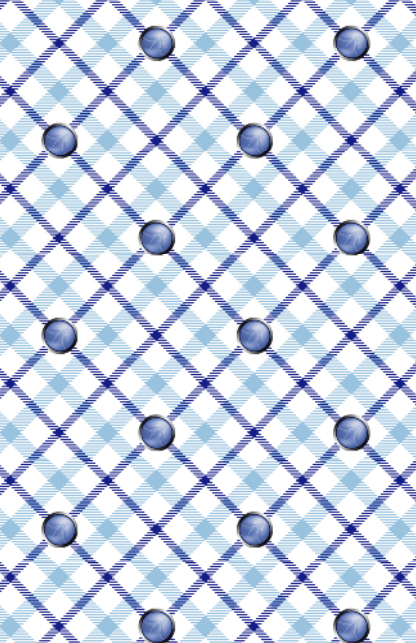
CAPEC

31, 57, 102, 158, 384, 466

SAFECode

29

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Gunter can intercept or modify encrypted data in transit because the protocol is poorly deployed, or weakly configured, or certificates are invalid, or certificates are not trusted, or the connection can be degraded to a weaker or un-encrypted communication

OWASP SCP

37, 75, 144, 145, 148, 149

OWASP ASVS

10.1, 10.2, 10.3, 10.5, 10.8, 10.9, V11.5

OWASP AppSensor

IE4

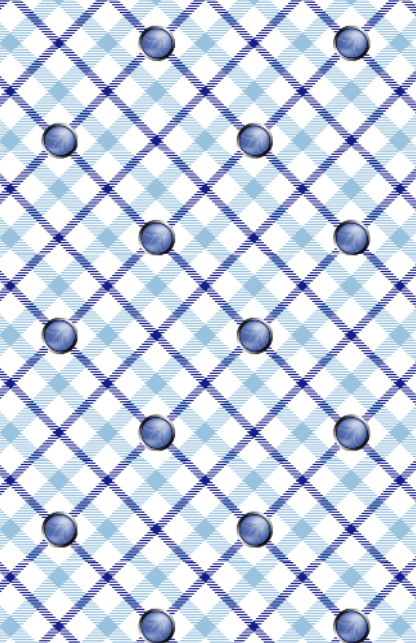
CAPEC

31, 217

SAFECode

14, 29, 30

OWASP Cornucopia Ecommerce Website Edition v1.02



Eoin can access stored business data (e.g. passwords, session identifiers, PII, cardholder data) because it is not securely encrypted or securely hashed

OWASP SCP

30, 70, 133, 135, 171

OWASP ASVS

2.13, 2.14, 7.4, 8.10, 9.2

OWASP AppSensor

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CAPEC

31, 37, 55

SAFECode

21, 29, 31



Andy can bypass random number generation, random GUID generation, hashing and encryption functions because they have been self-built and/or are weak

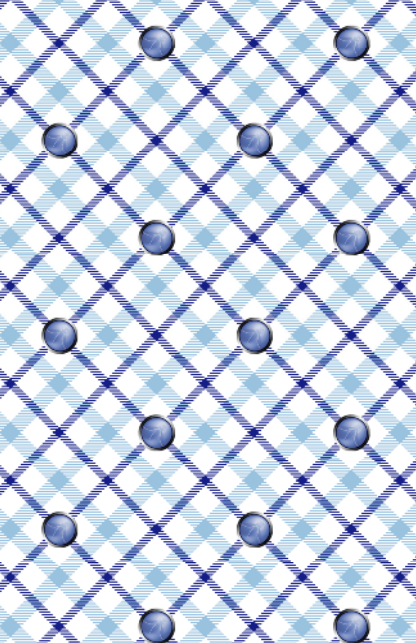
OWASP SCP
30, 60, 104, 105

OWASP ASVS
7.6, 7.7, 7.8

OWASP AppSensor
-

CAPEC
97

SAFECode
14, 21, 29, 32, 33



Susanna can break the cryptography in use because it is not strong enough for the degree of protection required, or it is not strong enough for the amount of effort the attacker is willing to make

OWASP SCP

104, 105

OWASP ASVS

7.6, 7.7, 7.8

OWASP AppSensor

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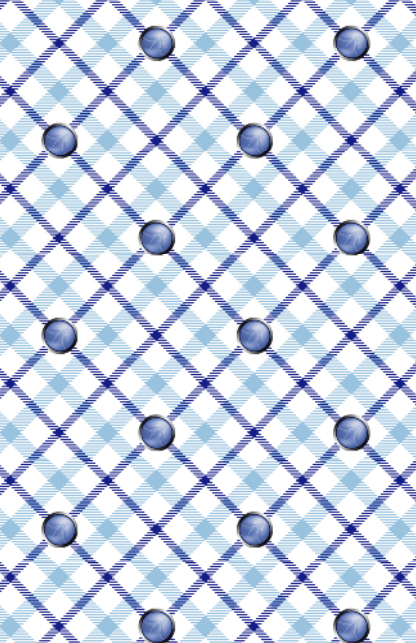
CAPEC

97, 463

SAFECode

14, 21, 29, 31, 32, 33

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Justin can read credentials for accessing internal or external resources, services and others systems because they are stored in an unencrypted format, or saved in the source code

OWASP SCP

35, 171, 172

OWASP ASVS

2.14, 12.1

OWASP AppSensor

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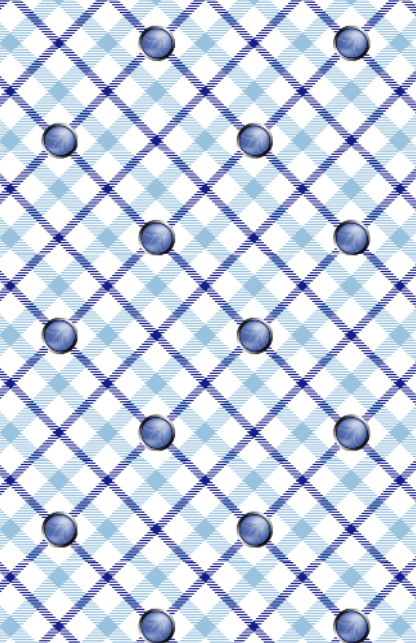
CAPEC

116

SAFECode

21, 29

OWASP Cornucopia Ecommerce Website Edition v1.02



Randolph can access or predict
the master cryptographic secrets

OWASP SCP

35, 102

OWASP ASVS

7.3

OWASP AppSensor

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CAPEC

116, 117

SAFECode

21, 29

OWASP Cornucopia Ecommerce Website Edition v1.02



Dan can influence or alter cryptography code/routines (encryption, hashing, digital signatures, random number and GUID generation) and can therefore bypass them

OWASP SCP

31, 101

OWASP ASVS

7.1

OWASP AppSensor

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CAPEC

207, 211

SAFECode

14, 21, 29

OWASP Cornucopia Ecommerce Website Edition v1.02