

Security Findings of Project "replaceSHA256DES"

Analysis Date: 2020-06-04 05:16:38

Analyzed Workspace:

Packages:	1	Total LOC:	16
Classes:	1	No. of Bytecode Instructions:	41

Computed Call Graph:

Classes not in Call Graph:	0	Methods not in Call Graph:	0
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Findings in List:

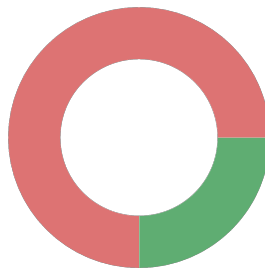
All Findings:	4	Problematic Findings:	3
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Finding Problem Types:



■ Cryptography: Crypto...: 1
■ Cryptography: Crypto...: 1
■ Cryptography: Check ...: 1

Finding Classifications:



■ High risk: 3
■ No risk: 1

Finding Ratings:

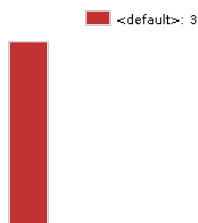


■ Medium risk: 2
■ Low risk: 1

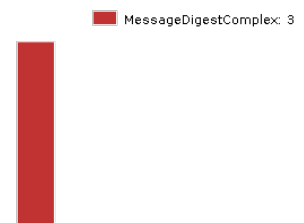
OWASP Top 10 2017



Hot Spots (Packages)



Hot Spots (Classes)



Findings List

Finding ID:	4	Problem Type:	Cryptography: Check that only allowed hash algorithms are used (Protocol Check Findings)
Classification:	Warning	Date:	2020-06-04 05:16:38 - new
Rating:	5.00	Reviewed State:	Not Reviewed
Location:	MessageDigestComplex.java (<Source Code>):9		
Tags:	no tags assigned		
Comment:	no comment		
Description:	<p>An identified location for problem type 'Cryptography: Check that only allowed hash algorithms are used'.</p> <p>The protocol check detected something wrong when encountering symbol 'AnyAlgorithm_MessageDigestGetInstance'.</p> <p>Violated protocol: Check Allowed Hash Algorithms</p> <p>Protocol description:</p> <p>Allow only a given set of hash algorithm names where algorithm names are expected.</p> <p>The algorithm names are configured via constant value constraint variables.</p> <p>Names to be checked against can be found here: https://docs.oracle.com/javase/8/docs/technotes/guides/security/StandardNames.html</p> <p>Matching pattern in protocol check kind 'AnyAlgorithm_MessageDigestGetInstance':</p> <pre>static java.security.MessageDigest java.security.MessageDigest.getInstance(java.lang.String, **)</pre>		

Finding ID:	2	Problem Type:	Cryptography: Cryptographic Algorithms Used in Project (Special Code)
Classification:	Information	Date:	2020-06-04 05:16:38 - new
Rating:	0.00	Reviewed State:	Not Reviewed
Location:	MessageDigestComplex.java (<Source Code>):9		
Tags:	no tags assigned		
Comment:	no comment		
Description:	<p>An identified location for problem type 'Cryptography: Cryptographic Algorithms Used in Project'.</p> <p>Declared in: java.security.MessageDigest</p> <p>Matching pattern in special code kind 'Cryptography: Cryptographic Algorithms Used in Project':</p> <pre>static java.security.** java.security.**.getInstance(java.lang.String)</pre>		

Finding ID:	1	Problem Type:	Cryptography: Cryptographic Algorithms w/o Specified Crypto-Provider (Special Code)
Classification:	Warning	Date:	2020-06-04 05:16:38 - new
Rating:	1.00	Reviewed State:	Not Reviewed
Location:	MessageDigestComplex.java (<Source Code>):9		
Tags:	no tags assigned		
Comment:	no comment		
Description:	<p>An identified location for problem type 'Cryptography: Cryptographic Algorithms w/o Specified Crypto-Provider'.</p> <p>Declared in: java.security.MessageDigest</p> <p>Matching pattern in special code kind 'Cryptography: Cryptographic Algorithms w/o Specified Crypto-Provider':</p> <pre>static java.security.** java.security.**.getInstance(java.lang.String)</pre>		

Findings List

Finding ID:	3	Problem Type:	Cryptography: Cryptographic Hashing (Protocol Check Findings)
Classification:	Warning	Date:	2020-06-04 05:16:38 - new
Rating:	5.00	Reviewed State:	Not Reviewed
Location:	MessageDigestComplex.java (<Source Code>):10		
Tags:	no tags assigned		
Comment:	<i>no comment</i>		
Description:	<p>An identified location for problem type 'Cryptography: Cryptographic Hashing'. Dataflow ended in a state that was not GOOD.</p> <p>Violated protocol: MessageDigest Use for Cryptographic Hashing Protocol description: A MessageDigest instance is created and used for cryptographic hashing.</p>		