

## Security Findings of Project "baseCase"

**Analysis Date:** 2020-05-15 09:02:55

### Analyzed Workspace:

Packages:	1	Total LOC:	17
Classes:	1	No. of Bytecode Instructions:	30

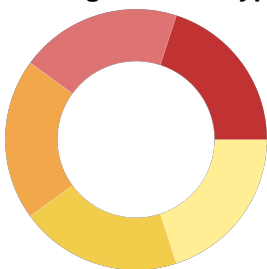
### Computed Call Graph:

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

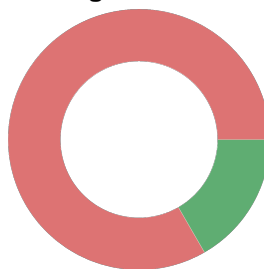
All Findings:	6	Problematic Findings:	5
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#### Finding Problem Types:



- Cryptography: Crypto...: 1
- Cryptography: Crypto...: 1
- Usage: PrintStackTra...: 1
- FindSecBugs: MD2, MD...: 1
- Other: 1

#### Finding Classifications:



- High risk: 5
- No risk: 1

#### Finding Ratings:

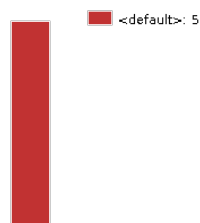


- High risk: 1
- Medium risk: 3
- Low risk: 1

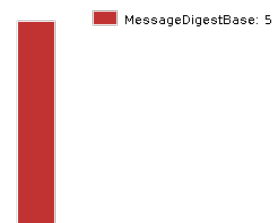
#### OWASP Top 10 2017



#### Hot Spots (Packages)



#### Hot Spots (Classes)



## Findings List

<b>Finding ID:</b>	5	<b>Problem Type:</b>	Cryptography: Check that only allowed hash algorithms are used (Protocol Check Findings)
<b>Classification:</b>	Warning	<b>Date:</b>	2020-05-15 09:02:55 - new
<b>Rating:</b>	5.00	<b>Reviewed State:</b>	Not Reviewed
<b>Location:</b>	MessageDigestBase.java (<Source Code>):9		
<b>Tags:</b>	no tags assigned		
<b>Comment:</b>	no comment		
<b>Description:</b>	<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: <a href="https://docs.oracle.com/javase/8/docs/technotes/guides/security/StandardNames.html">https://docs.oracle.com/javase/8/docs/technotes/guides/security/StandardNames.html</a></p> <p>Matching pattern in protocol check kind 'AnyAlgorithm_MessageDigestGetInstance':</p> <pre>static java.security.MessageDigest java.security.MessageDigest.getInstance(java.lang.String, **)</pre>		

<b>Finding ID:</b>	3	<b>Problem Type:</b>	Cryptography: Cryptographic Algorithms Used in Project (Special Code)
<b>Classification:</b>	Information	<b>Date:</b>	2020-05-15 09:02:55 - new
<b>Rating:</b>	0.00	<b>Reviewed State:</b>	Not Reviewed
<b>Location:</b>	MessageDigestBase.java (<Source Code>):9		
<b>Tags:</b>	no tags assigned		
<b>Comment:</b>	no comment		
<b>Description:</b>	<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>		

<b>Finding ID:</b>	1	<b>Problem Type:</b>	Cryptography: Cryptographic Algorithms w/o Specified Crypto-Provider (Special Code)
<b>Classification:</b>	Warning	<b>Date:</b>	2020-05-15 09:02:55 - new
<b>Rating:</b>	1.00	<b>Reviewed State:</b>	Not Reviewed
<b>Location:</b>	MessageDigestBase.java (<Source Code>):9		
<b>Tags:</b>	no tags assigned		
<b>Comment:</b>	no comment		
<b>Description:</b>	<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

<b>Finding ID:</b>	4	<b>Problem Type:</b>	Cryptography: Cryptographic Hashing (Protocol Check Findings)
<b>Classification:</b>	Warning	<b>Date:</b>	2020-05-15 09:02:55 - new
<b>Rating:</b>	5.00	<b>Reviewed State:</b>	Not Reviewed
<b>Location:</b>	MessageDigestBase.java (<Source Code>):10		
<b>Tags:</b>	no tags assigned		
<b>Comment:</b>	no comment		
<b>Description:</b>	<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>		

<b>Finding ID:</b>	6	<b>Problem Type:</b>	FindSecBugs: MD2, MD4 and MD5 are weak hash functions (SpotBugs Security Issues)
<b>Classification:</b>	Warning	<b>Date:</b>	2020-05-15 09:02:55 - new
<b>Rating:</b>	8.00	<b>Reviewed State:</b>	Not Reviewed
<b>Location:</b>	MessageDigestBase.java (<Source Code>):9		
<b>Tags:</b>	no tags assigned		
<b>Comment:</b>	no comment		
<b>Description:</b>	<p>A finding identified by the external 'SpotBugs' plugin: MD5 is not a recommended cryptographic hash function</p> <p>- In method MessageDigestBase.main(String[]) - Value MD5</p>		

<b>Finding ID:</b>	2	<b>Problem Type:</b>	Usage: PrintStackTrace (Special Code)
<b>Classification:</b>	Warning	<b>Date:</b>	2020-05-15 09:02:55 - new
<b>Rating:</b>	5.00	<b>Reviewed State:</b>	Not Reviewed
<b>Location:</b>	MessageDigestBase.java (<Source Code>):14		
<b>Tags:</b>	no tags assigned		
<b>Comment:</b>	no comment		
<b>Description:</b>	<p>An identified location for problem type 'Usage: PrintStackTrace'. Declared in: java.security.NoSuchAlgorithmException</p> <p>Matching pattern in special code kind 'Usage: PrintStackTrace': public void java.lang.Throwable.printStackTrace()</p>		