

Security Findings of Project "ARCFOURECBNoPadding"

Analysis Date: 2020-03-07 03:18:41

Analyzed Workspace:

| | | | |
|-----------|---|-------------------------------|-----|
| Packages: | 1 | Total LOC: | 49 |
| Classes: | 1 | No. of Bytecode Instructions: | 201 |

Computed Call Graph:

| | | | |
|----------------------------|---|----------------------------|---|
| Classes not in Call Graph: | 0 | Methods not in Call Graph: | 0 |
|----------------------------|---|----------------------------|---|

Findings in List:

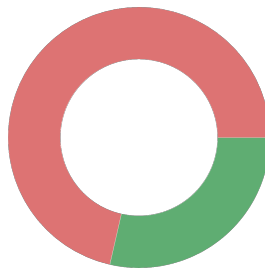
| | | | |
|---------------|---|-----------------------|---|
| All Findings: | 7 | Problematic Findings: | 5 |
|---------------|---|-----------------------|---|

Finding Problem Types:



■ Cryptography: Crypto...: 2
■ Cryptography: Check ...: 2
■ Usage: PrintStackTra...: 1

Finding Classifications:



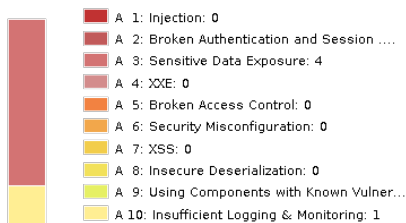
■ High risk: 5
■ No risk: 2

Finding Ratings:

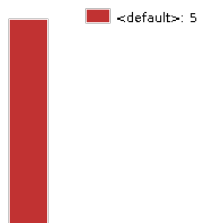


■ Medium risk: 3
■ Low risk: 2

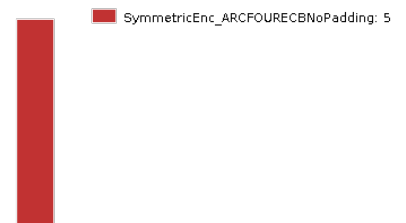
OWASP Top 10 2017



Hot Spots (Packages)



Hot Spots (Classes)



Findings List

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| Finding ID: | 6 | Problem Type: | Cryptography: Check that only allowed crypto algorithms are used (Protocol Check Findings) |
| Classification: | Warning | Date: | 2020-03-07 03:18:41 - new |
| Rating: | 5.00 | Reviewed State: | Not Reviewed |
| Location: | SymmetricEnc_ARCFOURECBNoPadding.java (<Source Code>):24 | | |
| Tags: | no tags assigned | | |
| Comment: | no comment | | |
| Description: | <p>An identified location for problem type 'Cryptography: Check that only allowed crypto algorithms are used'.</p> <p>The protocol check detected something wrong when encountering symbol 'AnyAlgorithm_KeyGeneratorGetInstance'.</p> <p>Violated protocol: Check Allowed Cryptography Algorithms</p> <p>Protocol description:</p> <p>Allow only a given set of cryptography 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_KeyGeneratorGetInstance':</p> <pre>static javax.crypto.KeyGenerator javax.crypto.KeyGenerator.getInstance(java.lang.String, ***)</pre> | | |

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| Finding ID: | 7 | Problem Type: | Cryptography: Check that only allowed crypto algorithms are used (Protocol Check Findings) |
| Classification: | Warning | Date: | 2020-03-07 03:18:41 - new |
| Rating: | 5.00 | Reviewed State: | Not Reviewed |
| Location: | SymmetricEnc_ARCFOURECBNoPadding.java (<Source Code>):35 | | |
| Tags: | no tags assigned | | |
| Comment: | no comment | | |
| Description: | <p>An identified location for problem type 'Cryptography: Check that only allowed crypto algorithms are used'.</p> <p>The protocol check detected something wrong when encountering symbol 'AnyAlgorithm_CipherConstruction':</p> <p>Only AES is allowed as algorithm for encryption or decryption.</p> <p>Violated protocol: Check Allowed Cryptography Algorithms</p> <p>Protocol description:</p> <p>Allow only a given set of cryptography 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_CipherConstruction':</p> <pre>static javax.crypto.Cipher javax.crypto.Cipher.getInstance(java.lang.String, ***)</pre> | | |

Findings List

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|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|
| Finding ID: | 4 | Problem Type: | Cryptography: Cryptographic Algorithms Used in Project (Special Code) |
| Classification: | Information | Date: | 2020-03-07 03:18:41 - new |
| Rating: | 0.00 | Reviewed State: | Not Reviewed |
| Location: | SymmetricEnc_ARCFOURECBNoPadding.java (<Source Code>):24 | | |
| Tags: | no tags assigned | | |
| Comment: | no comment | | |
| Description: | An identified location for problem type 'Cryptography: Cryptographic Algorithms Used in Project'. Declared in: javax.crypto.KeyGenerator | | |
| | Matching pattern in special code kind 'Cryptography: Cryptographic Algorithms Used in Project': static javax.crypto.** javax.crypto.**.getInstance(java.lang.String) | | |

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|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|
| Finding ID: | 5 | Problem Type: | Cryptography: Cryptographic Algorithms Used in Project (Special Code) |
| Classification: | Information | Date: | 2020-03-07 03:18:41 - new |
| Rating: | 0.00 | Reviewed State: | Not Reviewed |
| Location: | SymmetricEnc_ARCFOURECBNoPadding.java (<Source Code>):35 | | |
| Tags: | no tags assigned | | |
| Comment: | no comment | | |
| Description: | An identified location for problem type 'Cryptography: Cryptographic Algorithms Used in Project'. Declared in: javax.crypto.Cipher | | |
| | Matching pattern in special code kind 'Cryptography: Cryptographic Algorithms Used in Project': static javax.crypto.** javax.crypto.**.getInstance(java.lang.String) | | |

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| Finding ID: | 1 | Problem Type: | Cryptography: Cryptographic Algorithms w/o Specified Crypto-Provider (Special Code) |
| Classification: | Warning | Date: | 2020-03-07 03:18:41 - new |
| Rating: | 1.00 | Reviewed State: | Not Reviewed |
| Location: | SymmetricEnc_ARCFOURECBNoPadding.java (<Source Code>):24 | | |
| Tags: | no tags assigned | | |
| Comment: | no comment | | |
| Description: | An identified location for problem type 'Cryptography: Cryptographic Algorithms w/o Specified Crypto-Provider'. Declared in: javax.crypto.KeyGenerator Matching pattern in special code kind 'Cryptography: Cryptographic Algorithms w/o Specified Crypto-Provider': static javax.crypto.** javax.crypto.**.getInstance(java.lang.String) | | |

Findings List

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|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|
| Finding ID: | 2 | Problem Type: | Cryptography: Cryptographic Algorithms w/o Specified Crypto-Provider (Special Code) |
| Classification: | Warning | Date: | 2020-03-07 03:18:41 - new |
| Rating: | 1.00 | Reviewed State: | Not Reviewed |
| Location: | SymmetricEnc_ARCFOURECBNoPadding.java (<Source Code>):35 | | |
| Tags: | no tags assigned | | |
| Comment: | <i>no comment</i> | | |
| Description: | <p>An identified location for problem type 'Cryptography: Cryptographic Algorithms w/o Specified Crypto-Provider'.</p> <p>Declared in: javax.crypto.Cipher</p> <p>Matching pattern in special code kind 'Cryptography: Cryptographic Algorithms w/o Specified Crypto-Provider':</p> <pre>static javax.crypto.** javax.crypto.**.getInstance(java.lang.String)</pre> | | |

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| Finding ID: | 3 | Problem Type: | Usage: PrintStackTrace (Special Code) |
| Classification: | Warning | Date: | 2020-03-07 03:18:41 - new |
| Rating: | 5.00 | Reviewed State: | Not Reviewed |
| Location: | SymmetricEnc_ARCFOURECBNoPadding.java (<Source Code>):46 | | |
| Tags: | no tags assigned | | |
| Comment: | <i>no comment</i> | | |
| Description: | <p>An identified location for problem type 'Usage: PrintStackTrace'.</p> <p>Declared in: java.security.GeneralSecurityException</p> <p>Matching pattern in special code kind 'Usage: PrintStackTrace':</p> <pre>public void java.lang.Throwable.printStackTrace()</pre> | | |