

CheckMate Report

🛡️ ***Code security audit***

<https://github.com/adedayo/checkmate>

Mon, 11 Jan 2021 03:14:30 UTC

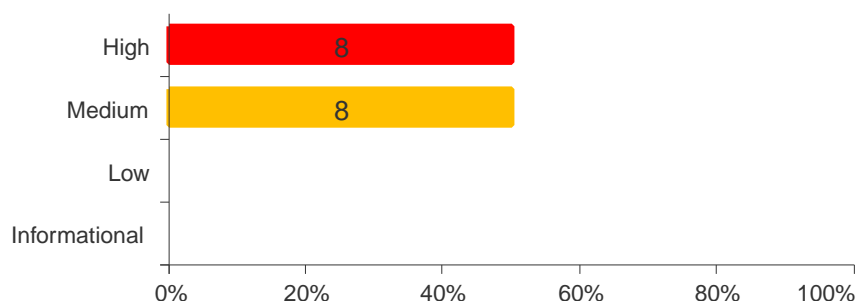
1. Executive Summary

This is a report of the security audit of your codebase completed at Mon, 11 Jan 2021 03:14:30 UTC

Overall Security Grade



Issues Found



1.1. Metrics about your codebase

The following is a summary of metrics calculated during the security audit of your codebase:

Total number of issues	16
Total number of High Issues	8
Total number of Medium Issues	8
Total number of Low Issues	0
Total number of Informational Issues	0
No of files processed	37
Issues per file type	0
Average number of issues per file	0

2. Issue Details

Problem 1. Warning! You may be sharing confidential (Java key store) data with your code, **Confidence:** Medium

Source code evidence:

File: tmp/static-analysis-test-code/src/resources/keystore

```
<nil>
```

Found at: Line 0, Char 0 ⇒ Line 0, Char 0. **Found by:** ConfidentialFiles.

Analysis



Warning! You may be sharing confidential (Java key store) data with your code
Confidence Medium

Problem 2. Warning! You may be sharing confidential (Licence or encrypted security key or Avira AntiVir Personal license key) data with your code, **Confidence:** Medium

Source code evidence:

File: tmp/static-analysis-test-code/src/resources/private.key

```
<nil>
```

Found at: Line 0, Char 0 ⇒ Line 0, Char 0. **Found by:** ConfidentialFiles.

Analysis



Warning! You may be sharing confidential (Licence or encrypted security key or Avira AntiVir Personal license key) data with your code **Confidence** Medium

Problem 3. Unbroken string may be a secret, **Confidence:** High

Source code evidence:

File: tmp/static-analysis-test-code/src/main/java/com/github/adedayo/test/SecretsInCode.java

```
"VGhpcyBxdWVyeSB3YXMgc2VydmVkJGJ5IHRoZSBSSVBFIERhdGFpYXNlIFF1ZXJ5IFNlcnZpY2UgdmVyc2l1b  
iAxLjk1LjEgKEJMQUFSS09QKQo="
```

Found at: Line 13, Char 20 ⇒ Line 13, Char 134. **Found by:** SecretString.

Analysis



Unbroken string may be a secret **Confidence** Medium



Value looks suspiciously like an encoded secret (e.g. Base64 or Hex encoded)
Confidence High

Problem 4. Unbroken string may be a secret, **Confidence:** High

Source code evidence:

File: tmp/static-analysis-test-code/src/main/java/com/github/adedayo/test/SecretsInCode.java

```
"VGhpcyBxdWVyeSB3YXMgc2VydmVkJGJ5IHRoZSBSSVBFIERhdGFjYXNlIFF1ZXJ5IFNlcnZpY2UgdmVyc2lvaXNlLjEgKEJMQUFSS09QKQo="
```

Found at: Line 20, Char 16 ⇒ Line 20, Char 130. **Found by:** SecretString.

Analysis



Unbroken string may be a secret **Confidence** Medium



Value looks suspiciously like an encoded secret (e.g. Base64 or Hex encoded)
Confidence High

Problem 5. Hard-coded secret assignment, **Confidence:** High

Source code evidence:

File: tmp/static-analysis-test-code/src/main/java/com/github/adedayo/test/SecretsInCode.java

```
password = "sssw$S4466gxqww3_Suuuqedqedqe%$Axwadasxcacascasca"
```

Found at: Line 3, Char 11 ⇒ Line 3, Char 73. **Found by:** SecretAssignment.

Analysis



Variable name suggests it is a secret **Confidence** High



Value looks suspiciously like a secret **Confidence** Medium

Problem 6. Hard-coded secret assignment, **Confidence:** High

Source code evidence:

File: tmp/static-analysis-test-code/src/main/java/com/github/adedayo/test/SecretsInCode.java

```
crypto = "aW{**7]K&E4,`}$G{!q;FjH`/]cS_@"
```

Found at: Line 5, Char 11 ⇒ Line 5, Char 52. **Found by:** SecretAssignment.

Analysis



Variable name suggests it is a secret **Confidence** High



Value has a high entropy, may be a secret **Confidence** Medium

Problem 7. Hard-coded secret assignment, **Confidence:** High

Source code evidence:

File: tmp/static-analysis-test-code/src/main/java/com/github/adedayo/test/SecretsInCode.java

```
pwd = "postgres"
```

Found at: Line 7, Char 11 ⇒ Line 7, Char 27. **Found by:** SecretAssignment.

Analysis



Variable name suggests it is a secret **Confidence** High



Value contains or appears to be a common credential **Confidence** High

Problem 8. Hard-coded secret assignment, **Confidence:** High

Source code evidence:

File: tmp/static-analysis-test-code/src/main/java/com/github/adedayo/test/SecretsInCode.java

```
highCryptoEntropy = "HbjZ!+[c]Y5!kNzB+-p^A6bCt(zNtf=V"
```

Found at: Line 9, Char 11 ⇒ Line 9, Char 65. **Found by:** SecretAssignment.

Analysis



Variable name suggests it is a secret **Confidence** High



Value has a high entropy, may be a secret **Confidence** Medium

Problem 9. Hard-coded secret assignment, **Confidence:** High

Source code evidence:

File: tmp/static-analysis-test-code/src/main/java/com/github/adedayo/test/SecretsInCode.java

```
secret = "SKSLKSLKMSKMMK`\"MSLKXLsssa2d7h20387hd8cb2b$'^@*(@bcebw8bc8b28ebcb2ssssbe2b"
```

Found at: Line 15, Char 11 ⇒ Line 15, Char 97. **Found by:** SecretAssignment.

Analysis



Variable name suggests it is a secret **Confidence** High



Value looks suspiciously like a secret **Confidence** Medium

Problem 10. Hard-coded secret assignment, **Confidence:** High

Source code evidence:

File: tmp/static-analysis-test-code/src/main/java/com/github/adedayo/test/SecretsInCode.java

```
user_passphrase = "This is a secret passphrase. No one will find out"
```

Found at: Line 29, Char 15 ⇒ Line 29, Char 84. **Found by:** SecretAssignment.

Analysis



Variable name suggests it is a secret **Confidence** High



Hard-coded secret **Confidence** High

Problem 11. Warning! You may be sharing confidential (SSH private key) data with your code, **Confidence:** Medium

Source code evidence:

File: tmp/static-analysis-test-code/src/resources/id_rsa

```
<nil>
```

Found at: Line 0, Char 0 ⇒ Line 0, Char 0. **Found by:** ConfidentialFiles.

Analysis



Warning! You may be sharing confidential (SSH private key) data with your code
Confidence Medium

Problem 12. Warning! You may be sharing confidential (Certificate file) data with your code,
Confidence: Medium

Source code evidence:

File: tmp/static-analysis-test-code/src/resources/root_certificate.cer

```
<nil>
```

Found at: Line 0, Char 0 ⇒ Line 0, Char 0. **Found by:** ConfidentialFiles.

Analysis



Warning! You may be sharing confidential (Certificate file) data with your code
Confidence Medium

Problem 13. Warning! You may be sharing confidential (SSH private key) data with your code,
Confidence: Medium

Source code evidence:

File: tmp/static-analysis-test-code/src/resources/id_dsa

```
<nil>
```

Found at: Line 0, Char 0 ⇒ Line 0, Char 0. **Found by:** ConfidentialFiles.

Analysis



Warning! You may be sharing confidential (SSH private key) data with your code
Confidence Medium

Problem 14. Warning! You may be sharing confidential (Certificate file) data with your code,

Confidence: Medium

Source code evidence:

File: tmp/static-analysis-test-code/src/resources/server1.pfx

<nil>

Found at: Line 0, Char 0 ⇒ Line 0, Char 0. **Found by:** ConfidentialFiles.

Analysis



Warning! You may be sharing confidential (Certificate file) data with your code
Confidence Medium

Problem 15. Hard-coded secret assignment, **Confidence:** Medium

Source code evidence:

File: tmp/static-analysis-test-code/src/main/java/com/github/adedayo/test/SQLInjection.java

```
secret=" + queried);
    System.out.println(query);
    query = executeMyQuery2(new SQLInjectionExtended());
    System.out.println(query);
    return result;
}

public String executeMyQuery(String q) throws SQLException {
    int y = 4 + (new Random()).nextInt();
    System.out.println(y);
    Connection conn = DriverManager.getConnection("

```

Found at: Line 30, Char 77 ⇒ Line 40, Char 55. **Found by:** SecretAssignment.

Analysis



Variable name suggests it is a secret **Confidence** High



Value does not appear to be a secret **Confidence** High

Problem 16. Warning! You may be sharing confidential (Medlin Payroll Software statement layout or LloydsTSB bank statement data) data with your code, **Confidence:** Medium

Source code evidence:

File: tmp/static-analysis-test-code/src/resources/account.stm

<nil>

Found at: Line 0, Char 0 ⇒ Line 0, Char 0. **Found by:** ConfidentialFiles.

Analysis



Warning! You may be sharing confidential (Medlin Payroll Software statement layout or LloydsTSB bank statement data) data with your code **Confidence Medium**