****

# Practices for Secure Software Report

Table of Contents

[Document Revision History 3](#_Toc102040754)

[Client 3](#_Toc102040755)

[Instructions 3](#_Toc102040756)

[Developer 4](#_Toc102040757)

[1. Algorithm Cipher 4](#_Toc102040758)

[2. Certificate Generation 4](#_Toc102040759)

[3. Deploy Cipher 4](#_Toc102040760)

[4. Secure Communications 4](#_Toc102040761)

[5. Secondary Testing 4](#_Toc102040762)

[6. Functional Testing 4](#_Toc102040763)

[7. Summary 4](#_Toc102040764)

[8. Industry Standard Best Practices 4](#_Toc102040765)

## Document Revision History

| **Version** | **Date** | **Author** | **Comments** |
| --- | --- | --- | --- |
| **1.0** | **[Date]** | **[Your Name]** |  |

## Client



## Instructions

Submit this completed practices for secure software report. Replace the bracketed text with the relevant information. You must document your process for writing secure communications and refactoring code that complies with software security testing protocols.

* Respond to the steps outlined below and include your findings.
* Respond using your own words. You may also choose to include images or supporting materials. If you include them, make certain to insert them in all the relevant locations in the document.
* Refer to the Project Two Guidelines and Rubric for more detailed instructions about each section of the template.

## Developer

Jordon Burris

## Algorithm Cipher

I would go with the SHA algorithm cipher. The SHA algorithm uses password hashes and verification for file uploading and downloading websites.

## Certificate Generation

Insert a screenshot below of the CER file.

A screenshot of a computer

Description automatically generated

## Deploy Cipher

Insert a screenshot below of the checksum verification.

A screenshot of a computer

Description automatically generated

## Secure Communications

Insert a screenshot below of the web browser that shows a secure webpage.

A screenshot of a computer

Description automatically generated

## Secondary Testing

Insert screenshots below of the refactored code executed without errors and the dependency-check report.

A screenshot of a computer

Description automatically generated

## Functional Testing

Insert a screenshot below of the refactored code executed without errors.

A screenshot of a computer program

Description automatically generated

## Summary

For the refactored code, I just turned the bytes to hex values and saved the value to a string then printed the string out.

## Industry Standard Best Practices

Staying in line with best standards will allow you to have better code that is more secure and can give the customer a peace of mind. You don’t want to write code that is not within best standards or practices that could potentially allow vulnerabilities.