

Project: Tools for Enforcing Secure Code

Overview

This homework will allow you to demonstrate your understanding of the purpose and application of automated tools for secure code implementation.

Assignment Details

Conduct a survey using Internet or other sources of commercially available or open source automated tools for enforcing secure code development and choose one for analysis. Summarize its strengths and weaknesses. Be critical of the available tools. Select a tool that provides for a free demo version to download.

Either use source code from another course, obtain a sample of code from the Internet, or develop code to use as the source for the tool. The amount of code should be on the order of 15-30 source statements. A larger sample is acceptable. Describe the results of applying the tool to the code.

Your report should provide an objective assessment of commercially available or open source tools. Your report should include a summary of your analysis, and factors used to compare the tools. Your report should be well-organized and provide references for all resources used.

Deliverable

You should create a word or PDF document with your report on the evaluation of a tool to enforce secure code. The document should be well-written and include references for all sources you used support your work. Be sure to include your name, date and course number on the document in the title page. Page numbers should be included on each page of the document.

Grading Rubric

Attribute	Meets	Does not meet
Secure code tools survey	40 points Conducts a survey of commercially available or open source automated tools for enforcing secure code development. Summarizes each of the tools strengths and weaknesses. Selects a tool that provides for a free demo version to download.	0 points Does not conduct a survey of commercially available or open source automated tools for enforcing secure code development. Does not summarize each of the tools strengths and weaknesses. Does not selects a tool that provides for a free demo version to download.
Analyze code using tool	40 points Obtains or create source code for analysis. Uses at least 15-30 source statements for the analysis. Describes the results of applying the tool to the code.	0 points Does not obtain or create source code for analysis. Does not use at least 15-30 source statements for the analysis. Does not describe the results of applying the tool to the code.
Documentation	20 points Document contains minimal spelling and grammar errors. Document includes page numbers. References included using APA style. Title page includes Name, date and course number.	0 points Document contains multiple spelling and grammar errors. Document does not include page numbers. References were not included. Title page missing or did not include name, date and course number.