

Fortify Audit Workbench

Developer Workbook

ManagementPlatformWeb



Table of Contents

Executive Summary
Project Description
Issue Breakdown by Fortify Categories
Results Outline
Description of Key Terminology
About Fortify Solutions



Executive Summary

This workbook is intended to provide all necessary details and information for a developer to understand and remediate the different issues discovered during the ManagementPlatformWeb project audit. The information contained in this workbook is targeted at project managers and developers.

This section provides an overview of the issues uncovered during analysis.

ManagementPlatformWe **Issues by Priority Project Name: Project Version:** 8 0 Results Present SCA: **Critical** High Results Not Present WebInspect: **Impact** Results Not Present **WebInspect Agent:** Results Not Present Other: Low Medium

Top Ten Critical Categories

Likelihood

This project does not contain any critical issues



Project Description

This section provides an overview of the Fortify scan engines used for this project, as well as the project meta-information.



Issue Breakdown by Fortify Categories

The following table depicts a summary of all issues grouped vertically by Fortify Category. For each category, the total number of issues is shown by Fortify Priority Order, including information about the number of audited issues.

Category	Fortify Priority (audited/total)				Total
	Critical	High	Medium	Low	Issues
Dynamic Code Evaluation: Code Injection	0	0/8	0	0	0/8



Results Outline

Dynamic Code Evaluation: Code Injection (8 issues)

Abstract

Interpreting user-controlled instructions at run-time can allow attackers to execute malicious code.

Explanation

Many modern programming languages allow dynamic interpretation of source instructions. This capability allows programmers to perform dynamic instructions based on input received from the user. Code injection vulnerabilities occur when the programmer incorrectly assumes that instructions supplied directly from the user will perform only innocent operations, such as performing simple calculations on active user objects or otherwise modifying the user's state. However, without proper validation, a user might specify operations the programmer does not intend. **Example:** In this classic code injection example, the application implements a basic calculator that allows the user to specify commands for execution.

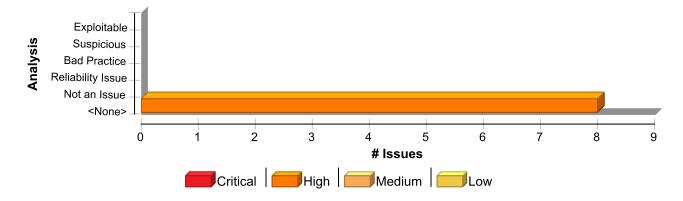
```
userOp = form.operation.value;
calcResult = eval(userOp);
```

The program behaves correctly when the operation parameter is a benign value, such as "8 + 7 * 2", in which case the calcResult variable is assigned a value of 22. However, if an attacker specifies languages operations that are both valid and malicious, those operations would be executed with the full privilege of the parent process. Such attacks are even more dangerous when the underlying language provides access to system resources or allows execution of system commands. In the case of JavaScript, the attacker can utilize this vulnerability to perform a cross-site scripting attack.

Recommendation

Avoid dynamic code interpretation whenever possible. If your program's functionality requires code to be interpreted dynamically, the likelihood of attack can be minimized by constraining the code your program will execute dynamically as much as possible, limiting it to an application- and context-specific subset of the base programming language. If dynamic code execution is required, unvalidated user input should never be directly executed and interpreted by the application. Instead, a level of indirection should be introduced: create a list of legitimate operations and data objects that users are allowed to specify, and only allow users to select from the list. With this approach, input provided by users is never executed directly.

Issue Summary





Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Dynamic Code Evaluation: Code Injection	8	0	0	8
Total	8	0	0	8

Dynamic Code Evaluation: Code Injection

High

Package: 00Lexi.01SVN.CountInsurance.trunk.

01.Develop.ManagementPlatformWeb.CountNet.Insurance.ManagementPlatformWeb.Scripts

00Lexi/01SVN/CountInsurance/trunk/01.Develop/ManagementPlatformWeb/CountNet.Insurance.ManagementPlatformWeb/Scripts/ai.0.22.9-build00167.js, line 2809 (Dynamic Code Evaluation: Code Injection)

High

Issue Details

Kingdom: Input Validation and Representation

Scan Engine: SCA (Data Flow)

Source Details

Source: Read window.location

From: trackPageView

File: 00Lexi/01SVN/CountInsurance/trunk/01.Develop/ManagementPlatformWeb/CountNet.I

nsurance.ManagementPlatformWeb/Scripts/ai.0.22.9-build00167.js:2786

```
2783  name = window.document && window.document.title || "";
2784 }
2785  if (typeof url !== "string") {
2786  url = window.location && window.location.href || "";
2787 }
2788  var pageViewSent = false;
2789  var customDuration = 0;
```

Sink Details

Sink: setInterval()

Enclosing Method: trackPageView()

File: 00Lexi/01SVN/CountInsurance/trunk/01.Develop/ManagementPlatformWeb/CountNet.Insurance.ManagementPlatformWeb/Scripts/ai.0.22.9-build00167.js:2809

```
2806
ApplicationInsights._InternalLogging.throwInternalNonUserActionable(ApplicationInsights.LoggingSnew
ApplicationInsights._InternalLogMessage(ApplicationInsights._InternalMessageId.NONUSRACT_Navigat
"trackPageView: navigation timing API used for calculation of page duration is not supported
in this browser. This page view will be collected without duration and timing info."));
2807 return;
2808 }
2809 var handle = setInterval(function () {
2810 try {
2811 if (Telemetry.PageViewPerformance.isPerformanceTimingDataReady()) {
2812 clearInterval(handle);
```



High

Package: 00Lexi.01SVN.CountInsurance.trunk.

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Taint Flags: VALIDATED_OPEN_REDIRECT, WEB, XSS

```
2806
ApplicationInsights._InternalLogging.throwInternalNonUserActionable(ApplicationInsights.LoggingSnew
ApplicationInsights._InternalLogMessage(ApplicationInsights._InternalMessageId.NoNUSRACT_Navigat
"trackPageView: navigation timing API used for calculation of page duration is not supported
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Issue Details

Kingdom: Input Validation and Representation



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High

Scan Engine: SCA (Data Flow)

Source Details

Source: Read window.location

From: trackPageView

File: 00Lexi/01SVN/CountInsurance/trunk/01.Develop/ManagementPlatformWeb/CountNet.I

nsurance.ManagementPlatformWeb/Scripts/ai.0.22.9-build00167.min.js:1

```
1 [Too long 86777 chars line truncated to 3500 ones]var
   __extends,AI,Microsoft;(function(n){var t;(function(n){var r,t,i,u;
        (function(n){n[n.CRITICAL=0]="CRITICAL";n[n.WARNING=1]="WARNING"})
        (n.LoggingSeverity|| (n.LoggingSeverity={{}}));r=n.LoggingSeverity,function(n)
        {n[n.NONUSRACT_BrowserDoesNotSupportLocalStorage=0]="NONUSRACT_BrowserDoesNotSupportLocalStorage=0]="NONUSRACT_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_BrowserDoesNotSupportLocalStorage=0]="nonusract_B
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Taint Flags: VALIDATED OPEN REDIRECT, WEB, XSS

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1 [Too long 86777 chars line truncated to 3500 ones]var __extends,AI,Microsoft;(function(n)
{var t;(function(n) {var r,t,i,u;(function(n)
{n[n.CRITICAL=0]="CRITICAL";n[n.WARNING=1]="WARNING"}) (n.LoggingSeverity||
(n.LoggingSeverity={}));r=n.LoggingSeverity,function(n)
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2
3 undefined
4 undefined
5 undefined
6 undefined
7 undefined
```

00Lexi/01SVN/CountInsurance/trunk/01.Develop/ManagementPlatformWeb/CountNet.Insurance.ManagementPlatformWeb/Scripts/ai.0.22.9-build00167.min.is. line 1 (Dvnamic Code Evaluation: Code Injection)

High

Issue Details



High

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01.Develop.ManagementPlatformWeb.CountNet.Insurance.ManagementPlatformWeb.Scripts

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Kingdom: Input Validation and Representation

Scan Engine: SCA (Data Flow)

Source Details

Source: Read window.location

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3 undefined
4 undefined
5 undefined
6 undefined
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Package: 00Lexi.01SVN.CountInsurance.trunk.

01.Develop.ManagementPlatformWeb.packages.Microsoft.ApplicationInsights.JavaScript.0.22.9-build00167.content.scripts

00Lexi/01SVN/CountInsurance/trunk/01.Develop/ManagementPlatformWeb/packages/Microsoft.ApplicationInsights.JavaScript.0.22.9-build00167/content/scripts/ai.0.22.9-build00167.js, line 2809 (Dynamic Code Evaluation: Code Injection)

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Source Details

Source: Read window.location

From: trackPageView

File: 00Lexi/01SVN/CountInsurance/trunk/01.Develop/ManagementPlatformWeb/packages/Microsoft.ApplicationInsights.JavaScript.0.22.9-build00167/content/scripts/ai.0.22.9-build0

0167.js:2786

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2783  name = window.document && window.document.title || "";
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1 [Too long 86777 chars line truncated to 3500 ones]var
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2
3 undefined
4 undefined
5 undefined
6 undefined
7 undefined
```



Description of Key Terminology

Likelihood and Impact

Likelihood

Likelihood is the probability that a vulnerability will be accurately identified and successfully exploited.

Impact

Impact is the potential damage an attacker could do to assets by successfully exploiting a vulnerability. This damage can be in the form of, but not limited to, financial loss, compliance violation, loss of brand reputation, and negative publicity.

Fortify Priority Order

Critical

Critical-priority issues have high impact and high likelihood. Critical-priority issues are easy to detect and exploit and result in large asset damage. These issues represent the highest security risk to the application. As such, they should be remediated immediately.

SQL Injection is an example of a critical issue.

High

High-priority issues have high impact and low likelihood. High-priority issues are often difficult to detect and exploit, but can result in large asset damage. These issues represent a high security risk to the application. High-priority issues should be remediated in the next scheduled patch release.

Password Management: Hardcoded Password is an example of a high issue.

Medium

Medium-priority issues have low impact and high likelihood. Medium-priority issues are easy to detect and exploit, but typically result in small asset damage. These issues represent a moderate security risk to the application. Medium-priority issues should be remediated in the next scheduled product update.

Path Manipulation is an example of a medium issue.

Low

Low-priority issues have low impact and low likelihood. Low-priority issues can be difficult to detect and exploit and typically result in small asset damage. These issues represent a minor security risk to the application. Low-priority issues should be remediated as time allows.

Dead Code is an example of a low issue.



About Fortify Solutions

Fortify is the leader in end-to-end application security solutions with the flexibility of testing on-premise and on-demand to cover the entire software development lifecycle. Learn more at software.microfocus.com/en-us/solutions/application-security.

