

# Falconi® Sports Agency

# Risk Management Framework Overview

Proactive Assessment, Strategic Mitigation, and Operational Resilience

**Presented by: Risk Management Team** 

In collaboration with: Cyber Essentials and Incident Response Teams





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# Risk Register & Web Reconnaissance

Identifying and Understanding Organizational Risks Through Frameworks and Reconnaissance





- Centralized log of risks with ID's
- > Prioritizes threats for focused action
- Tracks mitigation for transparency and compliance
- Provides early warning for emerging risks

Risk	Risk Description	Likelihood	Impact	Mitigation Actions
Unsecure Admin Directory	Use of admin directories and interfaces that contain sensitive unencrypted information that can be found and accessed by an attacker	Medium	High	-Require authentication to access admin areas -Regularly perform scans to find exposed endpoints -Encrypt sensitive information
Forgotten Subdomains	Older or discontinued web applications hosted on forgotten subdomains may contain unpatched vulnerabilities or sensitive information. These neglected applications increase the attack surface and can be exploited to compromise systems or access confidential data.	Medium	High	-Maintain an updated list of all accessible subdomains -Remove discontinued applications and services from servers -Monitor access logs and unusual activity on legacy subdomains
Misconfigured Network Infrastructure	Insecure or misconfigured network components, such as open ports, weak firewall rules, outdated router firmware, or use of unencrypted protocols. May provide attackers with unauthorized access to internal systems and data.	Medium	High	-Regularly scan for open ports  -Implement firewalls to restrict network traffic for unauthorized IP addressed.  -Close and block unnecessary and unused ports

### **Recon Findings Summary**





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- Details publicly discoverable assets and potential security exposures
- Surfaces hidden risks that attackers can exploit (open ports, forgotten subdomains, leaked credential)
- ReconSpider for crawling,
   Gobuster/dnsenum for subdomain enumeration, FTP brute-forcing
- Linked each discovery to its risk ID

## Recon Findings (API Key)

FALCONI SPORTS AGENCY

- ➤ Potential Exposure: API key leaked in public config and hidden admin path (R-6)
- Impact: Enables authentication bypass and backend takeover
- Mitigation: Remove coded keys, lock down endpoints, rotate credentials

```
File Edit View Search Tools Documents Help

1 Open   Save   Save  Undo  
1 {
2 "emails": [
3 "1337testing@falconi.com"
4 ],
```



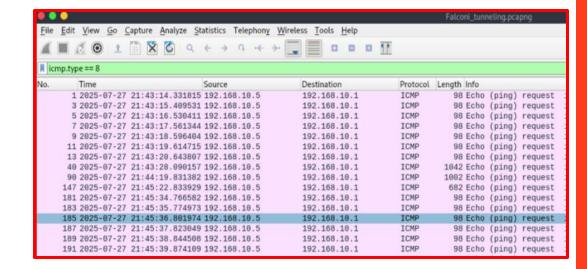
# Network Analysis & OSINT

Identifying and Mitigating Risk through Traffic Inspection and Open-Source Intelligence

## **Network Threat Analysis**



- Understanding Threats Through Real-World Traffic Analysis
- Identified three key threats:
  - ARP spoofing
  - ICMP tunneling
  - Cross-site scripting
- Focused on understanding how each threat could impact Falconi's systems



### **Findings and Impact**



- Duplicate IPs, large packets, and suspicious traffic uncovered
- Indicated interception, data theft and malicious browser activity
- Risked operational disruption and exposure of sensitive player data

```
Data (48000 bytes)
Data: 56476870637942706379426849484e6c593356795a5342725a586b364945746c6
[Length: 48000]

0030 51 31 4e 6a 63 34 4f 51 6f 3d 56 47 68 70 63 79
0040 42 70 63 79 42 68 49 48 4e 6c 59 33 56 79 5a 53
0050 42 72 5a 58 6b 36 49 45 74 6c 65 54 45 79 4d 7a
0060 51 31 4e 6a 63 34 4f 51 6f 3d 56 47 68 70 63 79
0070 42 70 63 79 42 68 49 48 4e 6c 59 33 56 79 5a 53
0080 42 72 5a 58 6b 36 49 45 74 6c 65 54 45 79 4d 7a
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0000 42 70 63 79 42 68 49 48 4e 6c 59 33 56 79 5a 53
0000 42 70 63 79 42 68 49 48
```

```
ParrotTerminal

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[us-trial-dedi-1]-[10.10.14.3]-[jesus8a7@htb-ip1bqzwfbo]-[~]

[*]$ echo "RmFsY29uaSBTZWN1cml0eSBUb2tlbjogU0VDLVRPSy0yMDI1MDcy0C1BbHBoYQ==" | base64 -d

Falconi Security Token: SEC-TOK-20250728-Alpha [us-trial-dedi-1]-[10.10.14.3]-[jesus8a7@htb-ip1bqzwfbo]-[~]
```

### **OSINT Risk Exposure**



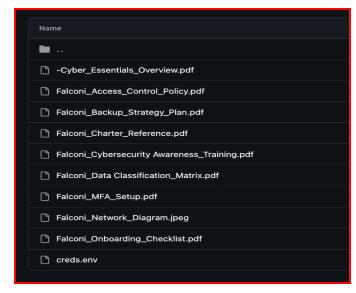
Publicly available information revealed potential risks across Falconi's digital footprint

### **People & Presence**



Public posts and employee interactions reveal names, roles, and relationships that attackers could use for targeting

#### **Internal Data Leaks**



Screen capture of public Falconi Github repository containing internal strategy documents and credentials

#### **Cloud Infrastructure**

JSON response revealing a publicly accessible Amazon S3 URL hosting user photo metadata that if misconfigured, could expose sensitive information.



# **Vulnerability Scanning & Analysis**

Strengthening Technical Skills for Risk Identification and Investigation

## **Vulnerability Scan Report**



- Summarized the results of an assessment conducted on Solutions<sup>3</sup>'s external digital assets
- Scanned public-facing services and subdomains to identify potential security weaknesses.
- Checked for known vulnerabilities across web infrastructure that could be exploited by attackers.



Figure 2: Nessus Scan Findings



Figure 3: Security Scorecard findings

# **Vulnerability: Missing Content Security Policy**



### **Vulnerability:**

- CSP's are added to HTTP headers to tell browsers which sources of content are safe
- Site exposed to unauthorized content and code execution

#### **Risks:**

- Cross Site Injection Attacks
- Sensitive user data can be stolen, altered, or misused.
- Monetary and reputational damage

#### **Recommendations:**

- Deploy CSP via HTTP headers
- Whitelist only trusted sources
- Monitor and update sites regularly



### **Next Steps**



### **Remediation Actions**

Based on our assessment, the following three remediation actions should be prioritized to address the most impactful vulnerabilities and significantly improve Solutions3's overall security posture:

- 1.Disable TLS 1.0 and 1.1. Configure systems to use TLS 1.2 or 1.3 exclusively.
- 2. Deploy a CSP header to restrict content sources, starting in report-only mode to test for conflicts before enforcement.
- 3. Enable HSTS to require HTTPS for all site access and subdomains

#### **Conclusions**

- Several easily preventable, low severity security vulnerabilities present
- No high severity vulnerabilities found
- Highlights Solutions<sup>3</sup>'s strong cybersecurity posture

# Recapitulation and Acknowledgments



### ✓ Risk Register & Web Recon

- Risk Register
- Recon Findings Summary

### ✓ Network Analysis & OSINT

- Network Traffic Analysis
- Risk Exposure Summary

### ✓ Vulnerability Scanning & Analysis

Vulnerability Scan & Analysis Report

# Thanks to the following teams for their contributions:

- Cyber Essentials
- Incident Response

### **Special thanks to our partners at:**

Solutions<sup>3</sup> LLC 🥪

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