



# EXTERNAL ATTACK SURFACE MANAGEMENT (EASM) REPORT

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Example Real Estate GmbH

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**Conducted Date:** April 4, 2025

# Project Background

ForeNova’s security team was commissioned by Example Real Estate GmbH to perform a comprehensive External Attack Surface Management (EASM) assessment on April 4, 2025. The scope included:

- Internet exposure analysis
- External attack surface discovery

**Client Name:** XX Real Estate GmbH

**Domains Monitored:** \*(Redacted for confidentiality; see Appendix)\*

**IP Segments:** 111.\*\*\*.\*\*\*.65/28, 8.\*\*\*.\*\*\*.225, 124.\*\*\*.\*\*\*.96/27, 124.\*\*\*.\*\*\*.237/30

## Executive Summary

A total of 48 subdomain assets, 353 webpages, and 47 digital assets were identified. Critical vulnerabilities such as Remote Code Execution (RCE) and SQL Injection were present, posing a high risk to the organization.

Key issues include:

- Sensitive document exposure
- Impersonation websites
- Backend login portals exposed publicly
- SQL injection in admin interfaces
- Insecure configurations on public IPs

### Internet Exposure Overview

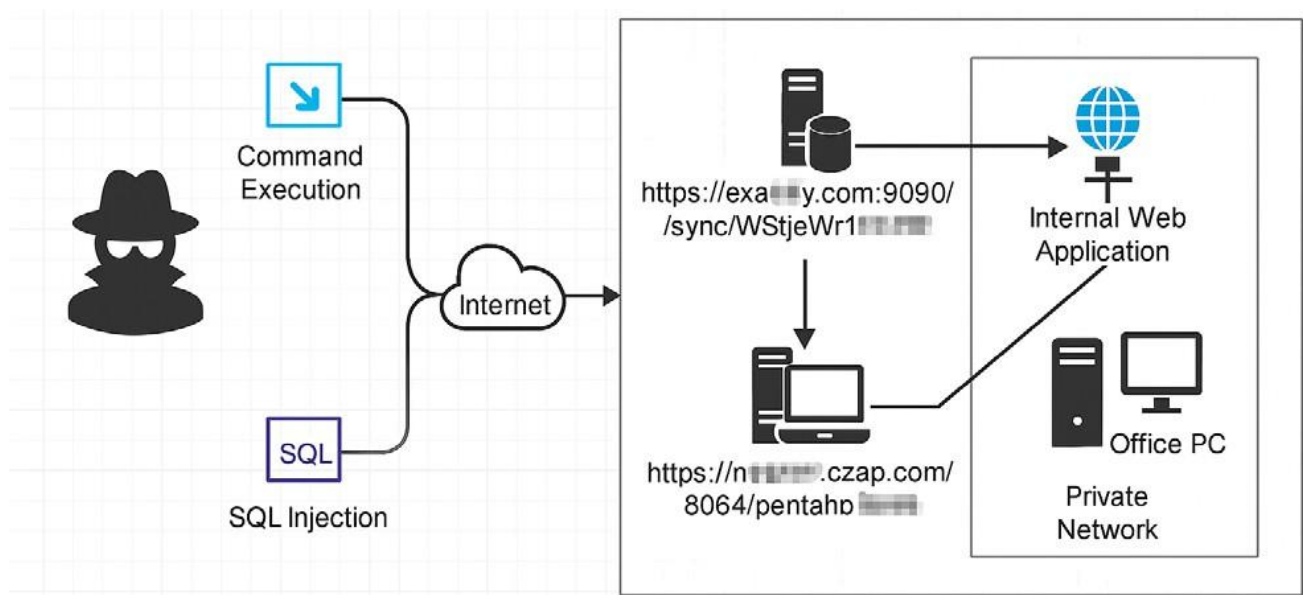
Asset Type	Count
Root Domain Names	2
Subdomain Assets	48
IP Addresses	54
Open Ports	633
Web Services	353
Non-Web Assets	280
Cloud Assets	22
SSL Certificates	13

## External Risks Summary

Risk Type	High	Medium	Low
Vulnerabilities	11	18	1
Weak Passwords	0	0	0
Essential Components	37	-	-
Port/Service Exposures	8	-	-

# Attack Vectors

## Attack Route Map



## Attack Details

Attackers may exploit vulnerabilities like SQL injection or command execution in public-facing systems to:

- Gain unauthorized access
- Escalate privileges
- Move laterally within internal networks

### Lateral Movement Methods

- Credential harvesting from compromised servers
- Exploiting known vulnerabilities (e.g., MS17-010)
- Brute-force attacks on internal login systems

# Domain Names



Example domains (full list redacted):

- xfw.m\*\*\*y.com
- tjs\*\*\*m.m\*\*\*y.com
- sjz\*\*\*nchant.m\*\*\*y.com
- mail.m\*\*\*y.com
- vpn.m\*\*\*y.com

# IP Addresses



Sample Range:

- 111.\*\*\*.\*\*\*.65 – 111.\*\*\*.\*\*\*.77

# High-Risk Exposed Assets

Host	Port	Service
sjbi.my.com	3389	RDP
111.*..130	6379	Redis
111.*..152	5985	WinRM
8.*..225	3389	RDP

# Open Ports and Services

Host	Port	URL	Technology Stack
www.m***y.com	1187	http://www.m***y.com:1187	PHP, jQuery, nginx, Tongda OA
mail.m***y.com	80	http://mail.m***y.com	Apache httpd
124.*..109	8088	http://124.***.**.109:8088	Panmicro e-Bridge, nginx

# Detailed Vulnerability Example

## SQL Injection (Critical)

### URL

https://sj\*\*\*portal.m\*\*\*y.com:9070/system/adminUsers/getAdminUsersList.do?state=1

Risk: Allows attackers to inject malicious SQL queries to bypass authentication or access sensitive data.

### Proof-of-Concept Snippet

POST /system/adminUsers/getAdminUsersList.do?state=1 HTTP/1.1

Injection in: sortName=(case when 1=1 then name else id end)

### Recommendations

- Enforce strict input validation
- Implement parameterized queries
- Harden database access privileges
- Deploy WAFs with SQLi detection

# High-Level Recommendations

## Fix Critical Vulnerabilities

Patch systems affected by SQL Injection and Remote Code Execution (RCE).

- Sanitize all user input (use whitelisting and input validation).
- Use parameterized SQL queries in all applications.
- Patch vulnerable systems and update frameworks.
- Deploy a Web Application Firewall (WAF) with SQLi/RCE protection.

## Restrict Public Access to Sensitive Services

Lock down services like RDP, WinRM, Redis, and admin portals.

- Use firewall rules to limit access to specific IPs.
- Enforce VPN access for remote management.
- Disable unused services or move them behind authentication gateways.

## Remove or Secure Exposed Documents

Identify and remove documents exposed online.

- Use tools like Google Dorking or DLP scanners to find exposed documents.
- Review public folders or misconfigured cloud buckets.
- Set proper file permissions and encrypt sensitive files.

## Enable Multi-Factor Authentication (MFA)

Add MFA to all external-facing portals and user accounts.

- Use app-based MFA (like Google Authenticator or Microsoft Authenticator).
- Enforce MFA for email, VPN, admin dashboards, and cloud accounts.
- Educate users about phishing-resistant MFA.

## Deploy a Web Application Firewall (WAF)

Use a WAF to protect web applications from common attacks.

- Choose a WAF (e.g., Cloudflare, AWS WAF, or Imperva).
- Set rules to block malicious traffic.
- Monitor logs and alerts to track blocked threats.

## Monitor and Clean Up Exposed Assets

Continuously discover and secure exposed domains, subdomains, and services.

- Use EASM tools (e.g., Shodan, Censys, or Attack Surface Management platforms).
- Audit DNS records and IP ranges monthly.
- Remove or disable stale subdomains and assets.

## Harden Public-Facing Services

Secure services like webmail, VPNs, and portals.

- Disable default accounts or change default passwords.
- Turn off directory listings and unnecessary features.
- Use secure protocols (HTTPS, SFTP, etc.)