

# Information Gathering Report on Tesla

## Executive Summary:

This report presents a comprehensive analysis of Tesla's online presence, relationships, and potential security considerations. By utilizing passive information gathering techniques with tools such as WHOIS, social media platforms, Maltego, and Shodan, we aim to provide insights into Tesla's domain registration details, public sentiment, infrastructure, and associated entities. This investigation highlights key findings, recommends actions, and discusses challenges and lessons learned throughout the process.

## 1. Introduction:

### 1.1 Project Background:

Tesla is a leading innovator in the automotive and energy sectors, known for its electric vehicles, energy storage solutions, and renewable energy products. Founded by Elon Musk, the company has a significant online presence that reflects its technological advancements and market influence. This project aims to analyze Tesla's online footprint to understand its relationships, public perception, and potential security vulnerabilities.

### 1.2 Scope and Objectives:

The scope of this information gathering initiative includes:

- Analyzing domain registration details
- Assessing social media sentiment
- Mapping relationships between entities associated with Tesla
- Identifying potential security vulnerabilities in Tesla's internet-facing infrastructure

The primary objective is to create a detailed profile of Tesla that highlights key insights and provides actionable recommendations.

## 2. Methodology:

### 2.1 Data Sources:

The following tools and platforms were used for information gathering:

- **WHOIS:** To gather domain registration details
- **Social Media:** To assess public sentiment and trends
- **Maltego:** For mapping relationships between entities
- **Shodan:** To identify internet-facing infrastructure and potential security issues

### 2.2 Techniques Employed:

- **WHOIS:** Analysis of domain registration details, ownership, and relevant dates.
- **Social Media Monitoring:** Extraction of public sentiment, customer interactions, and trends from platforms like Twitter, LinkedIn, and Facebook.
- **Maltego:** Visualization of relationships and connections between Tesla and associated entities.
- **Shodan:** Examination of Tesla's publicly accessible infrastructure to identify security-related insights.

### 2.3 Ethical Considerations:

All information gathering techniques adhered to ethical guidelines, ensuring compliance with privacy laws and regulations. Only publicly available information was utilized, respecting individual and corporate privacy rights.

## 3. Findings:

### 3.1 WHOIS Analysis:

Key insights from WHOIS data revealed that Tesla's primary domain, tesla.com, is registered under the name of Tesla, Inc., with administrative contact details linked to the company's headquarters. The domain was initially registered in 2003, with the latest update in 2023, indicating active management.

### 3.2 Social Media Insights:

Social media analysis showed that Tesla enjoys a strong positive sentiment on platforms like Twitter and LinkedIn, driven by its innovative products and CEO Elon Musk's active engagement. However, occasional negative spikes were observed related to production delays and quality issues.

### 3.3 Maltego Relationship Mapping:

Using Maltego, we visualized relationships between Tesla and various stakeholders, including suppliers, partners, and subsidiaries. This mapping highlighted key connections that are vital to Tesla's operations and supply chain.

### 3.4 Shodan Infrastructure Analysis:

Shodan analysis identified several internet-facing devices and services associated with Tesla, including web servers and control systems. Some outdated software versions were noted, which could pose potential security risks if not addressed.

## 4. Integration and Analysis:

### 4.1 Data Integration:

Data from WHOIS, social media, Maltego, and Shodan was integrated to create a comprehensive profile of Tesla. Cross-referencing information from different sources ensured a holistic view of Tesla's online presence and infrastructure.

#### Domain and WHOIS Analysis

- **Domain:** tesla.com
- **Registrar:** MarkMonitor Inc.
- **Registered On:** 1992-11-04
- **Expires On:** 2024-11-03
- **Updated On:** 2022-10-02
- **Status:**
  - clientDeleteProhibited
  - clientTransferProhibited
  - clientUpdateProhibited
  - serverDeleteProhibited
  - serverTransferProhibited
  - serverUpdateProhibited

## **Common Cybersecurity Issues Identified:**

### **Domain Age and Renewal:**

- The domain was registered in 1992, indicating it has been in use for a long time. Older domains tend to be more trustworthy but can also be targets for domain squatting if not renewed promptly.
- The expiration date is in 2024, and it is essential to ensure timely renewal to avoid potential takeover risks.

### **Domain Status:**

- The prohibitive status codes (client and server update, transfer, and delete prohibited) indicate strong protection measures are in place, reducing the risk of unauthorized changes or transfers. However, vigilance is required to maintain these protections.

## **Name Servers**

- **Akamai Name Servers:**

- a1-12.akam.net
- a10-67.akam.net
- a12-64.akam.net
- a28-65.akam.net
- a7-66.akam.net
- a9-67.akam.net

- **UltraDNS Name Servers:**

- edns69.ultradns.biz
- edns69.ultradns.com
- edns69.ultradns.net
- edns69.ultradns.org

## **Common Cybersecurity Issues Identified:**

### **Use of Akamai and UltraDNS:**

- Leveraging Akamai and UltraDNS for DNS management indicates a robust infrastructure with DDoS protection and high availability. However, dependency on third-party services can introduce risks if those services are compromised.

## **SSL Certificate**

- **Issuer:** DigiCert Inc, DigiCert Global G2 TLS RSA SHA256 2020 CA1
- **Valid From:** 2024-04-10

- **Valid Until:** 2025-05-11
- **Subject:** \*.solarcity.com, solarcity.com

### **Common Cybersecurity Issues Identified:**

#### **SSL Certificate Validity:**

- The SSL certificate is valid and up-to-date, which is essential for secure communications. However, ensuring timely renewal before expiration in 2025 is critical to maintain secure connections.

#### **Certificate Scope:**

- The certificate covers \*.solarcity.com and solarcity.com, indicating the inclusion of subdomains. Ensuring all subdomains are correctly configured and secure is essential.

### **Open Ports**

- **Ports:**
  - 80 (HTTP)
  - 443 (HTTPS)

### **Common Cybersecurity Issues Identified:**

#### **HTTP Port (80):**

- The presence of port 80 indicates that HTTP is in use, which is not encrypted and can expose data to interception. Ensuring HTTP traffic is redirected to HTTPS is essential to secure communications.

#### **HTTPS Port (443):**

- HTTPS is in use, indicating secure communication channels. Regularly updating SSL/TLS protocols and ciphers to the latest standards is essential to maintain security.

By addressing these common cybersecurity issues, Tesla can enhance its online presence's security and reduce potential vulnerabilities.

## **4.2 Cross-Verification:**

Efforts to cross-verify information included checking domain details across multiple WHOIS databases and corroborating social media insights with third-party sentiment analysis tools. This approach helped address discrepancies and ensure data accuracy.

## 5. Recommendations:

- Regularly update and secure internet-facing infrastructure to mitigate potential security risks.
- Continue engaging positively on social media while addressing negative feedback promptly to maintain brand reputation.
- Leverage relationship mapping to strengthen strategic partnerships and supply chain resilience.

### Additional Considerations

#### Email Security:

- The WHOIS data includes email addresses for administrative and technical contacts. Implementing DNS protection/configurations is crucial to protect against email spoofing and phishing attacks.

#### Regular Security Audits:

- Regular security audits and monitoring are vital to identify and mitigate vulnerabilities promptly. This includes periodic review of DNS configurations, SSL certificate status, and open ports.

#### Public Exposure:

- Publicly exposed WHOIS data can be targeted for social engineering attacks. Utilizing privacy protection services to obfuscate contact details can reduce this risk.

## 6. Challenges and Lessons Learned:

Challenges included navigating the vast amount of data available online and ensuring accuracy amidst conflicting information. Lessons learned emphasized the importance of cross-verification and the value of integrating multiple data sources for a comprehensive analysis.

## 7. Conclusion:

The information gathering effort provided valuable insights into Tesla's online presence, relationships, and potential security considerations. By addressing the

identified risks and leveraging the strengths observed, Tesla can enhance its operational resilience and market reputation.