Threat Intelligence Dashboard Report

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Overview

This project downloads phishing URL data from PhishTank, analyzes it using Python libraries (requests, pandas, matplotlib), and visualizes the top phishing domains in a bar chart. It demonstrates basic threat intelligence gathering and data visualization skills to identify common phishing sources.

Tools Used

- Python 3.x
- Requests (for data download)
- Pandas (for data manipulation)
- Matplotlib (for charting)

Data Source

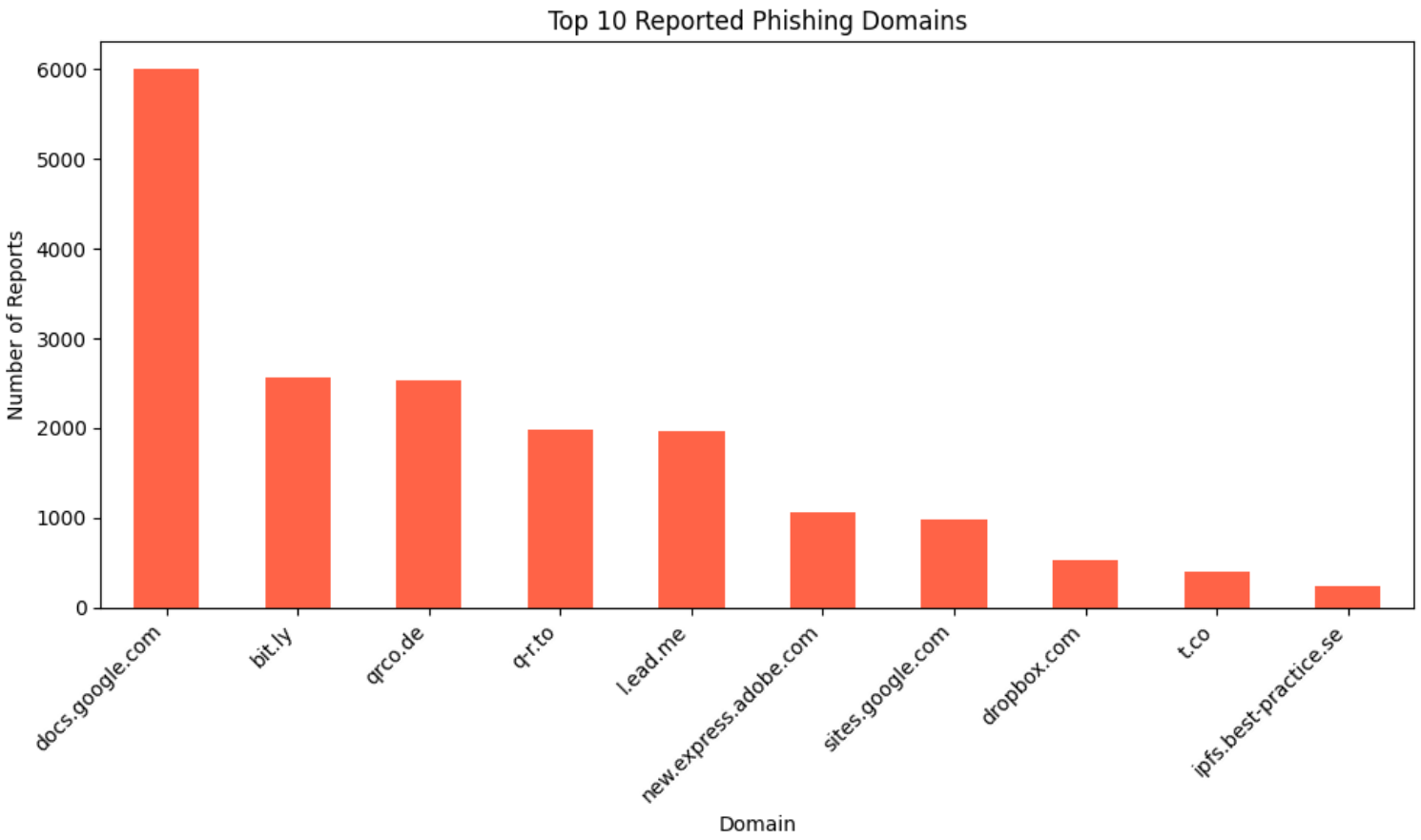
Phishing URL data was downloaded from PhishTank's publicly available CSV dataset containing verified active phishing URLs.

Analysis

- The CSV was parsed to extract domain names from URLs.
- The frequency of phishing reports per domain was counted.
- The top 10 domains with the highest number of phishing reports were identified.

Visualization

Below is the bar chart showing the top 10 reported phishing domains based on the PhishTank dataset analyzed:



Findings

The visualization highlights the most commonly reported phishing domains, helping security analysts focus on blocking or monitoring these domains.

Recommendations

- Monitor and block the identified high-risk phishing domains at network perimeters.
- Update phishing awareness training using real-world examples from the dataset.
- Schedule regular updates of phishing data and refresh the dashboard for ongoing threat monitoring.

Attachments

- Dashboard Python Script
- Phishing URL CSV Data
- Screenshot chart image: screenshots/top_phishing_domains_20250810_040524.png

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Skills Demonstrated

- Threat intelligence data collection
- Data analysis using pandas
- Data visualization with matplotlib

- Python automation scripting

Feel free to review the attached files and explore the code to customize the dashboard for deeper analysis.