Ethical Considerations for Creating a Port Scanner

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Purpose

This report outlines the ethical considerations involved in developing a port scanner in Python and reflects on whether those considerations were fully observed during testing.

Ethical Considerations

- **Authorization**: Scanning any network or system without explicit permission is considered unethical and may violate laws or terms of service.
- **Intent**: Security tools should only be used for educational or defensive purposes within authorized environments.
- **Impact**: Even simple scans can unintentionally disrupt services or violate usage policies, especially on high-profile targets like public websites.

Reflection on Compliance

While my intent was purely educational, I acknowledge that I did not fully comply with ethical standards during testing. Specifically:

- I performed a scan on `google.com` to test domain name resolution and port connectivity.
- This action was not authorized and may be considered improper usage under ethical and legal guidelines.

Lessons Learned

- Public-facing domains should **never** be scanned without permission, even for testing.
- All future testing will be done on systems I own or within sandboxed lab environments.
- Understanding and respecting boundaries is essential in cybersecurity practice.