Week 1: Introduction

1. Course presentation
2. Background: Internet infrastructure
3. Types of measurements
4. Measurement platforms
5. Sound measurement practices
6. **Ethical issues**
7. Conclusion

Avoid disruption

- Active probing can overload network/hosts
  - “Denial of Service” attack
- Good practices
  - Throttle probing
  - Spread load
  - Embed contact info in probes
  - Keep blacklists of networks/hosts

Respect privacy

- Passive measurements can get personal and sensitive info
- Good practices
  - Get user informed consent when possible
  - Comply with local data protection laws
  - Anonymize data when possible
    - ✓ Caveat: anonymization is not bullet-proof

Do no harm

- Measurement studies can harm
  - Individual/organization privacy, reputation, well-being
- Good practices
  - Identify potential harms/risks
  - Maximize benefits and minimize risks
  - Good example: Menlo report
    - ✓ Menlo report: https://goo.gl/I9qXUu
    - ✓ Companion report: http://goo.gl/z9uHwD