GENITor

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• A network for anonymous communication
• Many current users (~200M), most legitimate, some not
• Two objectives:
  – Anonymity
  – Usability -> Performance
• Research requires test-bed evaluation
  – Best experiments will involve real, “Opt-in” users
Tor as an Opt-In application in GENI

• Is it even legal?
• How do we protect the rest of the world?
  
  *but also...*

• How do we protect the users from GENI
  – Tor experimenters (i.e., me)
  – Other experimenters (may not even be malicious)
  – GENI infrastructure
Privacy Guarantees

• Federation
  – Distribute Tor across multiple sub-units
  – Interconnect GeniTor with real Tor

• Privacy vs. measurement
  – Put some restrictions on what measurements I can collect
    • And offer credible guarantees!
  – Provide restrictions on measurements of co-hosted experiments