CS558 Network Security

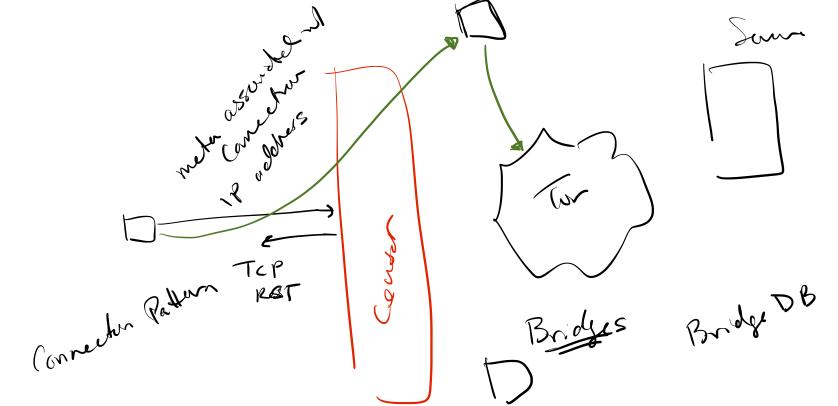
fully would

Lecture 20: Censorship Circumvention pt 2



Review: Internet Censorship

Tor gave Censorthy over the





Censorship Circumvention is Active Research

Active Pluggable Transport

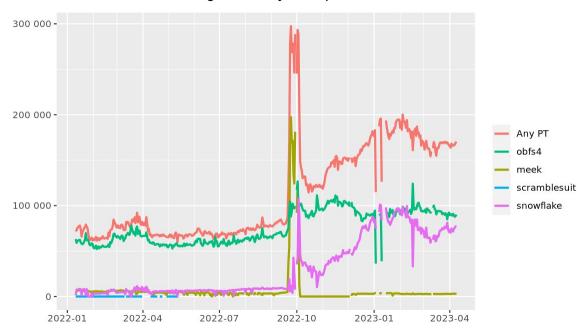
- Obfs4 -> Randomjatin
- Meek -> Doman fronty
- Format-Transforming Encryption
- ScrambleSuit
- Snowflake

Non-active Pluggable Transport





Bridge users by transport



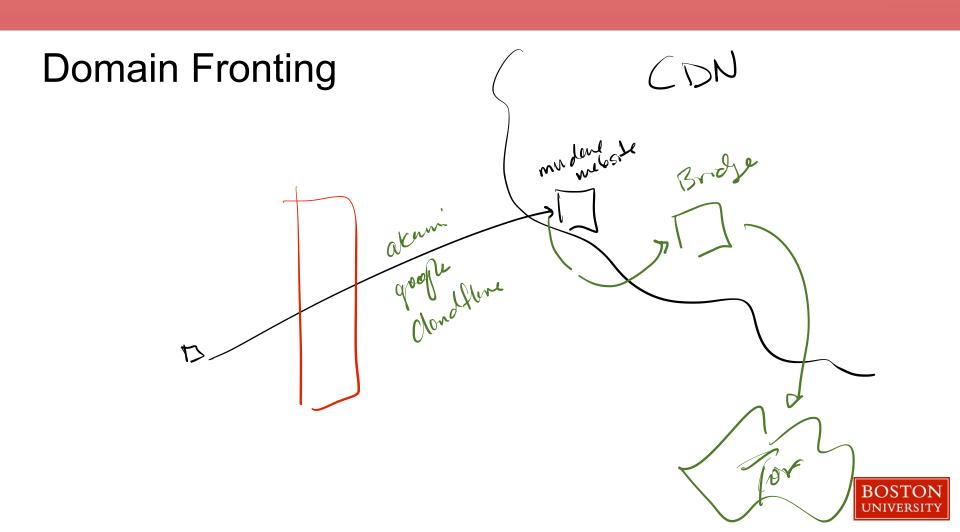
The Tor Project - https://metrics.torproject.org/

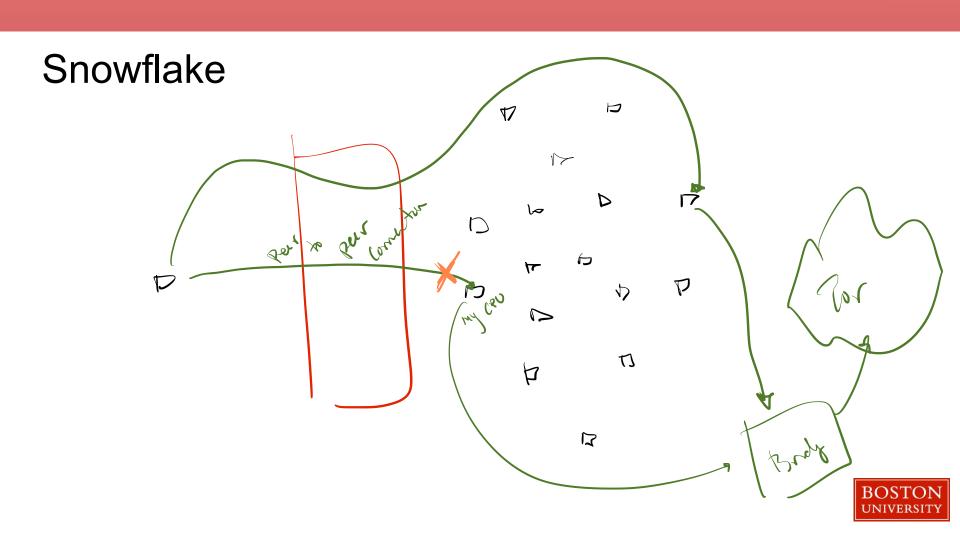


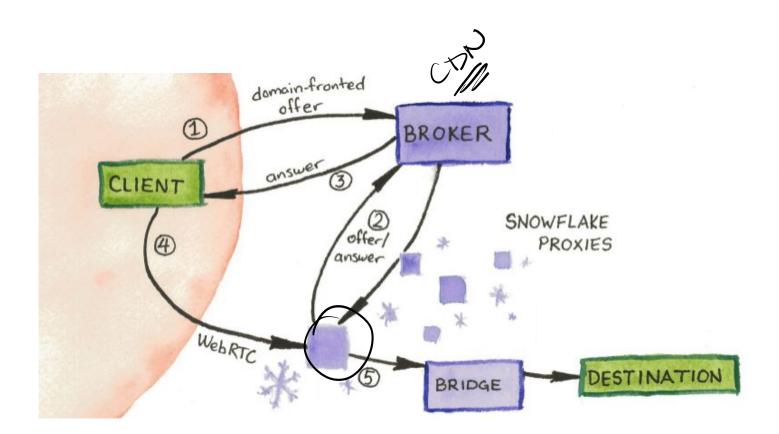
Pluggable Transport (Protocol Obfuscation)

Protocel looks Vardom random prots strandom pacet try vanden Jule Censur Shald " (an) open"

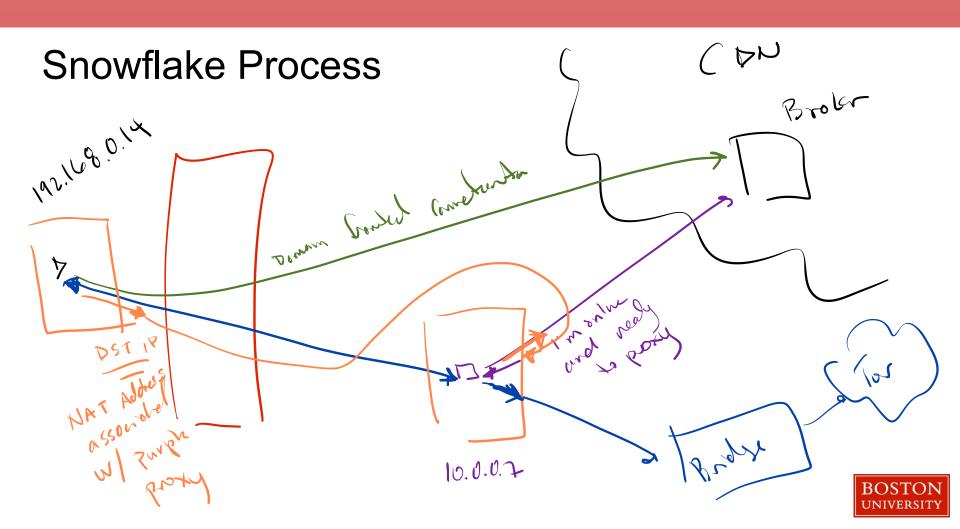


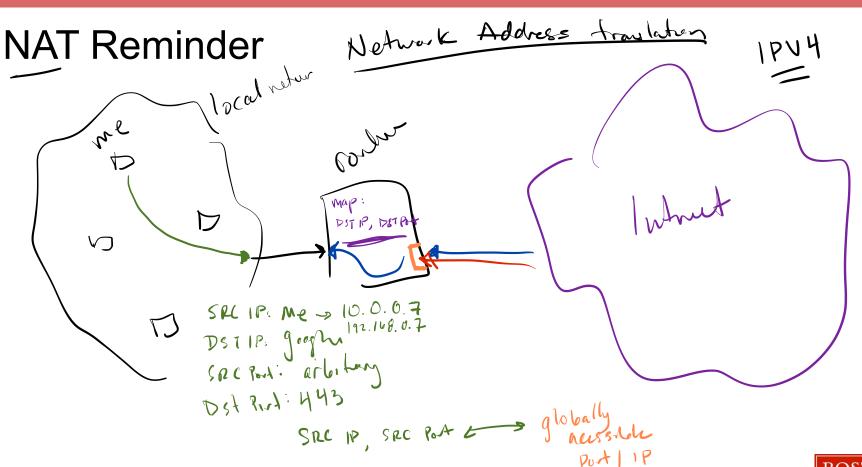














Big Picture: Steganography

Protued Observation

when me "hey lets protect"

obusines Enc (m)

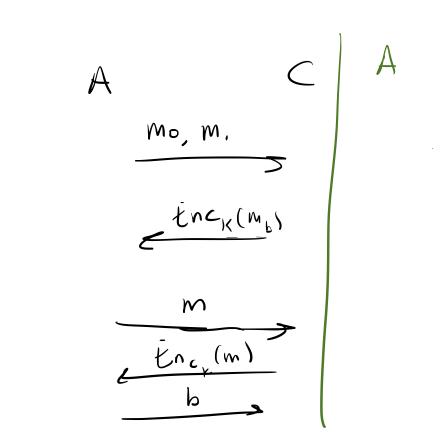
Decode ("hey hows your)

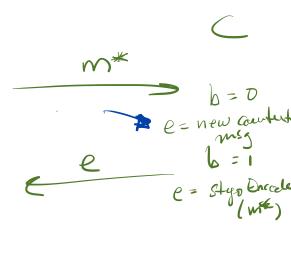
whey lots proclaim")

"hey hows you growna?"

BOSTON
UNIVERSITY

Formal-ish Sketch of Steganography Covertext clamed







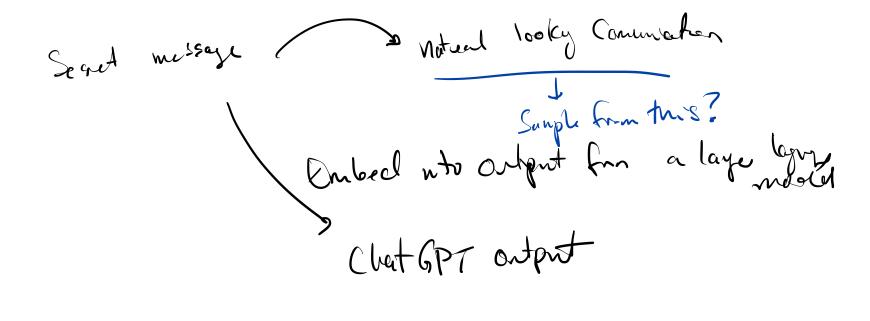
What do we know about achieving steganography?

You can knowle messages into any Conetyst dustribution, as long as the covertext Channel has Entraypy

2) Prootree JPEG Styo houndre Styo approules



AI/ML-powered Steganography





meteor fran space. com Sample for toker distitution Context Vice 30%4 15% "Hello Bob" 50%





