Border Security: Lessons from All Over*

*Inspired by Bill Cheswick's classic talk and
The New Border Wars by Klaus Dodds.
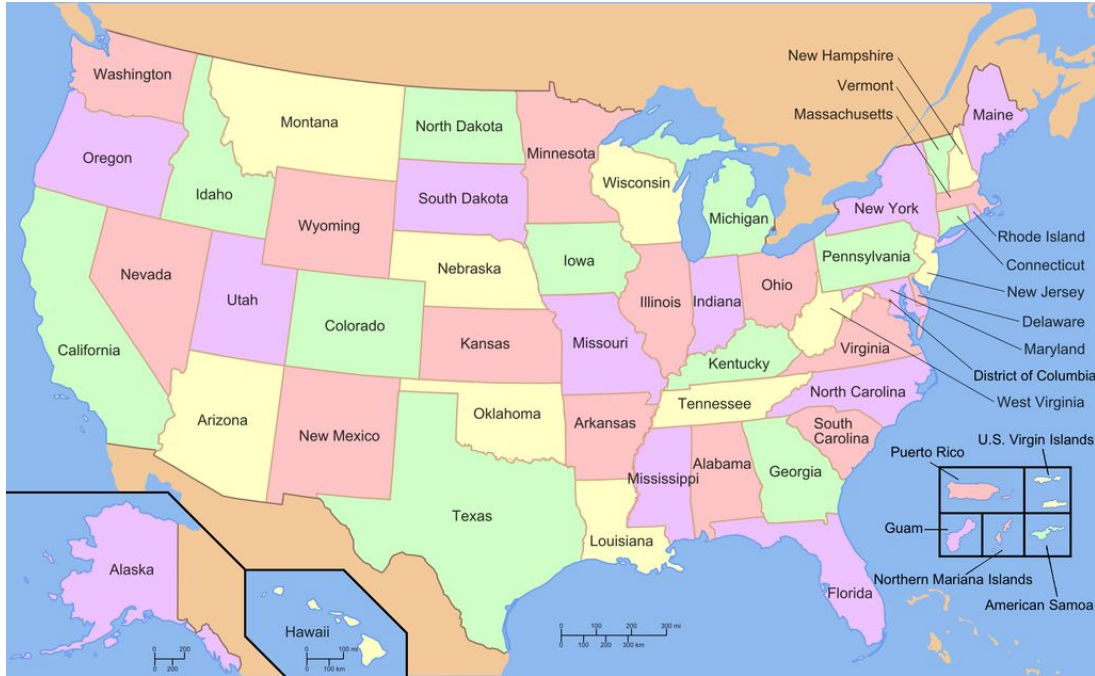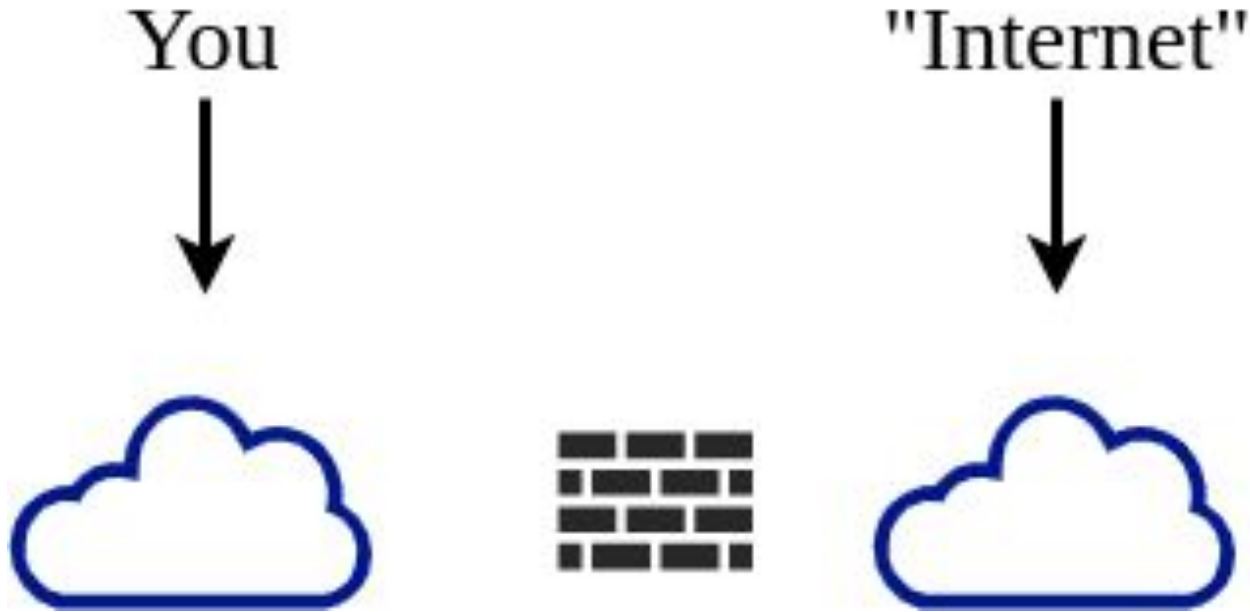
John Kristoff

Outline

- Introduction

- Walls, Admission Control, and Blockades

- Censorship

- Shutdowns, Fragmentation, and Techno-nationalism

- Border Pliancy

- Routing Around "Damage"

Introduction

What Border?

Network Border "Classic"

You   "Internet"
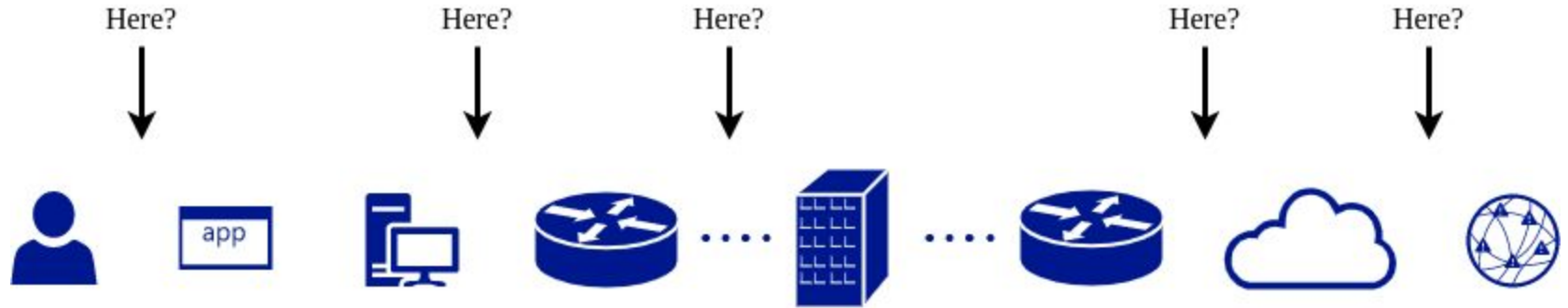
Will the Real Border Please Stand Up

Origins, Destinations, and Transit

- Communications "intent" determined where?

- Who (or what) understands intent?

- Ends vs. Middle

- Path(s) and State

- A border = function placement

Experiment

Ask any old R&E net or sec op:
"What was your opinion of the Packeteer?"

Walls, Admission Control, and Blockades

Walls

Admission Control

Blockades

The Internet Sanctions Project

Welcome to the Internet Sanctions Project

This is an open, Internet community governed, project which produces real-time BGP and RPZ data feeds of network resources names) associated with sanctioned entities. These data feeds facilitate Internet network operators in complying with governm international and human rights law.

TOOLBOX

Host of Internet Spam Groups Is C

By Brian Krebs
washingtonpost.com Staff Writer
Wednesday, November 12, 2008; 7:16 PM

The volume of junk e-mail sent worldwide
drastically today after a Web hosting firm
a major host of organizations allegedy eng
to security firms that monitor spam distrib

North American Network Operators Group

Date Prev | Date Next | Date Index | Thread Index | Author Index | Historical

YAY! Re: Atrivo/Intercage: NO Upstream depeer

m: Mark Foo

THIS WEBSITE HAS BEEN SEIZED

The FBI has seized this website for operating as a DDoS-for-hire service. This action has been taken in conjunction with Operation PowerOFF, a coordinated international law enforcement effort to dismantle criminal DDoS-for-hire services worldwide. DDoS attacks are illegal.

Law enforcement agencies have seized databases and other information relating to these services. Anyone operating or utilizing a DDoS service is subject to investigation, prosecution, and other law enforcement action.

For more information, please visit:
https://www.fbi.gov/contact-us/field-offices/anchorage/fbi-intensify-efforts-to-combat-illegal-ddos-attacks

xfinity Internet Mobile TV & Streaming Home Security Home Phone Build Your Plan Rewards Comcast Business

Support > Internet   Ask Xfinity

Blocked Internet Ports List

Find out which ports are blocked by Xfinity and Comcast services, and why.

Ports on the internet are like virtual passageways where data can travel. All information on the internet passes through ports to get to and from computers and servers. When a certain port is known to cause vulnerability to the security and privacy of your information, Xfinity blocks it to protect you

RELATED ARTICLES

Why is Port 25 for Email Submission Not Supported?

What is Comcast Doing About Spam?

How to Set Up Your Comcast Email Address with an Email Program

Censorship

Measurement (censoring)

- https://ooni.org

- https://censoredplanet.org/

The GFW is more (less) than a FW

- HTTP fetches with "bad text " in URLs

- Tor blocking

- "Western" content/service censorship

- 8.8.8.8 graffiti in TR

- Oh… and HTTP/TCP reflection/amplification! Oops

Shutdowns, Fragmentation, and Techno-Nationalism

Shutdowns

Egypt Leaves The Internet

Jim Cowie

NANOG51, Miami
1 February 2011

Fragmentation

- Hot topic, search for "Internet Fragmentation"

- https://splintering.net/

- https://www.cfr.org/report/confronting-reality-in-cyberspace

Techno-Nationalism

- Well-known concept

- We're beginning to see Internet versions all over

    - Various UN committee efforts

    - DNS4EU

- There seem to be rogue actors too

    - e.g., threats to standards community governance

Border Pliancy

Border Disputes

Border Changes

New Borders

Routing Around Damage

Thank You

John Kristoff

https://dataplane.org/jtk

infosec.exchange/@jtk