Final Year Dissertation

Comparing Internet Censorship in Ireland vs Israel

Dr. Stephen Farrell

`<p>` Chris Casey, 20334271

ccasey3@tcd.ie `</p>`

01 Internet Censorship Introduction

`<p>` The practice of restricting the publication or access of information online `</p>`

Research Motivation

User Perspective

- Awareness

- Digital Rights

- Corporate trends

- Governmental trust

Government Perspective

- Rising censorship

- New frontier

- Legislation

- Digital Diplomacy

The Internet Misconceptions

"The Internet is not a public sphere. It is a private sphere that tolerates public speech." ~ Clay Shirky

Operation

- Transparent

- Decentralised

- Meritocracy

Content

- Unmanipulated

- Permanent

- Unbiased

02 Internet Censorship Mechanisms

`<p>` How is internet censorship conducted? `</p>`

Internet Censorship Mechanisms

1. Application Layer (5)

DNS Filtering

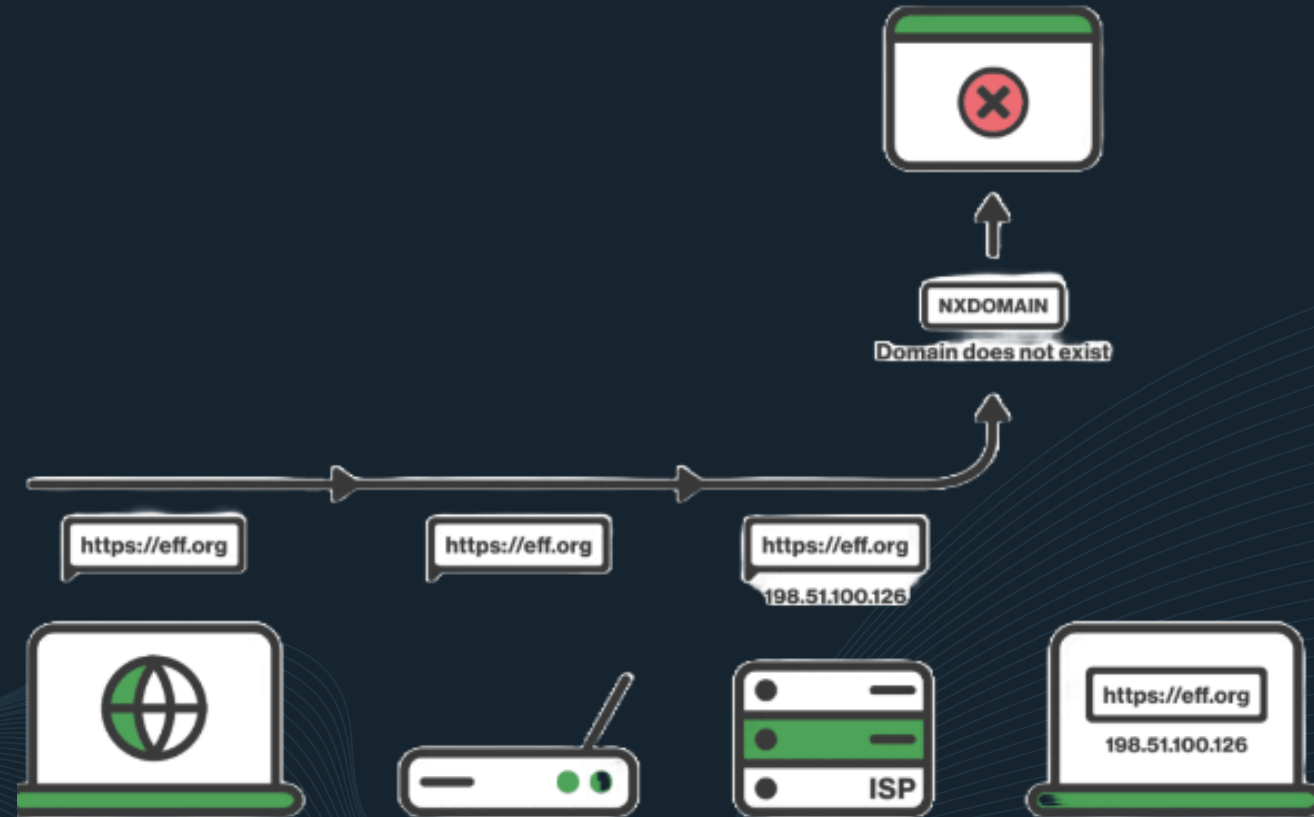Keyword Filtering

2. Network Layer (3)

IP Blocking

3. Non-Specific

Deep Packet Inspection

Points of Control

Internet censorship occurs at various levels of the OSI model

NXDOMAIN
Domain does not exist

https://eff.org

https://eff.org

https://eff.org
198.51.100.126

ISP

https://eff.org
198.51.100.126

03 Measuring Censorship
Methodology

`<p>` How the research is and will be conducted `</p>`

Measuring Censorship **Methodology**

```
<p> OONI Probe </p>

A free software project released under TOR
Uncovers censorship around the world


<p> Virtual Machine </p>

A virtual machine will be used to run OONI CLI
Provider: Interhost.co.il


<p> Data Analysis and Comparison </p>

Use ground truth to prove/ disprove notions about both locales
```

04 Results
Ireland vs Israel

`<p>` Discussing the contrast between the States' approach `</p>`

Results **Ireland vs Israel**

Ireland

- Reactive
- Illegality
- Non-political
- Judicial process
- Regulated by the EU

Israel

- Proactive
- National Security; military lead
- Political
- Targeted, (Al Jazeera)
- Arguably authoritarian, surveillance

05 Ongoing Research

`<p>` An outline of the work to come before April `</p>`

Ongoing **Research**

- Quantify censorship conducted by both governments

- Comparison of research to date vs ground truth

- Comparison of Ireland & Israel

- Contribute to the OONI probe:

  - Additional tests

  - Solve some GitHub issue

THANK YOU!

Do you have any questions?

Chris Casey
Ccasey3@tcd.ie
20334271