

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

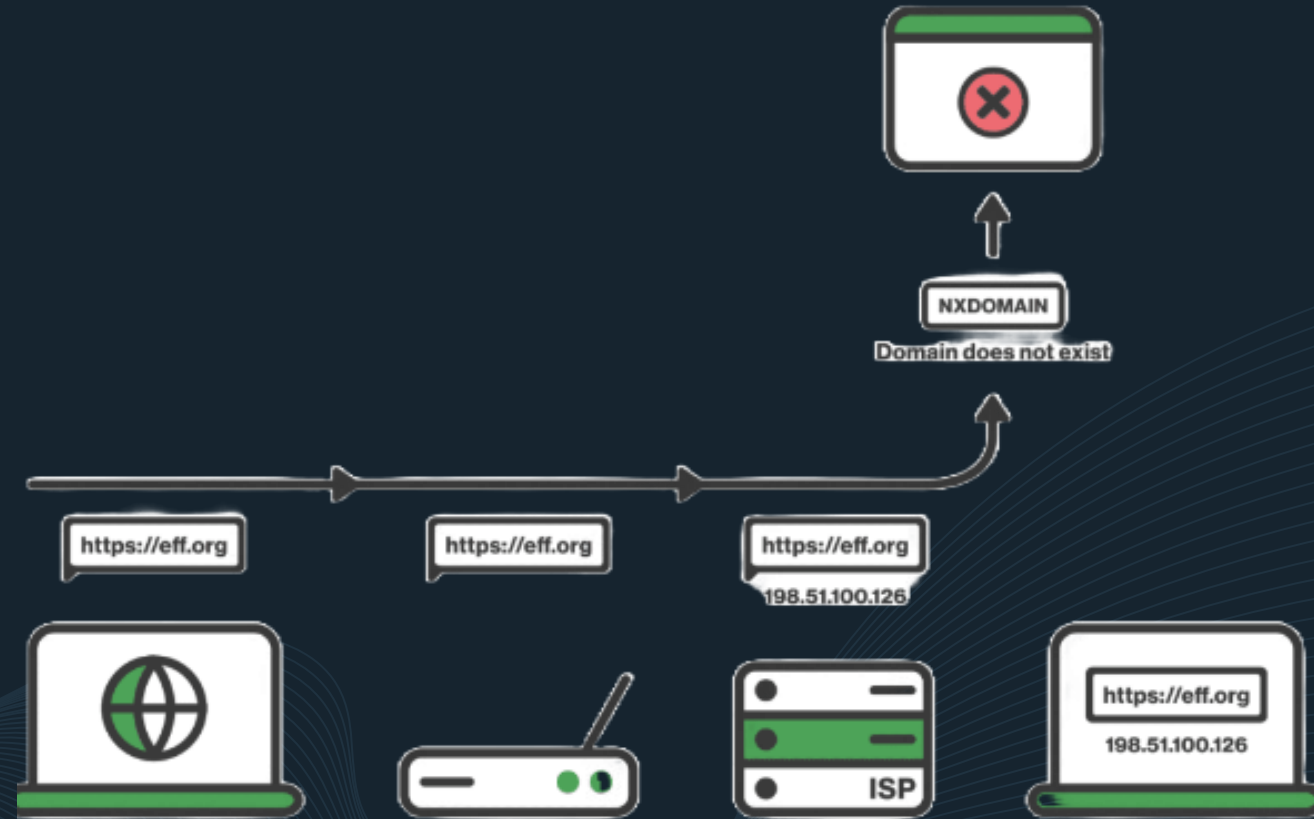


3. Non-Specific

Deep Packet Inspection



Points of Control



Internet censorship occurs at various levels of the OSI model



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



Challenges


- Sources in Hebrew
- Dated research
- Cross validation of OONI
- Access to academic papers

- Stretch goal
- Scope creep
- Discussing conflicts
- Being non-partisan



THANK YOU!

Do you have any questions?



Chris Casey
Ccasey3@tcd.ie
20334271