# Tackling DNS abuse in the Caribbean The DNS Observatory

Shernon Osepa
Consultant / Advisor CTU
shernon.osepa@ctu.int



#### **DNS** abuse definition

is composed of five/six\* broad categories of harmful activity insofar as they intersect with the DNS:

(ICANN Registrar / gTLDs Registries Stakeholder groups / Internet & Jurisdiction Policy Network)



# Categories of DNS abuses

#### **Technical:**

- ➤ Malware;
- **≻**Botnets;
- **≻**Phishing;
- **≻**Pharming;
- ➤Spam;
- ➤ Fast-flux hosting.



### Categories of DNS abuses - 2

#### Website content:

- ➤ Child abuse material;
- ➤ Controlled substances and Regulated goods (illegal drugs, stolen goods, illegal firearms, etc.);
- ➤ Violent extremist content;
- ➤ Hate speech;
- ➤ Intellectual property related.



## Some Newspapers' Headlines







Home News Business Olympics Sports Entertainment Lifestyle All Woman Obituaries Classifieds More

Jamaica suffered 43 million cyber attack attempts in 2023 — Fortinet



#### **BUSINESS**

# Caribbean faced 144 million cyberattack attempts in 6 months

**NEWSDAY REPORTER THURSDAY 9 FEBRUARY 2023** 

#### Trinidad's state telecoms company hit by cyberattack

# Costa Rica Declares State of Emergency Under Sustained Conti Cyberattacks

Conti's ransomware attack cripples Costa Rica's Treasury, sparking the US to offer a \$15M bounty on the group.

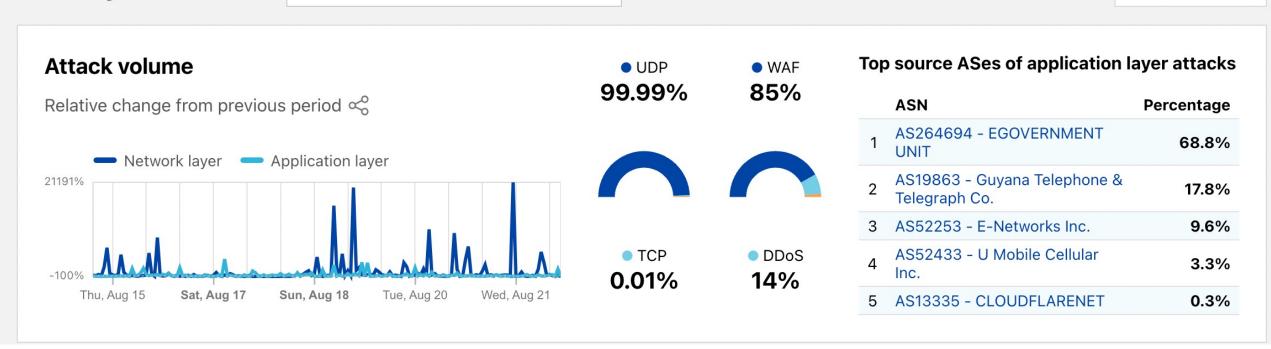


## Guyana is not immune

#### **Security & Attacks in**

Guyana X V

Last 7 days 🛗





### What can we do about it?

- Stakeholders
  - Governments
  - Law enforcement entities
  - Business community
  - Academia
  - Civil society
- Caribbean Telecommunications Union
  - A holistic approach (policy, capacity building, collaboration, enforcement).



## A Caribbean DNS Observatory

A tool that can help you track changes in the use of the DNS system following patterns and trends

- Government portals
- > ccTLDs



## Stakeholders

> ICANN's LACRALOs

- > CTU
  - Coordination



## Structure of the work and planning (2 phases)

- Define the goals
- Choose the data sources
- > Tools selection
- Tools configuration
- Analyze the data



# **Questions?**





#### References

- ICANN Registrar Stakeholder Group
- Cloudflare radar
  - https://radar.cloudflare.com/security-and-attacks/gy
- https://newsday.co.tt/2023/02/09/caribbean-faced-144-million-cyberattack-attempts-in-6-months/
- https://dl.acm.org/doi/10.1145/3355369.3355566
- https://www.domaintools.com/resources/blog/tracking-the-dnsstars-the-dns-observatory/



# Thank You!

## **Shernon Osepa**

Shernon.osepa@ctu.int

+599 9 520-9613

