

ยินดีต้อนรับสู่


CYBER SECURITY WORKSHOP




Focused

Bangkok
8-9 May 2019

Who are we?

- **Willem Toorop**
- Developer @  **NLNETLABS**
- Loves doing Hackathons
- Internet measurements with RIPE Atlas
- All-rounder (but does not skate the 10km)

Who are we?

- **Ralph Dolmans**
- Also a Developer & Researcher @  **NLNETLABS**
- In Program Committee of DNS-OARC
- Architect of internet.nl
- Advises Dutch Government on Open Standards (COE list)
- Also an all-rounder (and actually can skate the 10km)

Who are we?

- **Willem & Ralph** – Researching activities
- Root KSK roll effects, DNS Flagday effects, NTP vulnerabilities on DNS



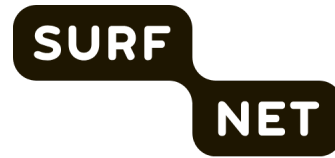
A First Look at QNAME Minimization in the Domain Name System

Wouter B. de Vries¹, Quirin Scheitle², Moritz Müller^{1,3}, Willem Toorop⁴,
Ralph Dolmans⁴, Roland van Rijswijk-Deij^{1,4}

¹University of Twente, ²TUM, ³SIDN Labs, ⁴NLnet Labs

What is/What does NLNETLABS

- Not-for-profit foundation – since 1999 – subsidies & donations



What is/What does NLNETLABS

- Mission:

To provide globally recognized innovations and expertise for those technologies that turn a network of networks into an Open Internet for All.

- Objective:

To develop Open Source software and Open Standards for the benefit of the Internet,

What is/What does NLNETLABS

- Objective:
 - To develop *Open Source Software* and *Open Standards* for the benefit of the Internet,



NSD



unbound



ROUTINATOR
Krill

- Idns
- Net::DNS
- Net::DNS::SEC

What is/What does NLNETLABS

- Objective:
 - To develop **Open Source Software** and **Open Standards** for the benefit of the Internet, and furthermore do **all that is directly or indirectly connected in the broadest sense**.

Research – Internet measurements – Student projects –
Participate in Program Committees – Hackathons –
Workgroup Chair – Governance – and...

... incidentally do Workshops 😊



Who are you?

- Experience? Day job?
 - Unix prompt: huh prompt?
 - make: make what, a pie everyday?
 - unbound: Sorry, I'm married.
 - zones and domains: stay out of my personal space
- Expectations?
 - Is there anything we should pay special attention to?

About the workshop

- Hand-on:
 - Interleave lectures and Do It Yourself
- Start basic DNS and basic DNS services
 - Resolver → Authoritative → Registering zones → Resilience → DNSSEC Validation → Signing → etc.
- Bit of improvisation on our side, and on yours

Lab environment

- Teams of two or three persons
- Each team has two cloud provided Linux (Ubuntu 19.04) machines (*access with ssh*)
- bangkok.lol domain for hands-on practice

Lab time!



Photo by [Alex Kondratiev](#) on [Unsplash](#)

- Hands on: <http://bangkok.lol/>
- 0. Make Teams & access to machines