Simple Scalable Privacy: Unleashing OpenWRT, Pi-hole, Unbound, & Bind9

- **Speaker**: Jonathan Haack
- **Room**: 340
- **Time**: Saturday, Oct 24th 14:30 – 15:20

- **Format**: Talk (50 minutes)
- **Difficulty**: Intermediate
- **Track**: Networking & Security
- **Additional Tags**: OpenWRT, Pi-hole, Unbound, Bind9, DNS, Privacy, FLOSS, Self-hosting
- * **Experience**: Math and CS educator with 20 years of experience; operator of Haack's Networking, a Free Software-driven business specializing in networking and security.

Description:

Tired of relying on Big Tech or clunky proprietary stacks? This session explores how to build self-hosted, scalable, and privacy-centered network infrastructure using mainstream FLOSS to achieve complete DNS sovereignty. On the LAN side, the talk covers deploying OpenWRT on GL.iNet hardware with virtualized Pi-hole instances and Unbound for fast, cached recursive DNS resolution and network-level ad blocking. On the WAN side, it details the secure hardening of Unbound for public use, the implementation of clustered Webmin for centralized management, and the use of Bind9 for authoritative DNS records. Attendees will receive a clear, actionable blueprint for a stack that scales from a simple home lab to dedicated servers and data center environments.

Target Audience:

- Home lab hobbyists
- Dedicated hosting professionals
- Data center colocation professionals

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