

Learning with the RIPE NCC

RIPE 88
Evelien Schilder - Sr. Learning Experience Designer

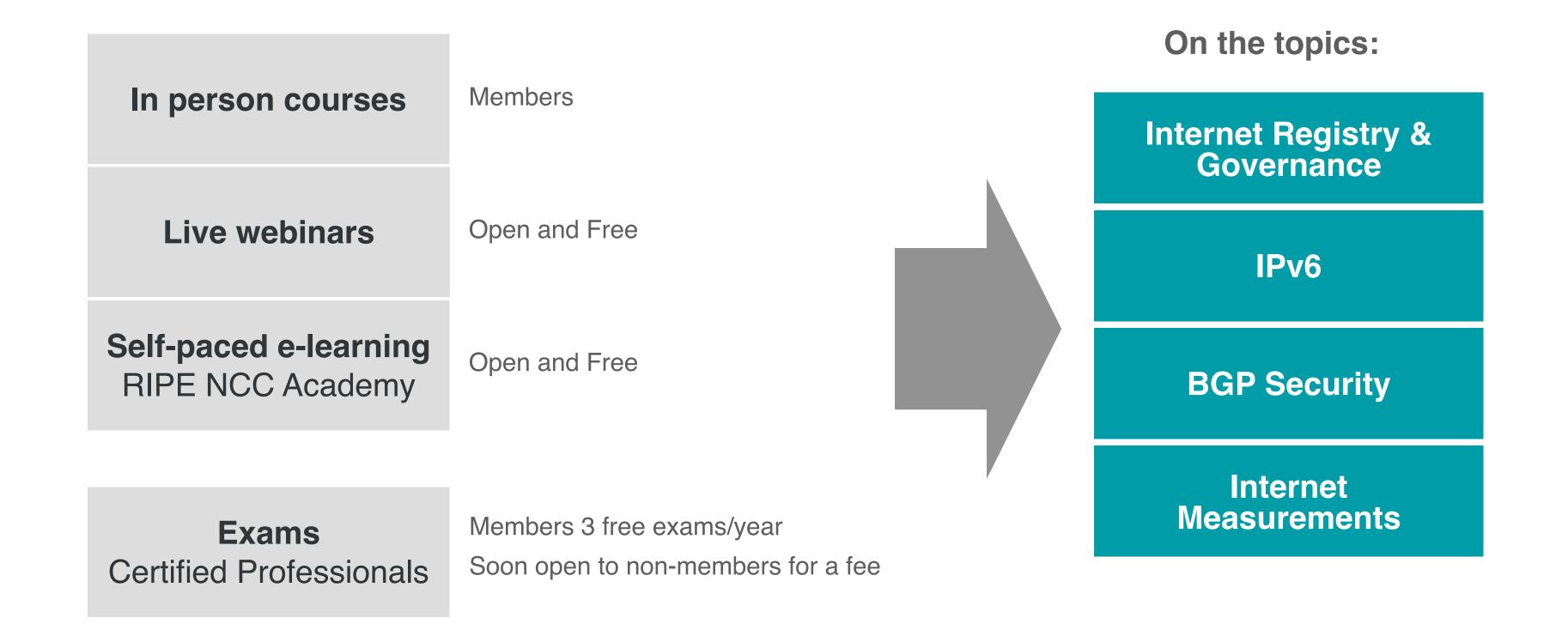
RIPE NCC Learning & Development

RIPE NCC Services

RIPE Community RIPE NCC Members Training & RIPE Labs IP/ASN Certification LIR Portal RIPEstat RPKI K-root DNS **General Meetings** RIPE Database RIPE Meetings & RIPE Atlas **Regional Meetings**

We Offer:





RIPE NCC's Training & Certification



- Instruct in best practices
- Provide practical knowledge
- Contribute to a more secure,
 stable, resilient and
 innovative Internet
- Help with career development

Making an impact

High Quality

Training & Certificat

Trusted and neutral source of information

- Relevant and up-to-date content tailored to learners' needs
- Involvement of subject matter experts in development
- Sound pedagogical methodologies
- Engaging, interactive and accessible learning experiences

Using open source tools and materials

and **standards**

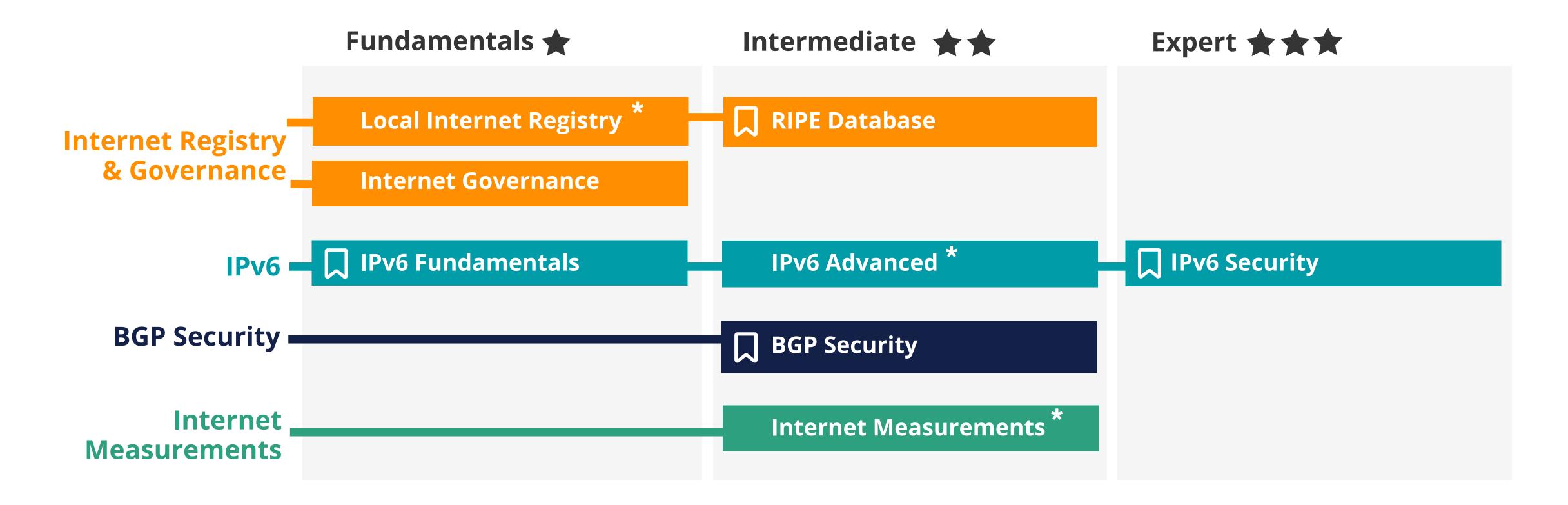
Information does not depend on

economic or political interests

• Focusing on **best current practises**

Training & Certification Portfolio - Learning Paths





^{*} We currently only offer webinars on these topics. E-learning courses on all of these topics are under development.

IPv6 Fundamentals Offerings Academia



IPv6 Fundamentals E-Learning Course - RIPE NCC Academy (☆ - 15 hours)

Unit 1. The future of the Internet. Why use IPv6?

- → 1.1. IPv4 Exhaustion
- → 1.2. Why We Need IPv6 Urgently
- → Activity: Timeline

Unit 2. IPv6 Address Architecture

- → 2.1. Address Notation
- → 2.2. Subnetting
- → Activity: Smart Home Part 1
- → 2.3. IPv6 Address Types and Scopes

Unit 3. IPv6 Protocols

- → 3.1. Basic IPv6 Header
- → Activity: Basic Headers
- → 3.2. Multicast in IPv6
- → 3.3. Deploying IPv6
- → Activity: Path MTU Discovery

Difficulty level:

Beginner ☆ - Intermediate ☆☆ - Advanced ☆☆☆

Note: Although this is considered a beginners' level course, the course does require prior knowledge on topics such as TCP/IP, binary/(hexa)decimal notation, CIDR, DHCP, NAT/CGN/LSN, ICMP, ARP, and DNS.

Unit 4. IPv6 Address Space

- → 4.1. How to Get IPv6 Addresses from the RIPE NCC
- → 4.2. Registering IPv6 Addresses in the RIPE Database
- → Activity: Smart Home Part 2
- → Activity: Inet6num Status in the RIPE Database

Unit 5. IPv6 Deployment Strategies

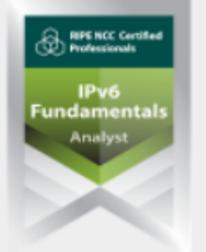
- → 5.1. Deployment Phases
- → Activity: Case Scenario
- → 5.2. Addressing Plans
- → Activity: IPv6 Addressing Plan
- → 5.3. Considerations for Network Services

Webinars

- Introduction to IPv6 (☆ 2 hours)
- → IPv6 Host Configuration (☆☆ 2 hours)
- → IPv6 Addressing Plan (☆☆ 2 hours)

Certified Professionals Exam

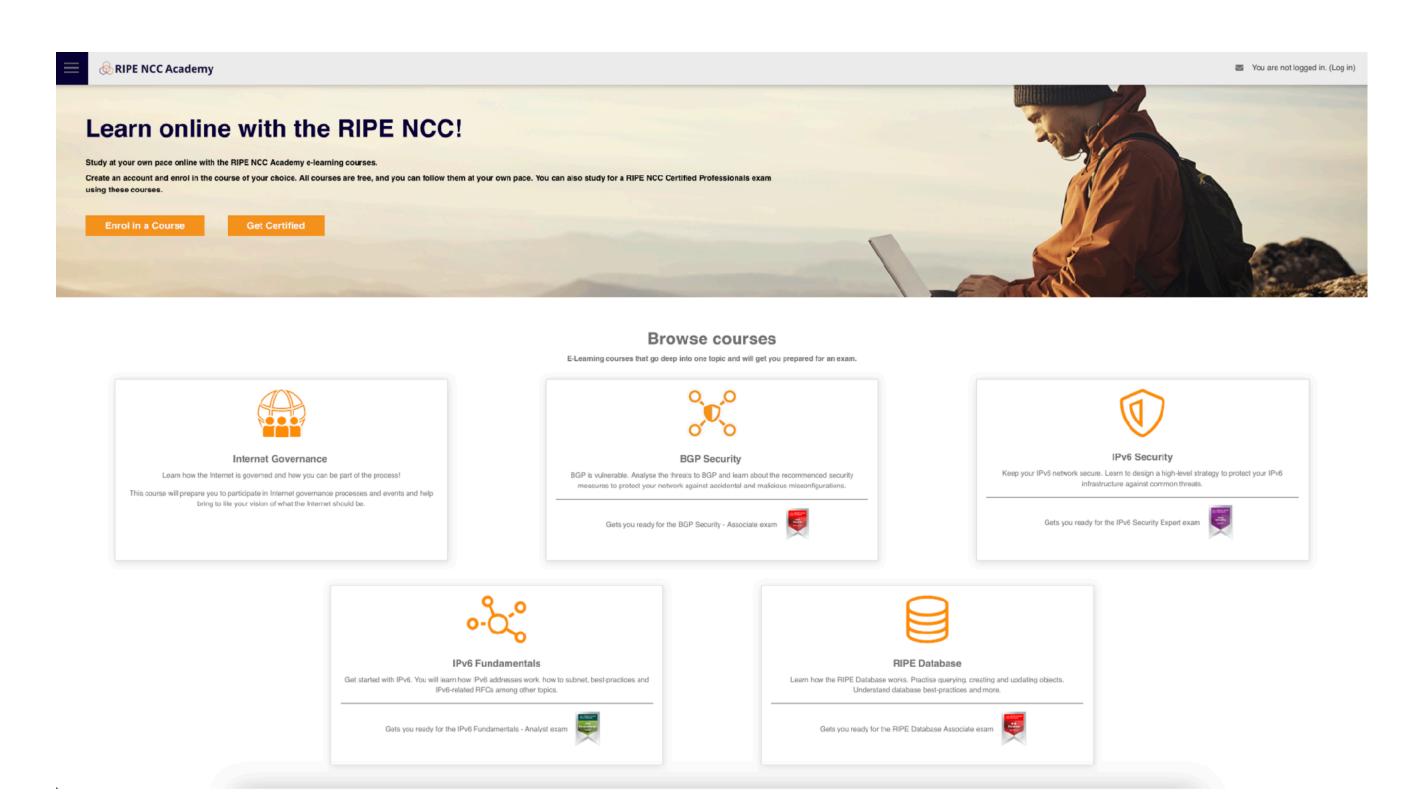
→ IPv6 Fundamentals - Analyst (☆ - 1 hour)





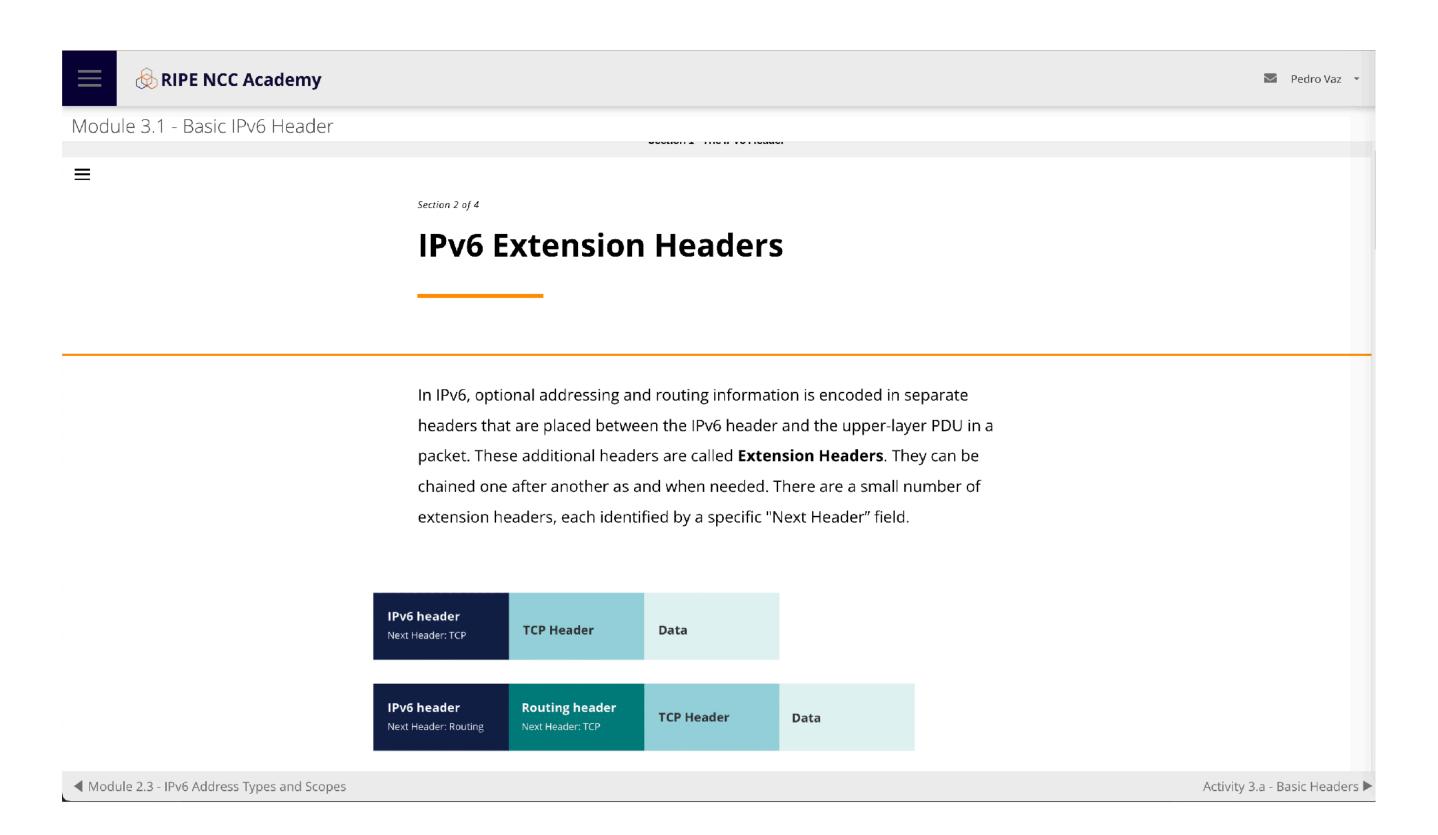


- Launched in 2014
- Free for everyone
- Over a 100 self-paced modules
- 20-30 minutes per module
- Interactive, mix of text, videos, questions, hands on (lab) activities



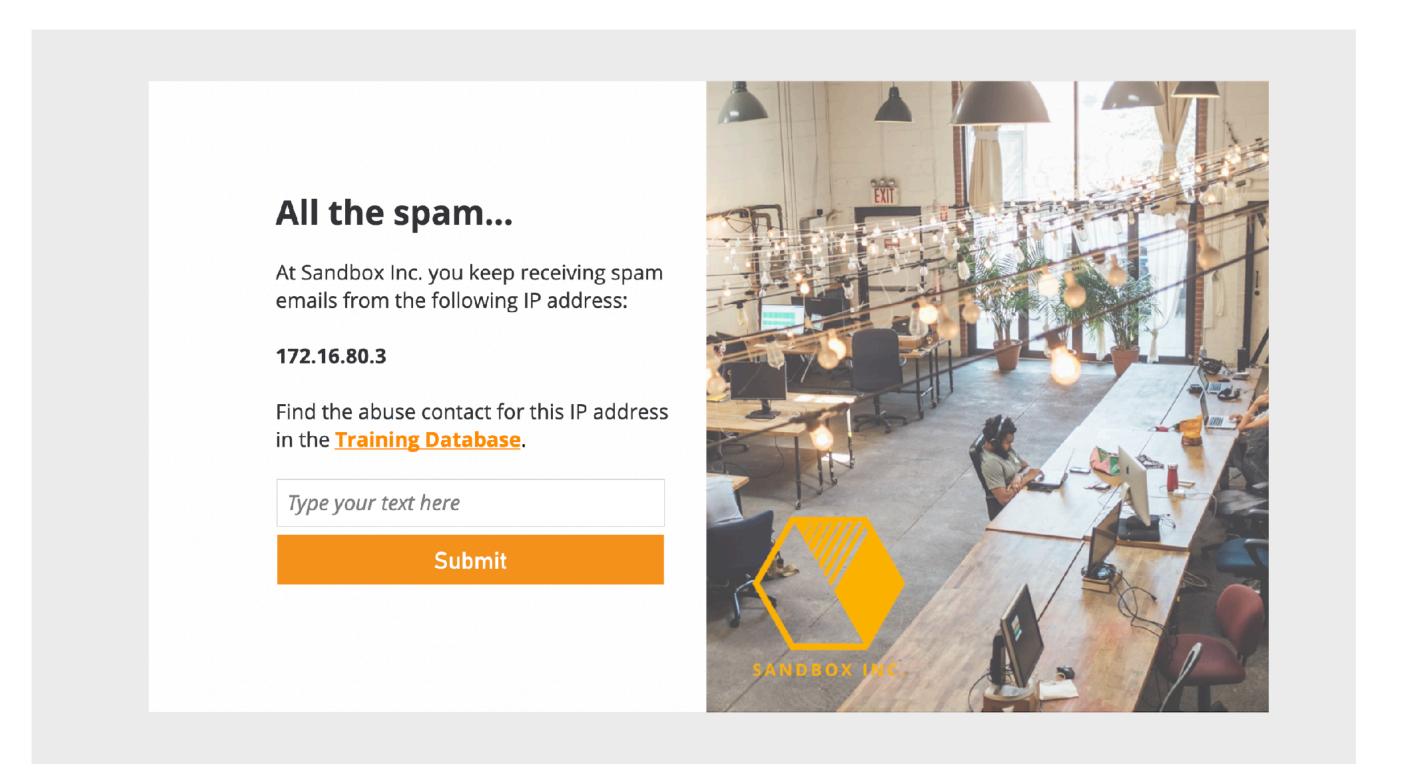


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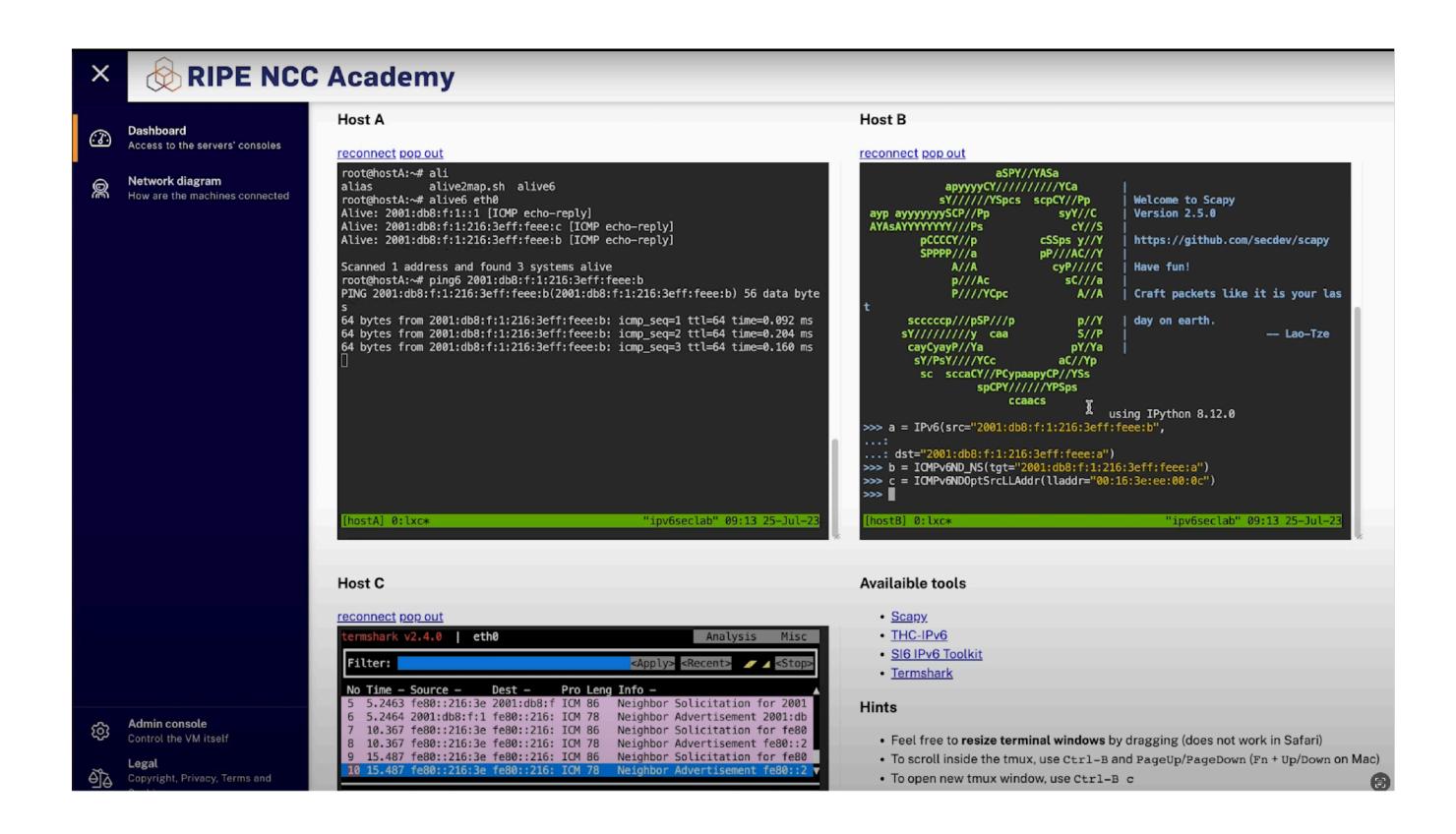


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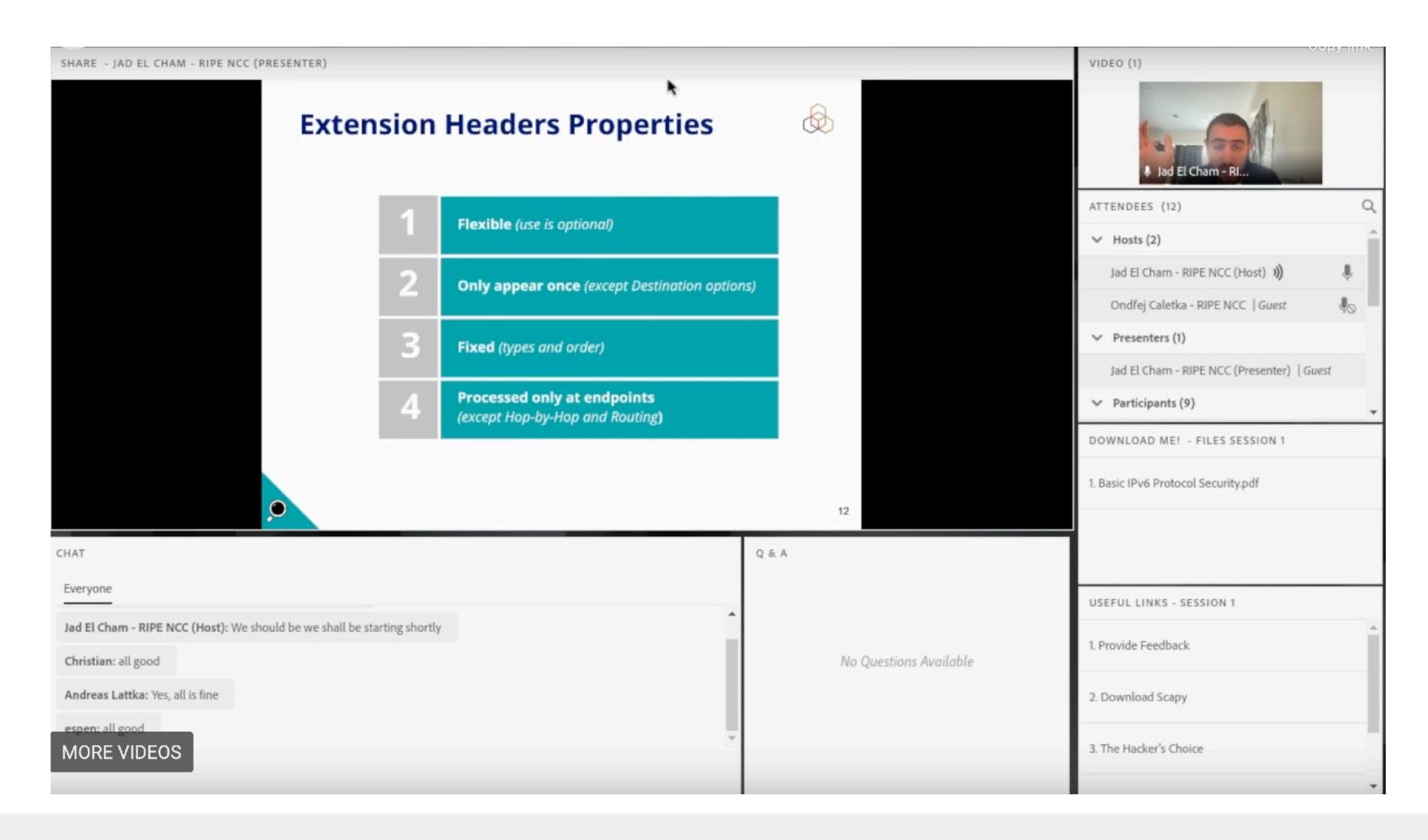


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 1-2 hour online live sessions

https://learning.ripe.net

From RIPE 87 onwards

- Gathered input from Academia about how to better work together
- Received input that integration with university LMSes is important
- We will establish LTI integration in our LMS
- Academic engagements

University of Kufa
Intro to Routing Security

University of Doha (UDST)
Visited university and professors
and 2 student groups

University of Crete
Intro to RPKI & Intro to IPv6



December 2023 February 2024 April 2024



Tell us how we can help you!

Takes about 3 minutes



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