



RIPE NCC

RIPE NETWORK COORDINATION CENTRE

THE RIR SYSTEM AND THE RIPE NCC

The RIR System



source: <https://www.ripe.net/participate/internet-governance/internet-technical-community/the-rir-system>

The Role of an RIR



- •RIPE NCC
- •Located in Amsterdam, Netherlands
- •Not-for-profit Organisation
- •20,000+ members

The Role of an RIR



- Distributes IPv4, IPv6 and ASNs
- Provides training courses
- Maintains the RIPE Database
- Supports the RIPE community
- Develops tools such as:
 - RIPE Atlas
 - RIPEstat
 - Resource Certification (RPKI)



Policy Development Process

RIPE Working Groups



- Cooperation WG
- Internet of Things Working Group
- Address Policy WG
- Anti-Abuse WG
- Connect WG
- Database WG
- DNS WG
- IPv6 WG
- MAT WG
- Open Source WG
- RIPE NCC Services WG
- Routing WG

RIPE Working Groups



- **Cooperation WG**-The cooperation working group primarily discusses outreach from the traditional RIPE community to everyone else, especially governments, regulators and NGOs, all of whom we are trying to bring into our community
- **Internet of Things Working Group**-created to facilitate the exchange of information concerning the Internet of Things, particularly as it may have impact on RIPE NCC, RIPE or our stakeholders' operations



Supporting Network Operators Groups

Our Goals



- Connect NOG participants with the RIPE community (and vice versa)
 - At RIPE Meetings, along with a meeting for NOG organisers to share experiences
- Support local and regional relationships
- Engage more effectively across our service region
- NOGs have a crucial role to play in the Internet's development - we support that!

How We Support NOGs



- We can help local/national NOGs by:
 - Providing speakers for their events (RIPE NCC staff or others)
 - Helping with sponsorship (venue, catering, social events)
 - Offering expertise (from supporting the RIPE community for almost 30 years)
- Platform for NOGs on RIPE Labs:
 - <https://labs.ripe.net/nogs>
- Comprehensive survey on NOGs in our service region:
 - <https://labs.ripe.net/Members/fergalc/nogs-in-the-ripe-ncc-service-region>



Online Learning

Webinars and More

Webinars



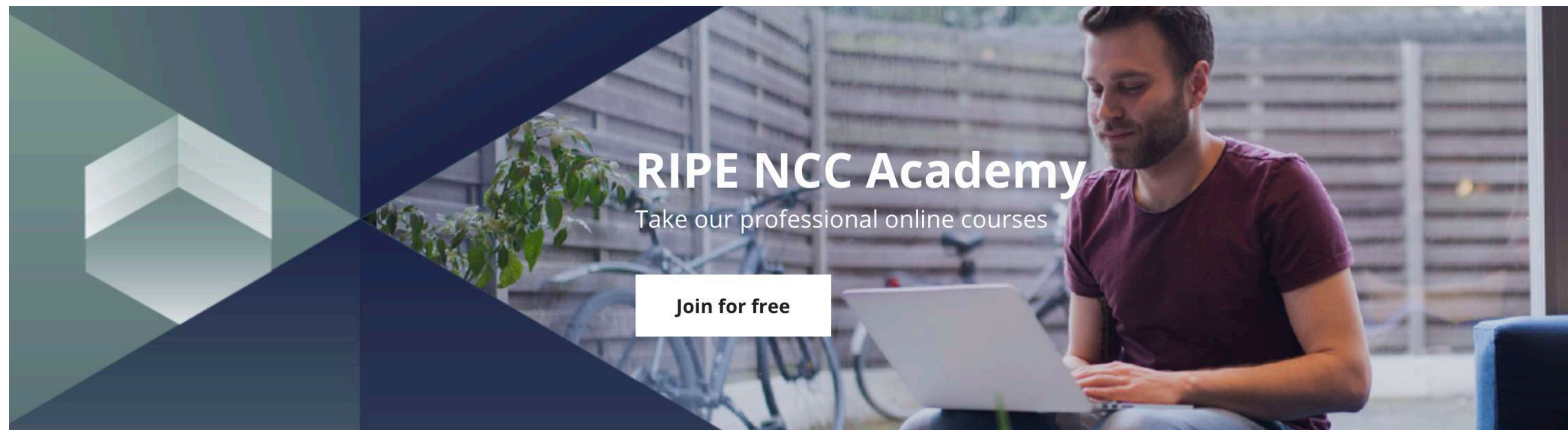
- We offer the webinars on the following topics:
 - Internet Routing Registry (New)
 - RIPE Atlas
 - RIPE Database (Intro and Advanced)
 - IPv6 Addressing Plan
 - IPv6 in the RIPE Database
 - New LIRs



RIPE NCC Academy



- Professional online courses:
 - Local Internet Registry, RIPE Database Expert, IPv6
- Certify your knowledge (for free!)
- academy.ripe.net





RACI

RIPE Academic Cooperation Initiative

About RACI



- Started in 2013 as a way to connect the RIPE community with the research community
- Offers academics the chance to present their work, make connections and get feedback
- Successful applicants receive complimentary tickets, travel and accommodation to meetings
- All applicants can publish their work through RIPE Labs (labs.ripe.net)

Examples of Relevant Topics



- Network measurements and analyses
- IPv6 deployment
- BGP routing
- Network security
- Internet governance
- Peering and interconnectivity
- Internet of Things

Get Involved



ripe.net/raci



ripe.net/raci/mailling-list



[@RACI_RIPE](https://twitter.com/RACI_RIPE)



ripe.net/linkedin



Academic Engagement

Workshops and Information Sessions



- Phase 1 activities usually include half-day workshop/information session with partner universities/institutions
- Topics covering Internet Fundamentals, Data Analytics, Trends in Telecom Sector, Domain Name System, etc.
- In CCA region held in Armenia, Georgia, Kyrgyzstan, Uzbekistan
- Free of charge
- RIPE Atlas probe distribution
- Involving local and international partners to deliver localised content

Workshops and Information Sessions



- Phase 2 activities may include deeper cooperation to:
- Work together with RIPE Atlas
- Develop and deploy joint educational programs
- Support the organisation of hackathons by partner university/institution
- Organise RIPE NCC hackathons with partner universities/institutions



RIPE Hackathons

RIPE NCC Hackathons-10th Edition



- Where: Rotterdam, 12-13 October 2019
- Topic: IoT
- Aim: developing IoT technologies and providing a platform for the community to collaborate, experiment and sample possible IoT solutions.
- Eligible participants: back-end and front-end developers, product owners, product managers, UX experts, innovators and more.
- Collaboration and not the competition!

Pan-European Quantum Internet Hackathons



- 5 locations: TU Delft (NL), Trinity College Dublin (IE), CNRS, Paris (FR), University of Padua (IT), University of Sarajevo (Sarajevo, Bosnia & Herzegovina)
- 5-6 November, 2019
- Goal: develop some of the first applications that use quantum mechanics to secure their online communications
- Application deadline is 15 September 2019

More information...



RIPE NCC IoT Hackathon

Pan European Quantum Internet Hackathons



**RIPE Fellowship
ENOG Fellowship
RIPE NCC Day RIPE
Fellowship**

About the Fellowships



- Funds travel, accommodation and meeting ticket (for RIPE Meetings...other meetings are free to attend)
- Part of effort to increase diversity and inclusion
- Open to anyone who works or studies in a field relevant to the RIPE community
- Must be from the RIPE NCC service region
- Aimed at newcomers
- Apply for RIPE 80 in Berlin! Dates will be announced after RIPE 79! Check ripe.net/fellowship



RIPE NCC Community Projects Fund

RIPE NCC Community Projects Fund



- The RIPE NCC has a long history of supporting projects and innovative ideas
- In 2017, we formalised these efforts through the RIPE NCC Community Projects Fund
- €250,000 a year to support non-commercial projects of value to the operation and resilience of the Internet
- Preference for projects from our service region

Project Criteria



- Must benefit the Internet, particularly the RIPE community
- Must be non-commercial
- There must be a clear project plan and timeline
- Applicants may apply as many times as they want for different projects per year
- The same project may be funded more than once, but not in the same year
- ripe.net/cpf

The Funding



- No minimum amount of funding that must be disbursed each year
- No limit on the number of projects that can be funded per year
- May be used to purchase equipment, but this cannot be the sole expenditure
- Can't be used for humanitarian aid, donations, or to encourage political reform
- Can't be used to provide scholarships or cover tuition fees
- Cannot be used to support a commercial activity

Check grantees!



- Next round of applications opens in May 2019
- The winning projects will be announced in September 2019
- See the website for [CPF Grantees in 2017](#) and 2018 winners

[CPF Grantees in 2018](#)



Events in 2019

Meetings in 2019



MENOG , 31 March- 4 April, Beirut
RIPE NCC Day Russia , 9 April, Moscow
SEE , 16-17 April, Sarajevo
RIPE 78 , 20-24 May, Reykjavik
ENOG 16 , 3-4 June, Tbilisi
Member Lunch in Kyrgyzstan , 30 September, Bishkek
RIPE NCC Day Ukraine , 24-25 September, Kyiv
RIPE 79 , 14-19 October, Rotterdam
N2 Forum (partner event) , 10-12 October, Yerevan

ASO-Address Supporting Organization



ICANN | ASO

Address Supporting Organization

The purpose: to review and develop recommendations on Internet Protocol (IP) address policy and to advise the ICANN Board.

Who is there: Fifteen volunteers, three from each of the five RIR communities, serve on the ASO Address Council (AC).

ASO AC's responsibilities include:

1. Undertaking a role in the global policy development process.
2. Defining procedures for the selection of individuals to serve on other ICANN bodies, in particular on the ICANN Board, and implementing any roles assigned to the AC in such procedures. The ASO AC selects ICANN Board seats 9 and 10.

ASO-Address Supporting Organization



ICANN | ASO
Address Supporting Organization

ASO AC's responsibilities include:

- ✓ Undertaking a role in the Global Policy Development Process (GPDP) and ensuring that policy has been followed.
- ✓ Defining procedures for the selection of individuals to serve on other ICANN bodies, in particular on the ICANN Board.
- ✓ Selecting individuals to serve on ICANN's Board in Seats 9 and 10.
- ✓ Providing advice to the ICANN Board on Internet number resource allocation policy in conjunction with the ASO/NRO.

NRO-Number Resource Organisation



NRO is a coordinating body for RIRs.

The NRO Number Council (NRO NC), is an elected body of 15 volunteers. As stated in the ICANN ASO MoU, the NRO NC serves as the ASO Address Council (ASO AC).

ASO AC / NRO NC Members

Each RIR community selects two people to serve on the ASO AC / NRO NC. Each RIR's Executive Board also appoints one person from its respective region to serve.

NRO-Number Resource Organisation



Mission: The mission of the NRO is to actively contribute to an open, stable and secure Internet, through:

Providing and promoting a coordinated Internet number registry system.

Being an authoritative voice on the multi-stakeholder model and bottom-up policy process in Internet governance.

Coordinating and supporting joint activities of the RIRs.



Questions



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