

# MEASUREMENTS AND TOOLS

This is a one-day course. The topics include RIPE Stat and RIPE Atlas. The course is split between theory and hands-on exercises.

## Goals

- Use RIPEstat to debug your own networks
- Find additional information about other networks
- Learn how to use RIPE Atlas for network monitoring and troubleshooting
- Learn how to create specific tailor-made measurements that suit your exact needs using API calls or the command line interface
- Opportunity for hands on practice

## Pre-Requisites

- For the RIPEstat part you need a basic understanding of:
  - Networks
  - How the Internet works
  - IP, ASN, domains
  - RIPE Database
- For the RIPE Atlas part you need a good understanding of:
  - Networks
  - How the Internet works
- For the RIPE Atlas part you need a basic understanding of:
  - ping, traceroute

## Course Content

### RIPEstat

- Introduction
- Introduction to RIPEstat
- More about Widgets
  - *Exercise A: Querying for a Resource*
- Visualising BGP Routing Information
  - *Exercise B: BGPlay*
- Reporting Abuse
- Visualising RIPE Database Data
- Personalising RIPEstat
- Comparing Networks
  - *Exercise C: RIPEstat Quiz*

### RIPE Atlas

- Introduction to RIPE Atlas
- Using RIPE Atlas as a Visitor
- Looking up Public Probes
- Finding Results of a Public Measurements
  - *Demo and Exercise D*
- Network Monitoring
  - *Exercise E: Using Streaming API*
- Command-line Interface Toolset
  - *Exercise F: Using RIPE Atlas CLI*
- Use Cases
- More RIPE Atlas Features
- Take Part in the RIPE Atlas Community

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