Ripe Atlas Project – Kickoff meeting

After a brief introduction, we discussed the goals of the project:

The project is made of two main part:

The first is to create a software tool/wrapper to existing APIs, to help interact with the Ripe Atlas database: extraction and simple processing.

This tool will be used in the second part:

In the second part, we will analyze unusual phenomena during the Corona crisis. Specifically we will look on the anomalies which we expect to see during major key points, such as the lockdowns.

Some of the data that can be extracted and analyzed is:

Network performance, Internet reachability, DDoS attacks, DNS performance, Internet Topology.

These are not the only types of information that can be gathered from the RIPE Atlas, and one of our goals is to choose which data we wish to analyze after conducting further research on the subject.

The next tasks are:

1. Plan the future work on the project by creating the project journal
2. Define the identifiable phenomena related to COVID-19 to be investigated
3. Conduct thorough research on the available information and existing APIs in RIPE Atlas
4. Draft a High-Level Design document that comprehensively outlines the software architecture of the tool
5. Code and test the software tool
6. Conduct a meeting with stakeholders before proceeding to the next phase
7. Utilize the software tool to identify and analyse internet anomalies that occurred during the COVID-19 crisis.