Milestone 1

Requirements:

- Develop application monitoring network performance parameters:
 - The monitoring limited to: communication with four Content Delivery Networks (CDNs);
 - Number of monitored CDNs: 4;
 - CDNs selected by: most number of requests;
 - o Parameters to monitor: RTT, packet loss, throughput.
 - Active monitoring: RTT, packet loss;
 - Passive monitoring: throughput.
- Collecting results of the monitoring:
 - Active monitoring sampling rate: 10 minutes (default);
 - Active monitoring tests intensity: 100 probes per sample (default);
 - o RTT presentation: ave, min, max, standard deviation;
 - Passive monitoring sampling rate: 5minutes (default);
 - Configurable monitoring parameters: sampling rate, tests intensity;
- Storing results of the monitoring:
 - Data must be browsable;
 - Data must be consumable by other applications;
- Data presentation:
 - User interface: Command Line Interface (CLI);
 - → Data format: numerical;
 - Data must be consumable through an API:
 - HTTP Method: GET
 - URL:/{monitored_parameter}?start_date={start_date_epoch}&end_date={end_date_epoch}
 - Parameters:
 - {monitored parameter}
 - a string identifying the monitored parameter whose data is to be returned - i.e. rtt, packetLoss, throughput, all.
 - start date, end date
 - start and end dates expressed as epoch. The dates identify the period for which data has to be returned.
 - Returns 200:
 - Format: JSON:
 - Returned data: samples for monitored_parameter described with timestamp.

- If the period is longer than available, return all samples within the period.
- Returns 400 if:
 - malformed parameters are passed;
 - there are no samples for the requested period.