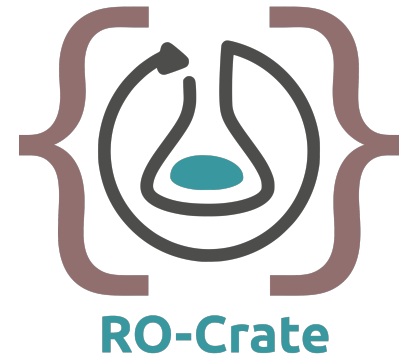


Generating Experiment Documentation Websites for RO-Crate

Motivation

At the Chair of Network Architectures and Services, we host various testbeds for network experiments. We employ a self-developed testbed methodology called "pos" to conduct our experiments. As a step towards open science, we currently integrate the RO-Crate standard to document experiments in a standardized format. A key feature of RO-Crate is the ability to cross-link experimental data with the corresponding metadata that describes the experiment's setup and configuration.



In addition to the mandatory JSON file required by RO-Crate, there is also an optional requirement to create a website that presents the experiment's data and metadata in a user-friendly format. This website is primarily static and offers an efficient interface for browsing the results.

Although some tools are available to generate websites from RO-Crate, most of them only provide an extended tree view of the data. As part of our efforts, we aim to enhance one of these existing tools to better align with the requirements of our testbed infrastructure and methodology. Alternatively, we may also consider developing a completely new solution from scratch.

Requirements

Very good skills in (static) web development and Python are required!

Your Task

- Familiarize yourself with the RO-Crate standard
- Investigate the potential of the available website generation tools
- Implement a website generator for RO-Crate based on our requirements
- Deployment of the generator in the testbed infrastructure

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