L4S at IETF 108 Hackathon

Meeting times:

Most activity will be focused on Monday-Thurs between 14:00-18:00 UTC, although people may be around at other times.

Chat/coordination:

We will use the 'hackathon' stream of the ns-3 channel on Zulip (https://ns-3.zulipchat.com). Please introduce yourself there if you are participating.

Goals

ns-3 has many models related to L4S in various stages of completion. The goal of this hackathon will be to work on those models further.

Another goal will be to document how to experiment with the Linux Prague implementation on a cloud testbed such as CloudLab, as described by Ashutosh on recent posts on the TCP Prague mailing list. Data from Linux experiments will be used to validate the ns-3 models.

Getting started

We will use the 'hackathon/master' branch at https://gitlab.com/tomhenderson/ns-3-dev.git as the main integration branch. Please generate merge requests on GitLab.com for anything you would like to merge there. Its starting point is the current tip of ns-3-dev.

You can either fork (if you plan to submit merge requests) or clone ns-3-dev. Please add the above repo as a remote to your fork or clone of ns-3-dev. e.g.

```
$ git remote add tomhenderson https://gitlab.com/tomhenderson/ns-3-dev.git
$ git fetch tomhenderson
$ git checkout -b hackathon/master tomhenderson/hackathon/master
```

There are also some L4S experimentation scripts at a separate contributed module. Please have a look at the README.md here: https://gitlab.com/tomhend/modules/l4s-evaluation.git.

To run the experimentation scripts, you must clone that separate l4s-evaluation repository into the contrib/ directory of ns-3.

Who is doing what

I will try to keep a current list here of who is working on various items.

Tom Henderson: Integration and review

Deepak Kumaraswamy: Continuation of the ns-3 TCP Prague model (probably the RTT independence feature).

Bhaskar Kataria: FQ/Cobalt with L4S support

Harsha Sharma: A native ns-3 Flent model

Ashutosh Srivastava and Fraida Fund: Assistance in setting up Linux kernel implementation of Prague in Cloudlab environment.