Meeting of the Technical Steering Committee (TSC) Board

Wednesday, October 7th, 2020
11:00am ET

Meeting Logistics

- https://zoom.us/j/556149142

- United States : +1 (646) 558-8656
  - Meeting ID: 556 149 142

Antitrust Policy Notice

- Linux Foundation meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.

- Examples of types of actions that are prohibited at Linux Foundation meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at http://www.linuxfoundation.org/antitrust-policy. If you have questions about these matters, please contact your company counsel, or if you are a member of the Linux Foundation, feel free to contact Andrew Updegrove of the firm of Gesmer Updegrove LLP, which provides legal counsel to the Linux Foundation.

THE **LINUX** FOUNDATION

openHPC

Agenda/Updates

- Announcements, deadlines, upcoming events:
  - 2.0 GA released yesterday
  - SC'20 Tutorial scheduled: Tuesday, 10 November 2020 (10am-2pm, EST)

- Quarterly access stats

- Cloud working group (csim)

- ohpc-based containers (Adrian)

- Mentorship program

- Branch change

- Next release discussion

Updated Usage/Access Statistics (thru Q3 2020)

Repo Server(s) Access: **Unique Monthly Visitors**

Repo Server(s) Access: **Monthly Data Downloaded**
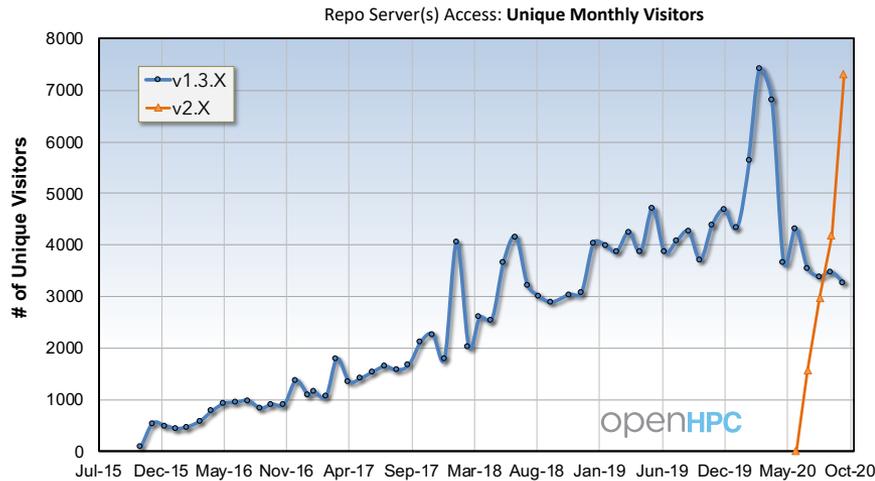

- Stats for build/repo servers (tracking # of unique visitors per month and amount of data downloaded):

  http://build.openhpc.community
  http://repos.openhpc.community
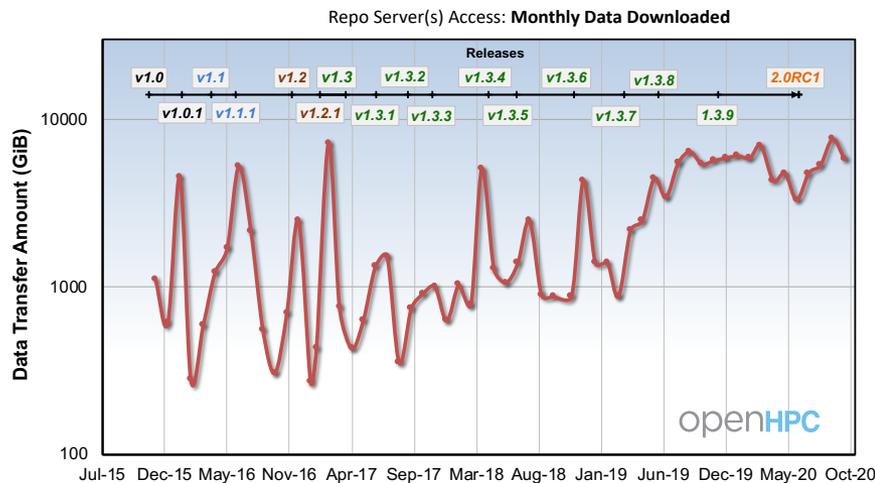
- Averaging ~5.5 TB/month download in 2020

Average download/month (TB)

2016	2017	2018	2019	2020
1.67	1.33	1.79	4.15	5.44
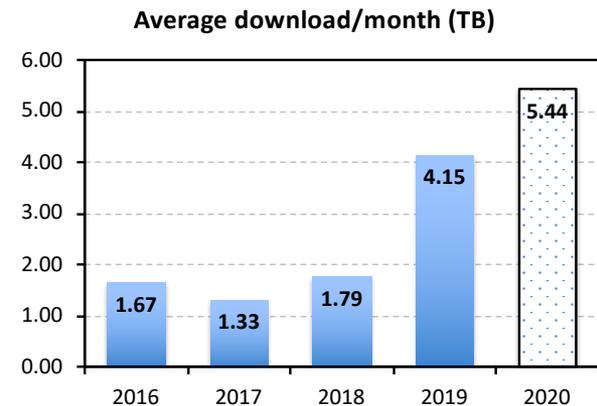
Updated Usage/Access Stats (thru Q3 2020)

- These stats monitor access specifically to package repository metadata (typically expected to be via yum/zypper)

- Repo access binned by minor version

OpenHPC Package Repo Access
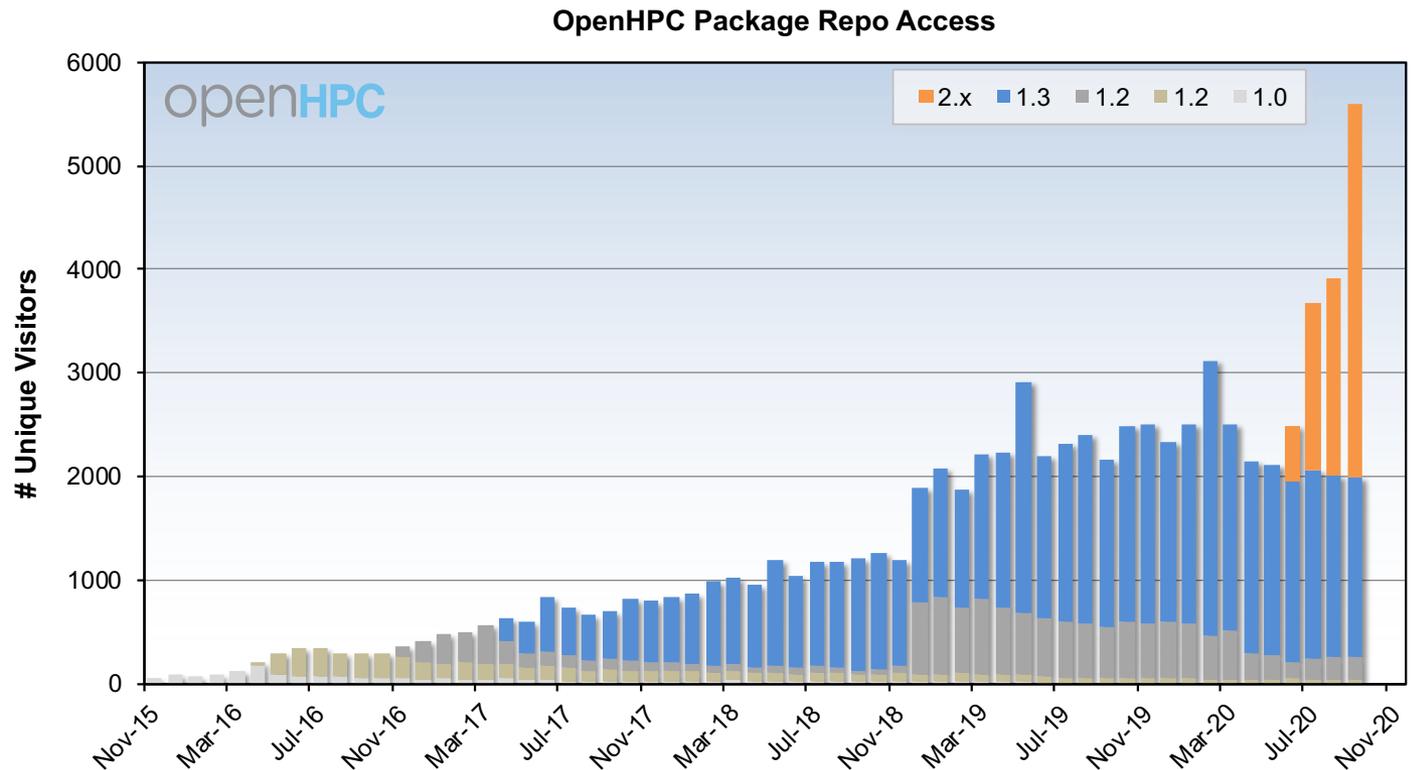
# Updated Usage/Access Stats (thru Q3 2020)

Architecture specific metrics:

- To provide some characterization, we scrape the access logs to analyze two architecture specific file types:

```
(aarch64|x86_64).rpm
(aarch64|x86_64).tar
```

- Plots compare percentages for the amount of data xfer'ed and the # of unique visitors accessing the (aarch64|x86_64) files
    - includes 2.X repo as of June 2020

Download Comparision by Architecture
(based on data downloaded)
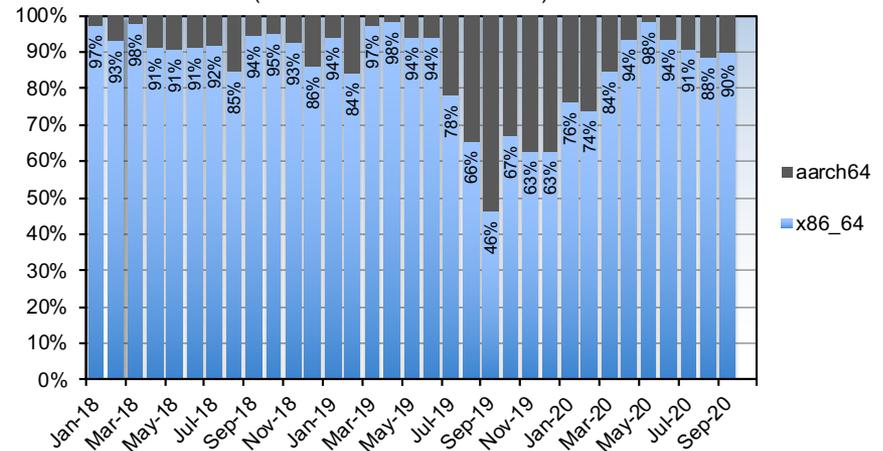
Download Comparision by Architecture
(based on # of unique vistors accessing RPMs)
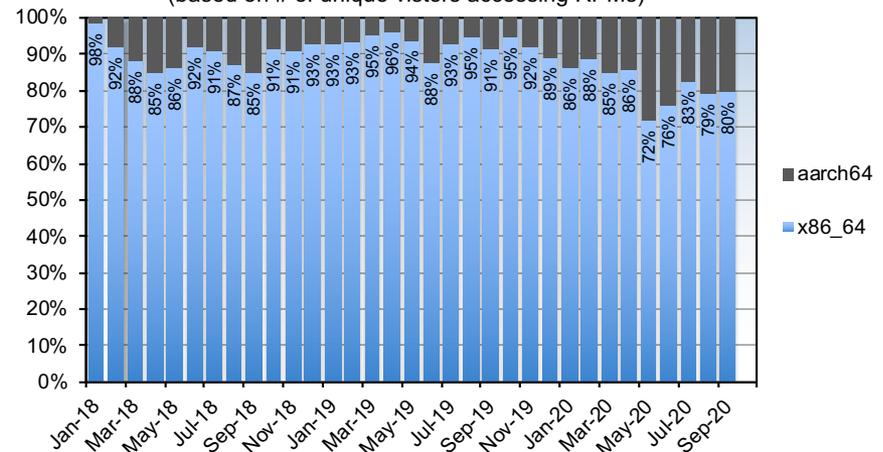
OHPC Cloud Working Group Updates

- Meeting weekly through SC

- Outline of the tutorial
  - Intro ~30 minutes (Karl)
  - Building, deploying and using the cluster ~2 hr (Chris S.)
  - Container exercises ~30 minutes (David)
  - Closing remarks / questions ~30 minutes (Karl and team)
  - 2 breaks of ~15 mins each during and after the 2hr slot

Next Steps

- Chris D. is working on LDAP integration
- Karl will …
  - create new ohpc AWS IAM accounts
  - ~~try to bring back the github pages site~~
- Chris S. will …
  - deploy a small 2 compute node cluster for David to use for testing
  - start working on the documentation site

OpenHPC containers demo (Adrian)

Mentorship Program

- We ended up selecting for mentees for the first mentorship program
  - 3 US
  - 1 international

- Have created a private slack channel (#mentorship-2020) and separate repo on OpenHPC github to interact with mentees

- Two step program:
  - first: mentees have been asked to work together to create and document recipes for building virtual openhpc clusters
  - second: with local sandboxes in place, mentees will work with their assigned TSC mentor on a specific project

- Thank you Chris S, Derek, Nirmala, and Reese for volunteering to work with the students

GitHub changes

- Now that 2.0 is out, am planning to make a small tweak to branching strategy

- In 1.3.x tree, we have been using separate branches for each release
  - made it a little easier to deal with setting up builds in OBS

- For 2.x, I mostly use a standalone (python) utility to register ohpc builds with OBS
  - should facilitate alternate branch strategies easier

- Net result: I'm planning to rename our current 2.0 branch to 2.x and use this branch throughout the 2.x release history….

Discussion on Next Release priorities

- With 2.0 finally out, need to think about priorities for next releases
  - given that SC is virtual and we just did 2.0, probably not as important to have something else new in November time frame

- v1.3.9 was released at SC'19

  - do have some reported issues and requests from the mailing list for an update:
    - from list: updates for CentOS7.8, newer SLURM
    - known issue: mpi4py with python3 (https://github.com/openhpc/ohpc/issues/1151)
  - thinking it might be good to knock out a 1.3.10 release with minimal changes and then enter maintenance mode
    - however: no major updates to compiler or MPI variants

- Can then focus on v2.1