Documentation and Training Initiatives

Virtual Face-to-face

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D&T co-Leads

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The Year in Review

- The recent past in Review report
  - Website move and refresh
    - Thanks Mark!
  - Logo
  - Training initiatives through partners
    - Webinars
      - pS YouTube Channel
    - International Trainings (Tanzania, Morocco, Laos, Mozambique, and more!)
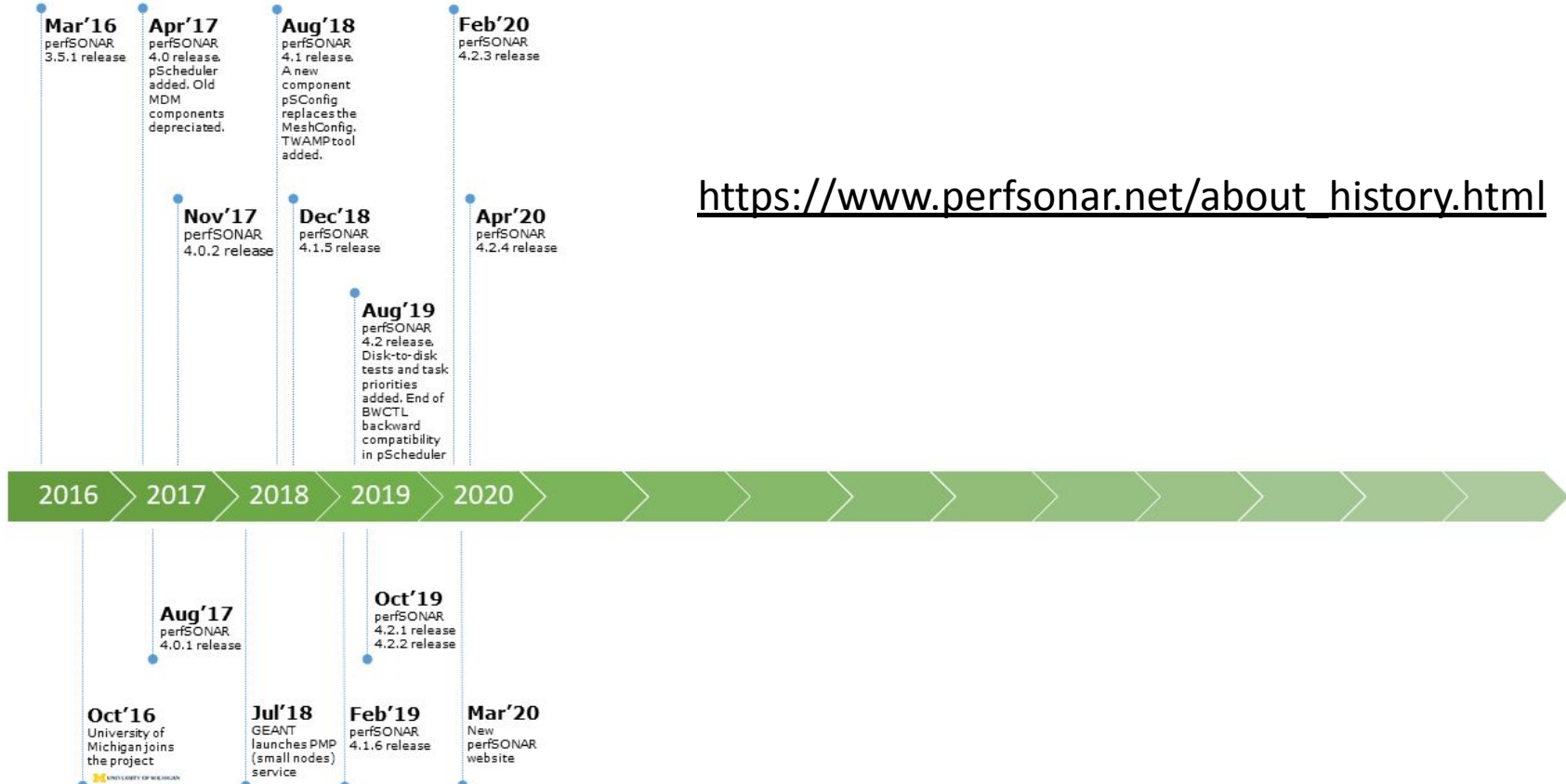   - EPOC Roadside Assistance

perfSONAR HISTORY TIMELINE 2016 - present

https://www.perfsonar.net/about_history.html

The Year Ahead

- What we want to do next
    - Top 5 lists collection
        - Leading towards FAQ docs and Quicksheets for clarity/new users
    - Collecting and Communicating pS Success Stories
    - Refreshing our Video Library
        - NSRC-produced video series is coming up on 6 years old now; much has changed

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Top 5 Lists

Categories

- Installation Issues
- Commonly Found Network problems
- Reasons pS Nodes Fail
- MaDDash Setup Snags
- Building on points made by Andy and Michael the past couple of days regarding QA, Solving existing issues, and Improving User Experience

What we Gain/Produce from these

- Content
  - FAQ's
  - Quicksheets
- Better Insight into Issues which may need addressing
- Stability and ease of entry for new users (Getting away from *needing* to be a pS Expert ™)
- Etc…

pS Success Stories

- What is a "Success Story"
- https://drive.google.com/drive/u/1/folders/1JUzar0iMpuIgpRCVgELBn4UP5F7RBM2P

- Andy gave us the first, but MANY of us listening today have active meshes/nodes that are finding issues through our daily work

pS Success Stories

ESnet CHIC-HOUS

Networks/Organizations Involved: ESnet

People Involved: Andy Lake (ESnet), David Mitchell (ESnet)

Problem Description:

On March 18, 2020 Andy was contacted by David Mitchell in ESnet's operations group about a strange behavior he was seeing with the perfSONAR throughput graphs. On March 13, 2020 1Gbps connected pantex-pt1.es.net results dipped to 100Mbps consistently across all tests. The ESnet controlled Pantex (https://pantex.energy.gov) tester connects closest POP is houston which also has a perfSONAR host at hous-pt1.es.net. Looking at latency and traceroute history there was nothing indicating a change. Running UDP throughput tests also yielded 100Mbps consistently, even when higher rates were specified.
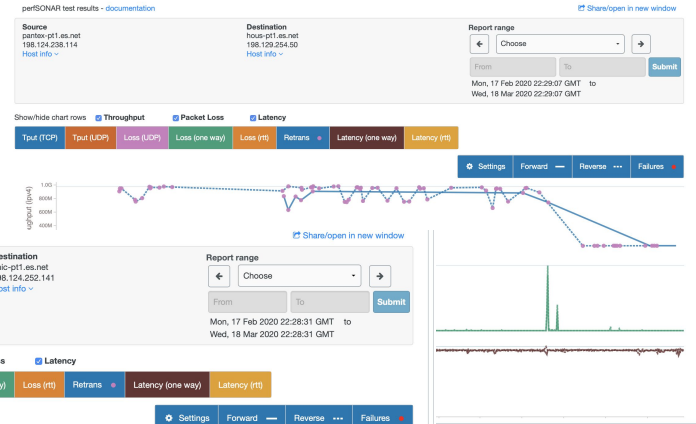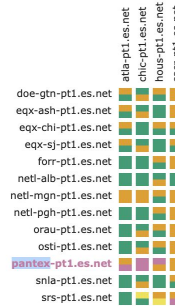
Resolution:

It turns out that the ESnet Network Engineering Group made a change that was not communicated to the Operations Group to cap the pt interface to 100Mbps while waiting for maintenance to be done by the carrier on a failing circuit since there were fears of overloading the circuit. You can actually see a number of small loss events in the graphs before the 13th, that are actually larger if you zoom in since at the 1 month view you are looking at daily averages, which I believe are artifacts of the failing circuit prior to the cap.

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pS Success Stories

- Doesn't have to be a dissertation

- Should be a clear/compelling Use/Success

- Include images and explanations

- Not each of these will be a unique example – that's OK

- Just seeing examples of pS in action will be helpful

- Like the "Top 5" lists and discussion these will/can/should help to focus current needs for improvement and future growth

pS Video Refresh

Current Videos

- NSRC-produced videos with JZ and Brian T
  - https://learn.nsrc.org/perfsonar/
- Webinars
- Some CI Brownbag Talks

What we're doing this time

- Rolling out new content produced in homes
- Keeping content short (<2min)
- Keeping out terms/specifics which could lead to faster obsolescence
- References, references, references

Thanks everyone.

(Looking forward to seeing all of you as volunteers for talking head duty!)

Documentation and Training

F2F - Zoom

All of us

June 17, 2020