nfsv4wg Milestone Review

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Nfsv4 WG Meeting at IETF 105 in Montreal

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Current Milestones
Milestones Already Achieved

Item	Type	Goal	Owner	Target	Status
Migration Issues	Inf.	WGLC	D. Noveck	6/2018	Done (no RFC).
NFSv4.0 Trunking Discovery	Std.	Final Doc.	C. Lever	11/2018	Done (RFC 8587 published as Proposed Standard).

Current Milestones
Milestones not Achieved – Target Date in Past

Item	Type	Goal	Owner	Target	Status
NVMe for pNFS	Std.	Final Doc.	C. Hellwig	6/2018	NVMe Slides
NFSv4.1 Trunking Discovery	Std.	Final Doc.	D. Noveck	3/2019	Late • Hoping for 10/2019. • Discussed elsewhere.
NFSv4.1 Transparent State Migration	Std.	Final Doc.	D. Noveck		
CM Private Data	Inf.	Final Doc.	C. Lever	6/2019	Late due to back-end issues. • Expected by 9/2019.

Current Milestones
Milestones not Achieved – Target Date in Future

Item	Type	Goal	Owner	Target	Status
RDMA Layout for pNFS	Std.	Final Doc.	C. Hellwig	9/2019	RDMA Layout Slides
RPC-over-RDMA, Version 2	Std.	Final Doc.	C. Lever	12/2019	Probably late • Need WG document soon. • Discussed elsewhere.

Adding Milestones
Motivation and Requirements

- Note that our initial two-year window will end at the end of this year
  - Will need to be thinking about replacement milestones.
- Needed for each proposed milestone:
  - An owner.
  - A target date.
  - A preliminary document (can be an individual draft).
  - Working group interest.
- Should have a target date before 8/2021 (two-year window)

Adding Milestones
Some Possibilities to Follow up on

- Likely Candidates (both existing working group documents)
  - Draft-ietf-nfsv4-integrity-measurement
  - Draft-ietf-nfsv4-rpc-tls
- Likely future working group documents:
  - RFC5661bis?
  - NFS-focused security-related document
  - RPC-over-RDMA Version Two
- Other possibilities:
  - Other descendants of draft-cel-nfsv4-linux-seclabel-xtensions?
  - Descendant(s) of draft-haynes-nfsv4-delstid?
  - Flexible files v2?
  - Does anyone know of others?

NVMe for pNFS
Current Status and Expectations

- Current status:
  - Existing I-D expired with no progress beyond what was discussed at IETF 99.
  - Current target date has gone by a year ago.
  - Still high working group interest in seeing this done.
- Expectations for progress:
  - Author is reported to be interested in working on this. ↑
  - Author has done nothing on this for a long time. ↓

NVMe for pNFS
Possible Actions

- Working group needs to either:
  - Retain as a revived milestone, if a volunteer for the owner/editor position can be found.
  - Drop as milestone now and re-instate if and when a volunteer appears.

- Also to be considered:
  - Whether a more limited, easily achievable milestone (e.g. an informational document) could be put on milestone list.
  - Getting further clarification of what really needs to be done to get this done.

pNFS RDMA Layout
Current Status and Expectations

- Current Status
  - No active document (either I-D or WG document).
  - There has been some prototyping work based on the original expired document.
  - Existing target date is clearly unrealizable.
- Expectations for progress
  - Prototype work has raised additional issues that may need to be addressed in this document. ↓
  - Author still interested in working in this area. ↑
  - No activity from author for a long time ↓

pNFS RDMA Layout
Issues/Actions Regarding Milestone Target Date

- Need to determine work needed for completion and assess:
  - Whether work was at such an early stage that assigning milestones was done in a vacuum, over-optimistically.
  - Whether we know enough to assign a new milestone target date now.
  - Whether we can arrive at a new target date that fits within our two-year window.
- Possible actions regarding milestone list:
  - Remove from milestone list (with continued WG interest)
  - Retarget document to a later date, if one can be arrived at

pNFS RDMA Layout
Other Actions to Consider

- Look at other ways to get progress in this area:
  - Is there interest in a more general document in this area, such as a requirements document?
  - Could additional authors or an editor help make progress?
  - Are there useful ways to encourage further prototyping?
- May need to have further working group discussion of this area:
  - Need to assess level of working group interest.
  - Discussion of our options regarding work on this layout type.
  - Might require something beyond email discussion, either at a future IETF meeting, an interim meeting, or a conference call.