

Happy New Year! Here is your January CORTX newsletter.

### Meet the Architect

There is no Meet the Architect scheduled for January. However, if you missed any of the wonderful MTA sessions we hosted this year, we have them listed below.

- December 3 2021: Tim Shaffer discusses asynchronous replication, which uses CORTX's FDMI capabilities to replicate data between S3 buckets and between clusters. [Video](#).
- November 4 2021: Liana Valdes discussed an exciting new addition to the CORTX project. FDMI allows data scientists to subscribe to event notifications and then perform custom manipulations or analyses on newly created (or updated) data, and Liana covered this in the context of CORTX. on. [PDF](#) | [Video](#).
- October 7 2021: From CentOS to Rocky Linux and beyond, Gregory Kurtzer, CEO of CIQ, has been at the frontline of the intersection of enterprise and open source. In this session of Meet the Architect, he shares his perspective on how and when open source makes sense and talks about some of the exciting projects he and his team have been working on. [PDF](#) | [Video](#).
- September 2 2021: In this presentation, CORTX architects Anatoliy Bilenko and Nikita Danilov will present the design and current implementation status of the distributed transaction mechanism at the heart of CORTX which is key to providing this resilience. [PDF](#) | [Video](#).
- August 5, 2021: John Bent describes the history of data protection and present a deep dive into declustered parity (a method of data protection that scales with the number of storage media). [PDF](#) | [Video](#).
- July 1, 2021: CORTX Developer Advocate Patrick Hession and CORTX Architect Andriy Tkachuk presented a tutorial about installing, configuring, and tuning motr clusters. [PDF](#) | [Video](#).
- June 3, 2021: Dr. Axel Orszag-Krisz, Dr. Richard Adam Vecsey, and other guests from our latest hackathon discussed on their integrations. [Video](#).
- May 6, 2021: Dr. Debasmita Samaddar from Culham Center for Fusion Energy (our first external speaker!) discussed "Parallel in time and object storage w/ CORTX". [PDF](#) | [Video](#).
- April 1, 2021: Sai Narasimhamurthy, Andriy Tkachuk, and Ganesan Umanesan presented the CORTX related research happening in the European Union on the SAGE CORTX Cluster. The discussion included Hierarchical Storage Management. [PDF](#) | [Video](#).
- March 4, 2021: Anatoliy Bilenko discussed observability in CORTX by demonstrating how to use the [ADDB in motr](#). [PDF](#) | [Video](#)
- February 4, 2021: Gregory Touretsky, the CORTX Product Manager, discussed the CORTX feature roadmap. [PDF](#) | [Video](#).
- January 7, 2021: Serkay Olmez discusses Data Durability and Availability Modeling in Erasure Coded Systems including a discussion about the importance of multi-level erasure coding. [HTML](#) | [PDF](#) | [Video](#).

### ICYMI

**Some recent PRs:**

1. There were a few PRs in the main repo that fixed a broken links <https://github.com/Seagate/cortex/pull/1379> <https://github.com/Seagate/cortex/pull/1378>
2. A member of the community tested the goofys integration with CORTX to make sure it was working and then added themselves to the tested by section <https://github.com/Seagate/cortex/pull/1376>
3. There was a PR in the cortex-prvsnr repo that improves version compatibility check <https://github.com/Seagate/cortex-prvsnr/pull/6318>
4. There was another PR in cortex-hare where a problem was identified with the lnet endpoint ports <https://github.com/Seagate/cortex-hare/pull/1928>

**Some open issues/discussion:**

1. The imagesAPI integration seems to be broken based on this issue <https://github.com/Seagate/cortex/issues/1364>
2. There is an issue in the cortex-hare repo where this command was not working as expected <https://github.com/Seagate/cortex-hare/issues/1923>
3. There was an issue with this doc in the motr repo <https://github.com/Seagate/cortex-motr/issues/1357>
4. There was another issue in cortex-motr which is caused by the install-build-deps script <https://github.com/Seagate/cortex-motr/issues/1356>

**Some Slack discussions:**

1. There was a really interesting discussion in Slack about if it were possible to create versions of objects at the motr level <https://cortexcommunity.slack.com/archives/C019S0SGWNQ/p1640009945108900>

That's all for this month! See you in February, when MTA will return on February 3<sup>rd</sup>.

Best,

Rachel Novak