Rachel Novak

Thanks for joining us for another edition of the CORTX Community monthly newsletter! We have a lot of great updates to share, so let's dive right in.

Meet the Architect – Observability in CORTX

Please join us on March 4th for our next Meet the Architect session, featuring Anatoliy Bilenko who will be joining us to discuss observability in CORTX and demonstrating how to use the ADDB in Motr. It is sure to be fascinating, so we hope to see you all there!

For those who can't attend, the session and slides will be available on the Meet the Architect page on Github. If you missed our last session, an overview of the CORTX roadmap with Gregory Touretsky, the CORTX product manager, it can be found here: PDF | Video.

CORTX at CloudNative Days in Japan.

We're excited to announce that we will have a session at CloudNative's online conference on March 11th and 12th. You can find out more about the conference and check out our session here オープンソースのObject Storage「CORTX」について | CloudNative Days Spring 2021 ONLINE

Motr Deep Dive Sessions – Available now.

Interested in learning more about the inner workings of Motr? The Motr Deep Dive sessions are now live! Click here to see the sessions available. Coming soon we'll have Motr feature demos, so stay tuned for that.

B-tree redesign

We are in the process of redesigning our B-Tree. The redesign aims to improve:

- **Compatibility.** Existing b-tree code was not designed to be forward compatible. All Motr metadata structured are properly bracketed with a header and a footer and are checksum-protected, so in theory it is possible to identify the record version and convert between formats. But in practice, conversion of large and complex metadata structure like b-tree (with millions of nodes and billions of records) is not possible unless it was designed with such conversion in mind. The deployments of the next release (ldrr2) are supposed to be online forever, which means that online metadata format conversion is a critical feature;
- **Functionality**. Future releases of Motr-based products will need additional features from b-tree. To reduce complexity and overhead of future format conversion, released b-tree format should accommodate for these features;
- **Performance**. Finally, performance of the existing b-tree implementation is sub-optimal. New implementation should have reduced io and memory footprints and improved concurrency.

You can read more about the redesign [here.](here)

<u>Office Hours</u>
As always, our developer advocates, Justin and Patrick, will now be hosting weekly office hour sessions online. Stop by and say hello! They are here to help and answer any questions you may have. Come to our live online office hours twice monthly.

- Justin Woo (justin.woo@seagate.com) will be available at 7am PST (Pacific Time) on the second week of each month. Click here to access an .ics for this event via Github.

- Patrick Hession (patrick.hession@seagate.com) will be available 8am GMT/UTC on the last week of each month. Click here to access an .ics for this event via Github.

That's all for this month! We'll have an update on the next CORTX hackathon soon, so please keep an eye out for that.

Best,

Rachel Novak (she/her)
CORTX Community Manager

Schedule a meeting with me about CORTX Community