Meet the Architect

Join us for our next [Meet the Architect session,](#) featuring CORTX developers Andriy Tkachuk and Sining Wu who will be discussing an exciting new development in the software layer used to connect Motr to S3 clients.

CORTX & RGW

We are pleased to announce that CORTX is collaborating with the Ceph community via Project Zipper to accelerate the development of a fully featured, production proven S3 interface. Project Zipper was started by Ceph in 2019 to "unzip" the tight coupling between Ceph's backend internal object store, RADOS, and its S3 conversion layer, RADOS Gateway (RGW). CORTX will now be able to utilize RGW to connect to Motr using the S3 api. The CORTX built S3 module is still available, but we hope that by bringing RGW to Motr, the community will have greater flexibility and an opportunity to further connect with another great open source project. The [CORTX RGW](#) -- the first community to contribute to the [Zipper Store](#) -- is a 100% open-source project. It is now available for public inspection, testing, and collaboration. Please join us on Thursday at 8am Pacific time to hear Andriy Tkachuk and Sining Wu discuss this development at our next Meet the Architect session.

Function Shipping Demo

Function shipping is an important tool that can be used to allow users to choose between typical application workflows which move data to compute and alternative workflows which move compute to data. A CORTX Engineer, Andriy Tkachuk, has created a demo and instructions to show how function shipping can be used with Motr. https://github.com/Seagate/cortx-motr/tree/main/iscservice/demo

ICYMI

Weekly round up of some things you may have missed in CORTX last week:

Recent updates to CORTX:

- There was an update in the cortx-motr repo which increased the MAX_KEY_SIZE from 32 bytes to 128 bytes https://github.com/Seagate/cortx-motr/pull/1429

- There was an update in Motr to add powertools for quick package installation and added python3-devel as a dependency. There was also an issue with the usermode only RPM where they were using "any" suffix which implies it can work on any kernel which isn't the case https://github.com/Seagate/cortx-motr/pull/1428

- There was also an update for when a HA event is received a new FID is added to a the conf cache https://github.com/Seagate/cortx-motr/pull/1427

- There was a PR in cortx-managment-portal that changed the layout of the data on the UI https://github.com/Seagate/cortx-management-portal/pull/580

- There was an issue with the "start_cluster_shutdown" between the CSM and HA https://github.com/Seagate/cortx-ha/pull/633

Some open issues/discussion:

1. There was discussion in the main cortx repo about the gui username/password https://github.com/Seagate/cortx/discussions/1400

- We have created multiple issues in the cortx repo which are labelled for the SODACODE competition you can read about the SODACODE competition here

Here are the issues we have labelled for this competition (Please feel free to add more if you would like):

There was an issue and a discussion in the cortx-s3server repos that were created for an issue with uploading large objects the user gets a 404 error https://github.com/Seagate/cortx/issues/1381 discussion.

Some Slack discussions:

1. There was a Slack discussion about SNS repair/rebalance commands in HARE https://cortxcommunity.slack.com/archives/C01952XCLCF/p1643294871931109

2. There was a discussion about the dependencies of the k8s https://cortxcommunity.slack.com/archives/C0303CVU2TH/p1643366255062149

3. There was a discussion about how encryption/decryption is done on RGW https://cortxcommunity.slack.com/archives/C02RMBU8Z7W/p1643297726495669

4. Our first PR was merged to Ceph https://cortxcommunity.slack.com/archives/C02RMBU8Z7W/p1643302910891719

5. There was another discussion on uploading data from a client node to an MGW node using the s3 API https://cortxcommunity.slack.com/archives/C02RMBU8Z7W/p1643626460114809

6. There was a discussion on debugging when replacing hardcoded user and acccess key info with custom function https://cortxcommunity.slack.com/archives/C02RMBU8Z7W/p1643631422258679

7. There was a discussion about an issue when trying to setup the k8s deployment of CORTX https://cortxcommunity.slack.com/archives/C014WFC5KEF/p1643281046271869

Best,

Rachel Novak