

EMCO 22.09 Release Features

- **EMCO in Production**

- **Monitoring Framework**

- Monitoring of EMCO Microservices with Prometheus and Grafana. Add framework in EMCO that can be used by all the microservices in EMCO. Add error related metrics.

- **Tracing for Core Components**

- Enable tracing of HTTP requests from ingress gateway to core EMCO microservices, i.e., orchestrator, rsync, clm and dcm.

- **Create experience kit with Logging, Persistence**

- Create an experience kit that provides a reference stack for EMCO logging, such as EFK and cluster-wide storage based on NFS.

- **Resiliency - Recovery from crashes**

- Validate and fix issues

- **SGX Support**

Design and document SGX Support in EMCO for CA Cert manager and also application private key security automation using SGX (Example Keys used by Istio controller). Proof of concept implementation.

- **Support for externally instantiated applications**

Design and document support for applications that are not instantiated by EMCO. Create POC and demo.

- **Outbound Connections Support in DTC**

Define API's for outbound connection support in DTC. POC for DTC and Istio Sub-controller for EMCO managed applications to communicate with applications outside of EMCO managed clusters.

- **GitOps Support**

GitOps Support Enhancements

1. Support for Git Server in EMCO
2. Anthos logical cloud support

- **Day 2 Configuration Controller (aka AppConfig Controller)**

After the application is instantiation by EMCO, some applications require application specific configurations. CR based configurations support. Code complete in 22.06. Testing, code reviews, etc.

- **Temporal Action Controller Enhancements**

Enhance API to support instantiating of workflow client and workers from TAC intents. Test Azure IOT use case with Temporal Action Controller. Updates/additions of more functionality to support various use cases.