2022-06-14 - EMCO: Open Policy Agent Service Assurance in the Telcom Edge

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Topic Description
30m
Open Policy Agent Overview

Topic Overview
Policy-driven closed-loop automation is vital for enabling AI and machine learning in 5G and edge systems. Open Policy Agent is a simple, cloud-native and domain-agnostic policy engine with a simple policy language. OPA has a small memory footprint and better performance compared to traditional policy engines. OPA’s policy language, Rego, is an intuitive and natural declarative policy language. In this talk, we will look at the use of OPA in service assurance use-case, specifically in telecom edge use.

We propose a framework for building a general-purpose policy evaluation framework for EMCO, which can monitor application-specific activities on the edge clusters and trigger actions based on policy evaluation. We are working on integrating EMCO’s temporal workflow manager as the Policy Enforcement Point (PEP). The Temporal workflow engine allows users to define, deploy and track custom workflows. EMCO’s Workflow Manager provides interfaces for defining workflow intents and managing the life cycle of workflows. The Workflow Manager with the proposed OPA-based policy controller gives a mechanism to define policy-based service assurance applications in EMCO. With standardized workflows, composite applications can be assigned with ‘policy intents’ for the policy-driven life cycle management.

Note: Speakers will NOT be available on Thursday, June 16.

Slides & Recording

The slides are here.
The session recording is here.

Agenda

Minutes

Action Items