

ABSTRACT

METHODS AND SYSTEMS FOR FACILITATING MICROSERVICES FOR CRYPTOGRAPHIC OPERATIONS

Embodiments provide methods, and systems for facilitating microservices for cryptographic operations. A method includes receiving, by a server system, a cryptographic service request from at least one application of a plurality of applications over a network communication channel. The cryptographic service request comprises a cryptographic operation to be performed and a cryptographic keys index being an identifier of the at least one application. The method includes generating, by the server system, a cryptographic operation command for the cryptographic operation. The method includes sending, by the server system, the cryptographic operation command to a Hardware Security Module (HSM) communicatively connected to the server system to perform the cryptographic operation. The method includes receiving, by the server system, a response from the HSM for the performed cryptographic operation. The method includes sending, by the server system, the response for the performed cryptographic operation to the at least one application.

FIG. 2