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Patwardhan et al.(10) **Pub. No.: US 2023/0231839 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **DISTRIBUTED AUTHENTICATION AND
AUTHORIZATION FOR RAPID SCALING OF
CONTAINERIZED SERVICES***G06F 21/45* (2013.01)*G06F 21/44* (2013.01)(52) **U.S. Cl.**CPC *H04L 63/08* (2013.01); *G06F 9/45558*(2013.01); *H04L 63/10* (2013.01); *G06F 21/45*(2013.01); *G06F 21/44* (2013.01); *G06F**2009/45587* (2013.01); *G06F 2009/45595*(2013.01); *G06F 2009/45562* (2013.01); *G06F**2009/45557* (2013.01)(71) Applicant: **Cisco Technology, Inc.**, San Jose, CA
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ABSTRACT(21) Appl. No.: **18/147,448**(22) Filed: **Dec. 28, 2022****Related U.S. Application Data**(63) Continuation of application No. 16/997,483, filed on
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Jun. 19, 2018, now Pat. No. 10,764,266.**Publication Classification**(51) **Int. Cl.***H04L 9/40* (2022.01)*G06F 9/455* (2018.01)

The disclosed technology provides solutions for performing rapid authentication and authorization for distributed containerized microservices. In some aspects, a process of the technology can include steps for: associating a service type with a set of microservices or service pods, detecting deployment of a first microservice on a first host, and receiving an authentication and authorization state from a first virtual network edge (VNE) of the first host. In some aspects, the process can further include steps for distributing the authentication state to a second VNE on a second host, wherein the authentication state is configured to facilitate authentication of one or more subsequent microservices instantiated on the second host by the second VNE. Systems and machine readable media are also provided.

