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(57) Abstract :

A software platform for automated microservice orchestration is disclosed. The platform includes an interface gateway (101), a service definition repository (102), a topology interpreter (103), an orchestration engine (104), a policy repository (105), a configuration coordinator (106), an observability fusion module (107), a remediation controller (108), and an execution fabric connector (109) for controlling managed microservice instances (110). The platform derives dependency-aware execution plans, validates configuration compatibility, applies policy-governed deployment decisions, correlates runtime telemetry, and performs adaptive scaling and context-sensitive remediation for distributed microservice environments.

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