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(57) Abstract :

An automated configuration management system for cloud applications comprises a configuration intake layer (101), a normalization engine (102), a dependency graph manager (103), a policy evaluation module (104), an orchestration controller (105), cloud application targets (106), a runtime verification module (107), and a version trace repository (108). Configuration artifacts from heterogeneous sources are transformed into canonical entities, dependency relationships are modeled, proposed changes are validated against operational and policy constraints, approved updates are sequenced for controlled deployment, and observed runtime states are compared with intended states to detect and classify drift with lifecycle traceability.

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