

IOWN INTEGRAL

NTT R&D FORUM 2024

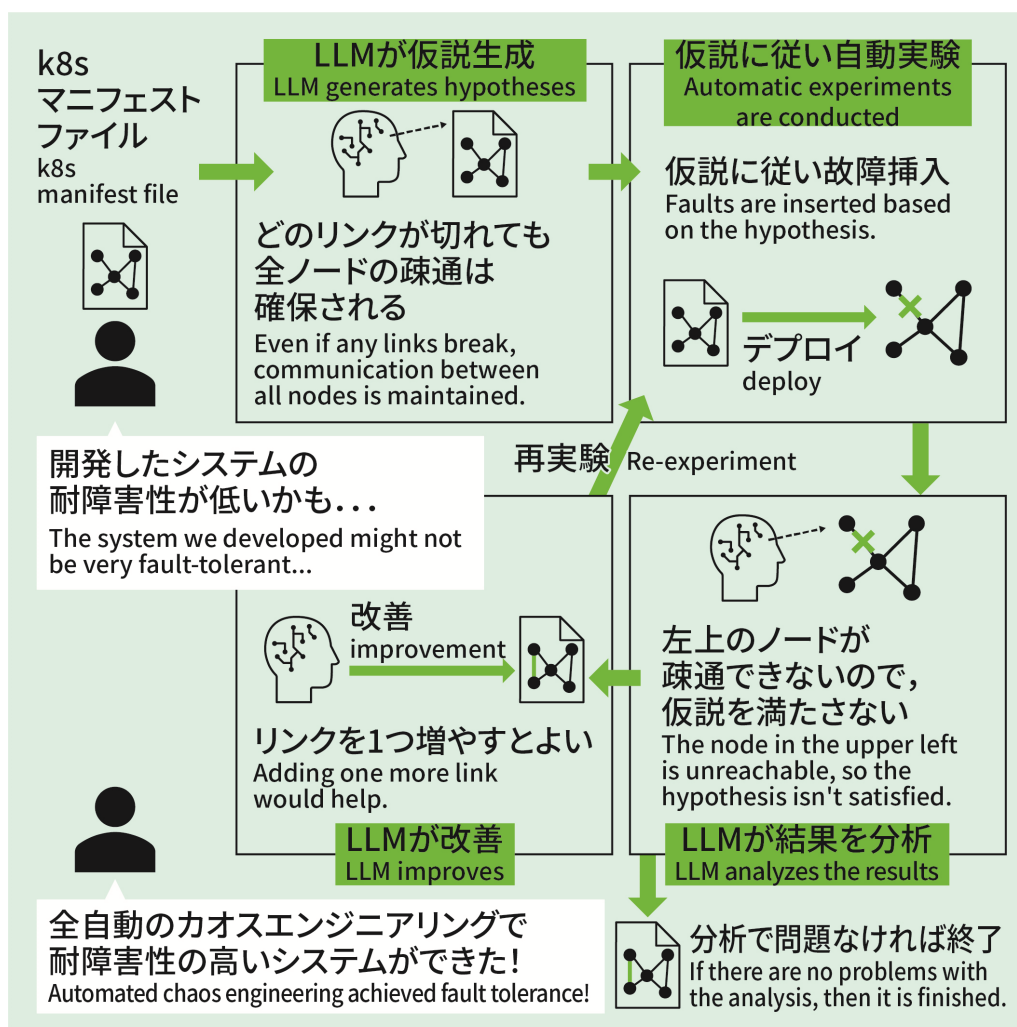
DEVELOPMENT

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NW x Generative AI: Chaos engineering automation technology

Automate the process of fault tolerance testing in
system development using LLMs

#Productivity Improvement #Business Resilience



///Technical Issue

Current manual testing and bug fixing increase costs and risk of residual defects.

///Research Goal

Enhancing system reliability and reducing test efforts through comprehensive, automated chaos engineering.

---Technology

- Using LLM, we have independently realized agents with multiple roles. Agents cooperate with each other to perform fully automated, valid and comprehensive testing.
- We have defined "guard rails" to ensure that agents execute multiple steps of testing. This enables highly reliable testing.

---Novelty

The world's only technology that combines LLM and chaos engineering to fully automate comprehensive and highly reliable fault-tolerance testing.

---Applicable Business

Applied to the automation of testing to improve the fault tolerance of systems in the information and communications industry (around 2026). [market size: 1.9 billion USD]