

Case Study



DevOps & CI/CD Discovery for Virtual Reference Platform

A top-tier global provider of industrial automation and semiconductor technology needed a scalable, automated DevOps and CI/CD framework aligned with virtual platform-based development. Through a structured assessment and roadmap-driven approach, The Judge Group enabled the company to reduce implementation risk, improve cross-team alignment, and accelerate readiness for future virtualized development and testing initiatives.

THE CHALLENGE

Establishing a structured DevOps strategy while aligning with virtual platform-based development

The company required a comprehensive discovery engagement to define a scalable CI/CD and DevOps strategy for applications running on a Virtual Reference Platform. The objective was to assess the current development ecosystem while ensuring seamless integration with virtualized environments capable of supporting complex workloads.

Key challenges included limited visibility into existing CI/CD pipelines, fragmented automation practices, and unclear integration readiness with the virtual platform. The company also needed to assess the feasibility of test automation on virtual SoCs, containerized deployments, and API-driven orchestration, while addressing risks related to performance, scalability, and compliance.

Adding to the complexity was the need to balance stakeholder expectations across engineering, QA, DevOps, and product teams, all while defining a future-ready architecture and execution roadmap.

THE SOLUTION

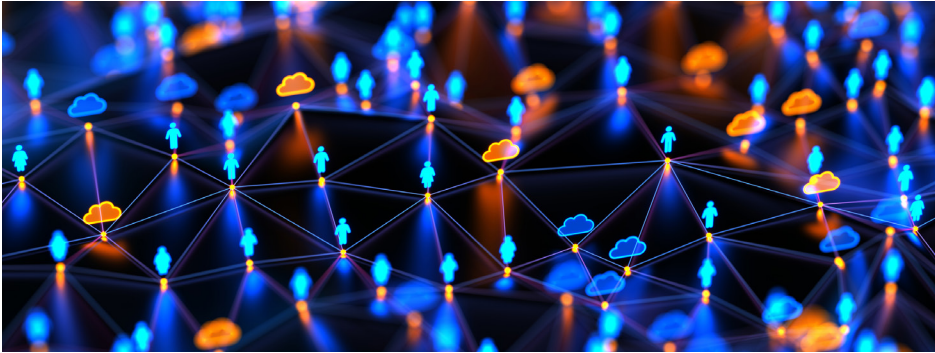
Structured discovery, assessment, and roadmap definition for CI/CD and DevOps transformation

Judge led a structured discovery process that included stakeholder workshops and a detailed assessment of the company's development, CI/CD, and infrastructure landscape. The evaluation focused on integration readiness with the Virtual Reference Platform, current automation maturity, and tooling alignment.



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Priority use cases were identified and analyzed for feasibility, with a particular focus on automation, API integration, containerization, and virtual SoC-based testing. Based on these findings, Judge proposed a high-level target architecture, a standardized CI/CD toolchain, and governance best practices. The engagement concluded with the delivery of a phased implementation roadmap outlining timelines, resource requirements, and effort estimates to guide execution.



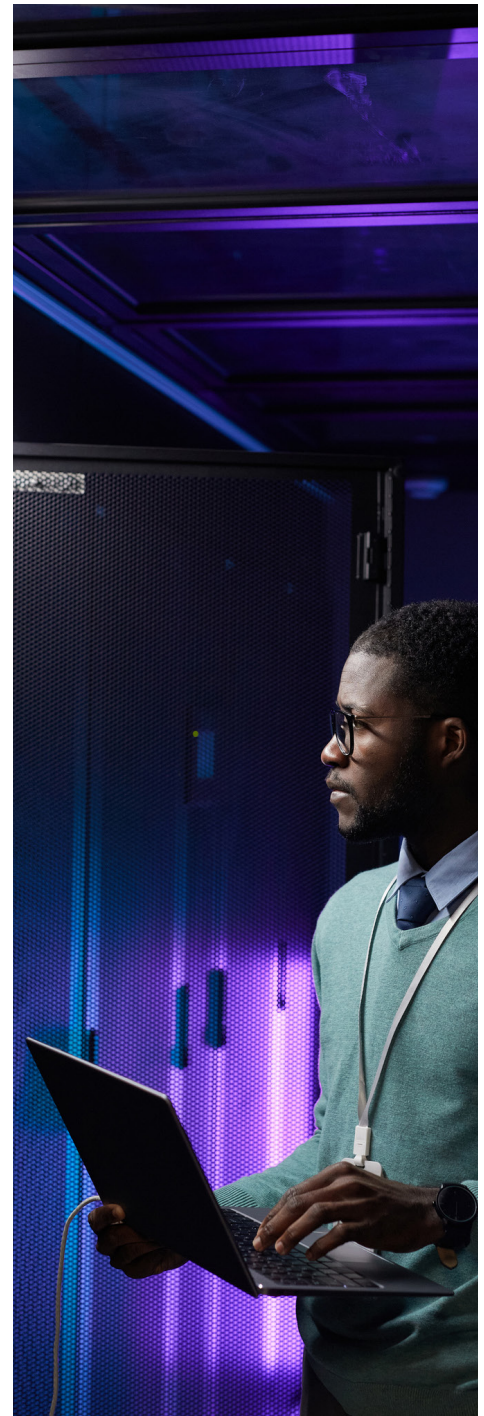
THE RESULT

Clear transformation roadmap, reduced risk, and accelerated DevOps readiness

The discovery engagement provided the company with complete visibility into its existing DevOps and CI/CD ecosystem, while identifying critical gaps and opportunities for optimization. The defined CI/CD architecture and toolchain strategy aligned closely with virtual platform capabilities, ensuring scalability and long-term readiness.

Early feasibility validation reduced downstream implementation risk by confirming viable integration approaches and automation strategies. With a prioritized use case catalog and a phased execution roadmap in place, the company gained a clear, actionable path forward—accelerating decision-making and reducing time to implementation.

The outcome was a comprehensive and practical blueprint for DevOps transformation, positioning the client to confidently transition toward an automated, scalable, and high-performance CI/CD ecosystem aligned with virtualized development environments.



Looking to bring structure and scalability to your DevOps strategy? Connect with Judge today start building a roadmap tailored to your environment.

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