

Day 1: Release Readiness in Cloud-Native CI/CD

How organizations prepare applications, infrastructure, and teams for stable production deployments

Performance, Security, and Readiness as Non-Negotiables



95%+ of organizations test performance under expected/peak loads: 53.9% Always, 41.2% Often

also address vulnerabilities before release: 52.6% Very Effectively, 42.8% Effectively

Nearly 94% automate dependency and configuration management, with 57.2% fully automated.

Over 93% conduct UAT before releases: 46.9% Always, 46.3% Frequently

Implication: The overwhelming majority of teams build confidence through rigorous testing, automation, and UAT—leaving the small minority that lag here especially vulnerable

Infrastructure Confidence Fueled by Automation and Consistency

90%+ automate provisioning: 51.2% Fully, 39.3% Mostly

94.9% feel confident in infrastructure scalability: 53.4% Very confident, 41.5% Confident

92%+ say environment configurations are effective or very effective: 47.2% Effectively, 45% Very Effectively

94%+ report staging, testing, and production environments are: 55.3% Completely Consistent, 39.3% Mostly Consistent

Implication: IaC, containerization, and standardized workflows have created a strong foundation, but the small portion of teams lacking parity or automation face bottlenecks that can derail reliability and speed.

Deployment Maturity Accelerates Release Velocity



86%+ have fully or mostly automated deployments.

Nearly two-thirds deploy daily or faster:

38.8% Daily, 24.9% Multiple times per day



94% report thorough validation before go-live

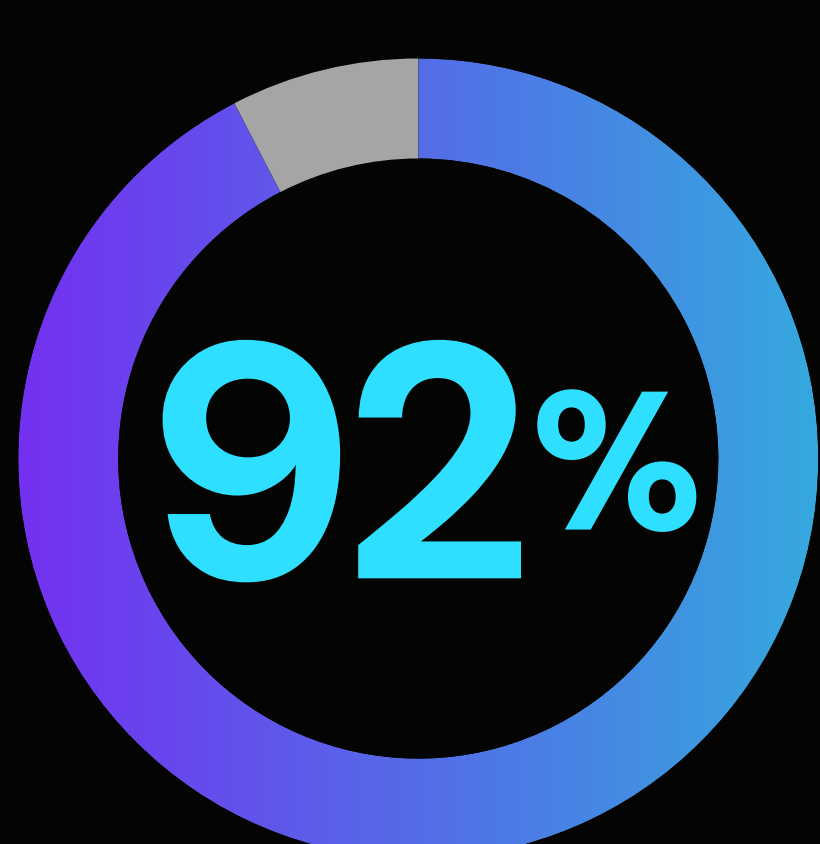
48.8% Completely, 45.3% Mostly



But 25% still face frequent or constant downtime from deployments

Implication: Downtime remains a key pain point for nearly a quarter of teams, pointing to the need for zero-downtime techniques (blue-green, canary, feature flags) to match velocity with reliability.

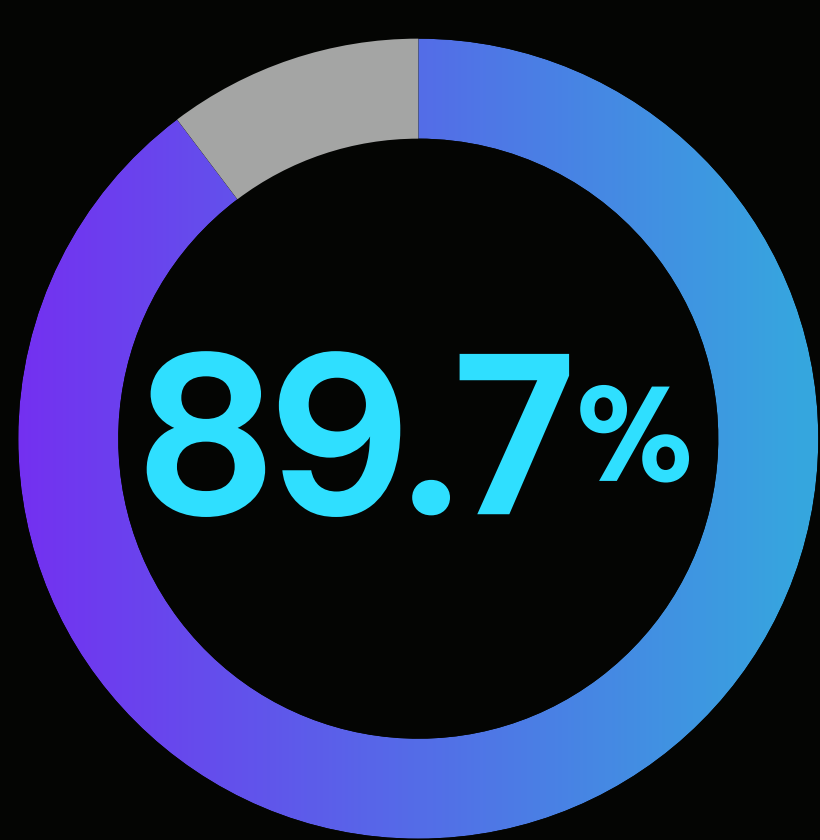
Observability Powers Stability Beyond the Release



92% say environment configurations are effective or very effective.

93%+

track performance metrics continuously or frequently.



89.7% say environment configurations are effective or very effective.

92%+

rely on dashboards frequently or continuously after release

Implication: Observability is fragmented yet essential, with AI playing an increasingly significant role. Security of infrastructure remains a multidimensional challenge requiring both skilled teams and automated solutions.