



DevOps KPIs

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Category	KPI	What does it measure?	How to Calculate?
Deployment Efficiency	Deployment Frequency	Frequency of code deployment	Count deployments over a specified time period
	Change Volume	Number of new user stories or code changes per release	Count changes in each release
	Deployment Time	Duration to roll out deployments once approved	Time taken from approval to complete deployment
Quality and Stability	Change Failure Rate	Percentage of deployments causing failure in production	Number of failed deployments / Total deployments
	Failed Deployments	Rate of unsuccessful application changes and releases	Proportion of deployments leading to issues or rollbacks
	Defect Volume and Escape Rate	Volume of bugs generated by a change; rate at which defects are identified by end-users	Count of bugs per deployment; defects found post-deployment / Total defects
	Defect Escape Rate	Frequency of defects identified post-deployment	Defects found post-deployment / Total defects

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Security and Compliance	Rate of Security Test Passes	Frequency of successful security tests during the build phase	Proportion of builds passing security tests
	SLA Compliance	Adherence to uptime and availability goals in SLAs	Percentage of time services meet uptime and availability criteria
	Application Performance	Performance metrics under varying user loads	Monitor server performance metrics like CPU usage, memory consumption
	Automated Tests Failure Rate	Rate of failure in automated tests	Number of failed automated tests / Total automated tests
	Vulnerability Metrics	Measures of health, efficacy, and security of operations	Various metrics including time to detect and mitigate vulnerabilities
	Infra/Container Scans	Verification of container images for vulnerabilities	Assessment of container images for vulnerabilities
Process and Workflow	Change Lead Time	Time taken for a change to go from inception to production	Duration from change initiation to deployment in production
	Unplanned Work	Amount of work not initially planned in the DevOps cycle	Compare planned versus actual work required for a release
	Feature Prioritization	Assessment of end-user utilization of features	Usage metrics of new features post-deployment
	Lead Time	Duration for a change to occur from initiation to deployment	Time from idea initiation to deployment and production