Continuous Delivery Reliable Software Releases Through Build Test And Deployment Automation Jez Humble

Continuous Delivery Reliable Software Releases Through Build Test And Deployment Automation Jez Humble Continuous Delivery Reliable Software Releases Through Build Test and Deployment Automation Jez Humble 1 This article summarizes key concepts from Jez Humbles book Continuous Delivery Reliable Software Releases Through Build Test and Deployment Automation The book presents a comprehensive guide to implementing continuous delivery CD practices emphasizing the critical role of automation in achieving fast frequent and reliable software releases 2 The Challenges of Traditional Software Delivery Slow and Inconsistent Releases Traditional software development models often lead to long release cycles resulting in delays and difficulty adapting to changing requirements High Failure Rates Manual processes introduce human errors increasing the risk of release failures and costly rollbacks Limited Feedback The long release cycles hinder gathering rapid feedback from users leading to delayed problem identification and resolution Low Deployment Frequency The fear of release failures discourages frequent deployments resulting in slower innovation and missed opportunities 3 The Principles of Continuous Delivery Automate Everything Automate all aspects of the delivery process from building and testing to deployment and monitoring Focus on Quality Emphasize quality throughout the entire development lifecycle integrating testing and feedback at every stage Continuous Improvement Continuously analyze and improve the delivery process identifying bottlenecks and optimizing workflows Small Batches Break down large projects into smaller manageable batches facilitating faster iteration and feedback Deploy Frequently Deploy code to production as often as possible reducing risk and 2 enabling faster feedback loops 4 The Key Elements of a Continuous Delivery Pipeline Version Control A centralized repository for code management enabling collaboration and tracking changes Continuous Integration Automated build and testing process triggered by code changes ensuring code quality and early detection of issues Automated Testing Comprehensive testing suite encompassing unit integration functional and performance tests

verifying software functionality and performance Deployment Automation Scripted deployment process enabling seamless and repeatable deployments to various environments Infrastructure as Code Configuration and management of infrastructure using code ensuring consistency and reproducibility Monitoring and Feedback Continuous monitoring of applications in production providing real time insights and enabling rapid problem resolution 5 The Benefits of Continuous Delivery Faster Time to Market Reduced release cycles enable organizations to deliver new features and functionalities quickly gaining a competitive advantage Increased Software Quality Automated testing and continuous integration ensure higher code quality and fewer defects Reduced Release Risk Automated deployments and frequent releases minimize the risk of release failures and reduce the impact of potential issues Improved Collaboration The process promotes collaboration between development and operations teams fostering a culture of shared responsibility Increased Customer Satisfaction Faster delivery of valuable features and timely bug fixes enhance customer satisfaction and loyalty 6 Implementing Continuous Delivery Start Small Begin with small incremental changes to the delivery process gradually increasing the scope of automation Focus on Value Prioritize features and improvements that provide the most value to customers Measure and Improve Track key metrics related to release frequency lead time and failure rates to identify areas for improvement Engage Stakeholders Communicate the benefits of CD and involve stakeholders in the process to ensure buyin and support 3 7 Conclusion Continuous delivery is a transformative approach to software development enabling organizations to release software rapidly reliably and frequently By embracing automation focusing on quality and continuously improving the delivery process organizations can unlock significant benefits including faster time to market increased software quality and improved customer satisfaction Further Reading Continuous Delivery Reliable Software Releases Through Build Test and Deployment Automation by Jez Humble and David Farley The Phoenix Project A Novel About IT DevOps and Helping Your Business Win by Gene Kim Kevin Behr and George Spafford Note This article provides a highlevel overview of the key concepts from Continuous Delivery It is recommended to read the book for a more comprehensive and detailed understanding of the subject

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distributed systems have become more fine grained as organizations shift from code heavy monolithic applications to smaller self contained microservices but developing these systems brings its own set of problems with lots of examples and practical advice this expanded second edition takes a holistic view of the topics system architects and administrators must consider when building managing and evolving microservices architectures author sam newman provides you with a firm grounding in the concepts while diving into the latest solutions for modeling integrating testing deploying and monitoring your own autonomous services through real world examples you ll learn how organizations worldwide are getting the most out of these architectures microservices technologies are moving quickly this book brings you up to speed get new information on user interfaces container orchestration and serverless use microservices to align system design with your organization s goals explore options for integrating a service with the rest of your system take an incremental approach when splitting monolithic codebases deploy individual microservices through continuous integration examine the complexities of testing and monitoring distributed services manage security with expanded content around user to service and service to service models understand the challenges of scaling microservices architectures

increase profitability elevate work culture and exceed productivity goals through devops practices more than ever the effective management of technology is critical for business competitiveness for decades technology leaders have struggled to balance agility reliability and security the consequences of failure have never been greater whether it s the healthcare gov debacle cardholder data breaches or missing the boat with big data in the cloud and yet high performers using devops principles such as google amazon facebook etsy and netflix are routinely and reliably deploying code into production hundreds or even thousands of times per day following in the footsteps of the phoenix project the devops handbook shows leaders how to replicate these incredible outcomes by showing how to integrate product management development qa it operations and information security to elevate your company and win in the marketplace

in this ibm redpaper publication we focus on the importancequality this paper explains how this testing can be achieved only in an effective and efficient way by autenable such automation we specifically focus on galasa galasa is an open source deep integration test framework for hybrid cloud applications that allows teams to automate tests to run as part of a devops pipeline galasa was built as an integration test framework to test applications spanning multiple platforms as part of a hybrid multi cloud it also integrates all the test tools that are needed to test such an application this feature gives you a single test catalog single endpoint to run tests and a single ui to review the reports from those tests these enterprise level features are key to unlocking the value of your automation and allow you to deliver your devops journey

this book constitutes the revised selected papers of the scientific satellite events that were held in conjunction with the 16th international conference on service oriented computing icsoc 2018 held in hangzhou china in november 2018 the icsoc 2018 workshop track consisted of six workshops on a wide range of topics that fall into the general area of service computing a special focus this year was on internet of things data analytics and smart services first international workshop on data driven business services ddbs first international workshop on networked learning systems for secured iot services and its applications nls4iot 8th international workshop on context aware and iot services ciots third international workshop on adaptive service oriented and cloud applications asoca2018 third international workshop on iot systems for context aware computing isycc first international workshop on ai and data mining for services adms

this is a how to manual and github repo for onboarding rag systems in compliance with the ai act iso 42001 business leaders want to harness the efficiency gains ai promises and invest heavily to transform raw ai ideas like chat with your document into trusted business tools that improve team performance but realising ai s promised gains and maximising your roi demands speed your competitors are already deploying ai tools and every month of delay means falling further behind however moving fast is risky because ai behaves unpredictably unlike traditional software that follows strict rules ai is non deterministic meaning it doesn t always give the same answer to the same question this inherent inconsistency means you can t predict outputs with certainty and the output quality often degrades over time as the model drifts further out of alignment with your policies to realise roi you need to deploy and correct quickly but you re blocked by three momentum killing obstacles 1 the risk obstacle hits you two ways resilience risk catastrophic technical or operational failures that threaten the cia of your data and trust risk the silent killer where your ai works technically but produces subtle hallucinations and half correct interpretations that go unnoticed until clients start complaining and adoption dies 2 the regulatory obstacle buries you in walls of regulatory text and vague terms nobody s quite sure what art 25 1 substantial modification means so you end up talking about compliance rather than realising roi 3 the ethical obstacle is mandatory even if you are not subject to the ai act ignore job preservation and workforce impact and you ll face internal resistance that kills adoption before it begins the ai onboarding capability and its supporting github repo is designed to maximise business value by deriving speed it brings grc to life in an ai grc production line that addresses the three biggest threats 1 for the risk obstacle ai informs business decisions and influences client responses as such the capability regards all ai systems as high risk not because the ai act says so but because they could cause reputational damage it voluntarily wraps both provider art 16 and deployer art 26 obligations in a json risk and control framework with pre validated resilience and trust risks engineers get the highest risk standards upfront so they can start building immediately instead of waiting weeks for security to tell them what to do 2 for the regulatory obstacle the production line links your controls straight to the ai act and iso requirements when auditors show up the evidence is already there no more pre adult scramble for evidence 3 for the ethical obstacle the capability bakes a fundamental rights environmental sustainability and a job preservation assessment into the production line guaranteeing your ai enhances what your team can do rather than replacing who they are the ai grc production line is powered by the define build test comply cadence that translates vague compliance into concrete requirements where job preservation and human oversight are technically enforced using golden datasets to catch hallucinations and auto linking evidence to ai act and iso requirements supporting the

cadence is a ready to adopt approach when companies onboard ai they make different architectural and governance choices instead of trying to accommodate every choice and becoming less detailed in the process the capability chooses one like implement intended use with white and blacklist prompts if you agree with the choice you inherit controls and tests to implement it if not simply unplug the choice from the json framework adapt it and plug it back in the ai onboarding capability and its supporting github repo turns grc into a competitive advantage delivering speed without compromising safety

ben is stuck a development lead with a strong vision for how the intersection of development and operations at his office can be improved he can t help but feel overwhelmed and discouraged by common problems such as slow turnaround time rushed and ineffective handover documentation mounting technical debt and a lagging qa process what steps should ben take to build the momentum needed to create positive changes within his company in this unique business novel by dave harrison and knox lively two devops professionals with years of diverse experience in the industry you follow ben as he solves work frustrations in order to adopt agile devops and microservices architectures for his organization achieving devops addresses the now what moment many devops professionals face on their journey the story provides you with the knowledge you need to navigate the internal political waters build management support show measurable results and bring devops successfully into your organization come away with practical lessons and timeless business concepts you ll know how to effect change in a company from the bottom up gain support and instill a pattern of progressively building on success experience ben s progress vicariously in achieving devops and bridge the gap between inspiration and the implementation of your own devops practices who this book is for those serving as change agents who are working to influence and move their organizations toward a devops approach to software development and deployment those working to effect change from the bottom up such as development leads qa leads project managers and individual developers and it directors ctos and others at the top of an organization who are being asked to lend their support toward devopsimplementation efforts

chapter 7 application management integrated logging container logs are transient aggregated logging kibana some general aggregated kibana queries simple metrics resource scheduling quotas quota scopes quota enforcement limit ranges and requests versus limits multiproject quotas applications eviction and pod rescheduling overcommit auto pod scaling java based application monitoring and management using jolokia summary afterword what we

covered final words appendix a openshift and 12 factor apps codebase dependencies configuration backing services

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