

value stream mapping devops

Value Stream Mapping DevOps: Unlocking Efficiency in Software Delivery

value stream mapping devops is becoming an indispensable practice for organizations striving to enhance their software development lifecycle. As DevOps continues to evolve, blending development and operations to deliver faster and more reliable software, understanding every step of the process is crucial. Value stream mapping (VSM) offers a powerful way to visualize, analyze, and optimize the entire flow of work from idea to production. If you want to reduce bottlenecks, eliminate waste, and accelerate delivery, diving into value stream mapping within a DevOps context is a smart move.

What is Value Stream Mapping in DevOps?

At its core, value stream mapping is a Lean management technique that helps teams visualize all the steps involved in delivering a product or service. Originally developed for manufacturing, the concept has found a perfect fit in software development and IT operations. When applied to DevOps, value stream mapping focuses on mapping the flow of value through the software delivery pipeline—from initial requirements gathering to coding, testing, deployment, and monitoring.

Unlike traditional process mapping, VSM captures not only the sequence of activities but also highlights wait times, handoffs, and potential sources of waste. This holistic view enables DevOps teams to identify inefficiencies such as redundant approvals, manual handoffs, or prolonged testing cycles that slow down delivery.

Why Value Stream Mapping Matters in DevOps

DevOps aims to bridge the gap between development and operations, promoting collaboration and continuous delivery. However, without a clear understanding of how work flows through the system, inefficiencies can creep in unnoticed. Value stream mapping:

- **Clarifies the end-to-end process:** Teams gain visibility into every step, including those outside their immediate control.
- **Identifies waste and delays:** By mapping lead times and wait times, organizations can pinpoint bottlenecks.
- **Aligns teams around common goals:** Shared understanding fosters better collaboration between developers, testers, and operations.
- **Supports continuous improvement:** Insights from VSM feed into iterative process enhancements.
- **Measures flow metrics:** VSM provides data to track improvements over

time, such as cycle time and deployment frequency.

How to Conduct Value Stream Mapping in DevOps

Performing a value stream mapping exercise within a DevOps environment involves several key phases. While the exact approach varies depending on team size and complexity, these steps provide a solid framework.

1. Define the Scope and Objectives

Start by selecting a specific value stream to analyze. This might be a feature development process, a release pipeline, or an incident resolution workflow. Clearly define the start and end points—for example, from feature request submission to production deployment. Establish what you want to achieve with the mapping exercise, such as reducing cycle time or improving deployment frequency.

2. Gather Cross-Functional Team Members

Value stream mapping requires input from diverse roles including developers, testers, operations engineers, product owners, and sometimes business stakeholders. Their collective knowledge ensures an accurate and comprehensive map.

3. Map the Current State

Document each step in the process as it currently exists. This includes all activities, decision points, handoffs, and delays. Visual tools like whiteboards, sticky notes, or digital VSM software can help capture and organize information. Be sure to note:

- Time taken for each step (processing time)
- Waiting or idle time between steps
- Resources involved
- Information flows and approvals

4. Analyze the Map to Identify Waste

Once the current state is visualized, look for common sources of inefficiency such as:

- Excessive handoffs causing delays
- Manual interventions prone to errors
- Long wait times during testing or approvals
- Rework loops due to poor quality
- Lack of automation in deployment

This is the stage where Lean principles come into play to eliminate or reduce non-value-adding activities.

5. Design the Future State

With insights in hand, design an improved value stream that streamlines activities and minimizes waste. This might involve automating testing, introducing continuous integration/continuous delivery (CI/CD) pipelines, reducing approval layers, or reorganizing teams to improve communication.

6. Implement Improvements and Monitor

Put the future state into practice incrementally. Use DevOps tools and practices such as automated builds, containerization, and infrastructure as code to support the optimized flow. Continuously monitor key performance indicators (KPIs) like lead time, deployment frequency, and mean time to recover (MTTR) to gauge success.

Key Metrics and Tools for Value Stream Mapping in DevOps

Quantifying the software delivery process is essential to making informed improvements. Here are some important metrics and tools that complement value stream mapping efforts:

Important Flow Metrics

- **Lead Time:** Total time from work starting to delivering value.
- **Cycle Time:** Time taken to complete a specific stage or task.
- **Deployment Frequency:** How often new releases are deployed to production.
- **Change Failure Rate:** Percentage of changes causing incidents.
- **Mean Time to Recovery (MTTR):** Time to restore service after failure.

Tracking these metrics before and after VSM initiatives helps validate impact.

Popular Tools for Mapping and Monitoring

- **Lucidchart, Miro, or Microsoft Visio:** For creating visual value stream maps collaboratively.
- **Jira or Azure DevOps:** To gather real-time data on task status and flow.
- **GitLab or Jenkins:** CI/CD platforms that provide deployment and pipeline metrics.
- **Value Stream Management Platforms (e.g., Tasktop, Plutora):** Specialized tools offering end-to-end visibility and analytics.

Leveraging these tools accelerates the mapping process and provides actionable insights.

Challenges and Best Practices When Applying Value Stream Mapping in DevOps

While value stream mapping offers great benefits, organizations may encounter obstacles when integrating it into DevOps workflows. Understanding common challenges and applying best practices can make the journey smoother.

Challenges

- **Complexity of modern pipelines:** Microservices, cloud environments, and multiple tools can complicate mapping efforts.
- **Siloed teams:** Lack of collaboration between development and operations hampers holistic visibility.
- **Data accuracy:** Gathering precise timing and flow data is often difficult.
- **Resistance to change:** Teams may be hesitant to alter established processes.

Best Practices

- **Start small:** Begin with a focused value stream before expanding.
- **Engage all stakeholders:** Include representatives from every part of the value chain.
- **Use real data:** Combine anecdotal observations with actual metrics.
- **Promote a culture of continuous improvement:** Encourage experimentation and learning.
- **Iterate regularly:** Value stream mapping is not a one-time activity but an ongoing practice.

Value Stream Mapping as a Catalyst for DevOps Transformation

Organizations embarking on DevOps transformations often find value stream mapping to be a critical catalyst. By shedding light on the end-to-end flow of software delivery, VSM empowers leaders to make data-driven decisions about where to invest in automation, training, or process redesign.

Moreover, it fosters a shared language across teams. When everyone understands how their work contributes to overall value and where delays occur, collaboration naturally improves. This alignment is essential for achieving the goals of DevOps: faster delivery, higher quality, and greater customer satisfaction.

In essence, value stream mapping is more than a visual tool—it's a mindset that encourages transparency, continuous feedback, and relentless pursuit of flow efficiency.

By integrating value stream mapping into DevOps practices, organizations can transform their software delivery pipelines into well-oiled machines. The insights gained not only reduce waste and delays but also enable teams to adapt quickly in a fast-changing technology landscape. Whether you're just starting your DevOps journey or looking to optimize mature processes, value stream mapping offers clarity and direction that can unlock significant business value.

Frequently Asked Questions

What is value stream mapping in DevOps?

Value stream mapping in DevOps is a visualization tool used to analyze and optimize the flow of processes involved in software delivery, from development to deployment, aiming to identify bottlenecks and improve efficiency.

How does value stream mapping benefit DevOps teams?

Value stream mapping helps DevOps teams by providing clear insights into the entire software delivery process, enabling them to identify waste, reduce cycle times, improve collaboration, and accelerate value delivery to customers.

What are the key steps to create a value stream map in DevOps?

Key steps include identifying the value stream, mapping all process steps from code commit to deployment, collecting relevant data (such as lead time and wait time), analyzing bottlenecks, and implementing improvements based on insights.

Which metrics are commonly used in value stream mapping for DevOps?

Common metrics include lead time, cycle time, wait time, deployment frequency, change failure rate, and mean time to recovery (MTTR), which help measure efficiency and identify areas for improvement.

Can value stream mapping be integrated with continuous integration/continuous delivery (CI/CD) pipelines?

Yes, value stream mapping complements CI/CD pipelines by visualizing the flow of work through these pipelines, helping teams identify delays, optimize automation, and enhance overall delivery speed and quality.

What challenges might teams face when implementing value stream mapping in DevOps?

Challenges include accurately capturing all process steps, overcoming organizational silos, ensuring data accuracy, and maintaining ongoing updates to the value stream map as processes evolve.

How does value stream mapping support DevOps transformation initiatives?

Value stream mapping provides a baseline understanding of current processes, highlights inefficiencies, and guides targeted improvements, making it a critical tool for successful DevOps transformation and cultural change.

Are there any tools available to assist with value stream mapping in DevOps?

Yes, tools like Microsoft Visio, Lucidchart, Miro, and specialized DevOps platforms such as Tasktop Viz and Plutora help create and analyze value stream maps effectively.

How often should value stream mapping be updated in a DevOps environment?

Value stream mapping should be revisited regularly, often quarterly or after significant process changes, to ensure it reflects the current state and continues to drive process improvements in the DevOps lifecycle.

Additional Resources

Value Stream Mapping DevOps: Enhancing Software Delivery Efficiency

value stream mapping devops is increasingly recognized as a vital technique for organizations striving to optimize their software delivery processes. In the dynamic realm of DevOps, where rapid development and continuous deployment are paramount, understanding and refining every stage of the delivery pipeline is crucial. Value stream mapping (VSM) offers a systematic approach to visualize, analyze, and improve the flow of value from idea to production, making it an indispensable tool for DevOps teams aiming to minimize waste, reduce delays, and enhance overall efficiency.

Understanding Value Stream Mapping in the Context of DevOps

Originating from Lean manufacturing principles, value stream mapping is a visual tool designed to represent the flow of materials and information required to bring a product or service to the customer. When adapted to software development and DevOps, value stream mapping focuses on the sequence of activities involved in delivering software features, from initial concept through coding, testing, deployment, and maintenance.

In DevOps, the value stream encompasses not just development but also operations, quality assurance, and security processes. Mapping this stream enables teams to identify bottlenecks, redundancies, and non-value-adding steps that may slow down delivery or increase costs. Unlike traditional process diagrams, VSM captures both the process steps and the metrics associated with each, such as cycle time, wait time, and failure rates, providing a comprehensive overview of the workflow.

The Role of Value Stream Mapping in DevOps Transformation

As organizations embrace DevOps to accelerate software delivery and improve collaboration, value stream mapping serves as a diagnostic and strategic tool. It aligns with key DevOps goals by:

- **Identifying Waste:** VSM highlights delays and unnecessary handoffs that contribute to lead time and reduce responsiveness.
- **Improving Flow:** By visualizing dependencies and queues, teams can reorganize workflows to enable continuous integration and continuous deployment (CI/CD).
- **Enhancing Collaboration:** The mapping process fosters cross-functional communication, breaking down silos between development, operations, and other stakeholders.
- **Data-Driven Decision Making:** Metrics captured during value stream analysis allow for objective assessment of improvement initiatives.

In essence, value stream mapping in DevOps is not merely a documentation exercise but a catalyst for cultural change and process innovation.

Key Components and Metrics in Value Stream Mapping for DevOps

Effective value stream mapping in DevOps hinges on accurately capturing both the qualitative and quantitative aspects of the software delivery lifecycle. Key components typically include:

1. Process Steps

Each activity from requirement gathering to deployment and monitoring is documented, showing how work progresses through the pipeline. This often includes:

- Planning and backlog refinement
- Development and code review
- Automated and manual testing
- Deployment and release management
- Operational support and incident management

2. Flow of Information and Materials

VSM tracks the movement of code, documentation, and feedback between teams or systems. This highlights dependencies and communication pathways critical for smooth delivery.

3. Lead Time and Cycle Time

Lead time measures the total time from request to delivery, while cycle time focuses on the active work periods within that span. These metrics reveal delays and help prioritize improvements.

4. Work In Progress (WIP) and Queues

High WIP or long queues often indicate bottlenecks. Monitoring these helps balance workloads and maintain steady flow.

5. Quality Indicators

Defect rates, failure demand, and rework percentages provide insight into process quality and stability.

Practical Applications of Value Stream Mapping in DevOps Environments

Organizations implementing DevOps can leverage value stream mapping in several practical ways:

Optimizing CI/CD Pipelines

Mapping the continuous integration and deployment stages uncovers unnecessary steps or manual interventions that slow down release cadence. For example, a VSM exercise might reveal that code merges are delayed due to inconsistent testing practices, prompting investment in automated testing tools.

Improving Incident Response

By mapping the incident management process, teams can identify delays in

detection, escalation, or resolution, enabling faster recovery and improved system reliability.

Aligning Business and IT Objectives

Value stream mapping supports strategic alignment by linking software delivery activities with business outcomes. This transparency helps prioritize features and infrastructure investments that deliver the highest value.

Challenges and Considerations When Implementing Value Stream Mapping in DevOps

While the benefits of value stream mapping are substantial, organizations may encounter challenges, including:

- **Complexity of Modern Toolchains:** DevOps environments often involve numerous integrated tools and platforms, making comprehensive mapping difficult without automation.
- **Cross-Functional Collaboration Barriers:** Engaging diverse teams in the mapping process requires careful facilitation to overcome silos and varying priorities.
- **Data Accuracy and Consistency:** Capturing reliable metrics demands disciplined tracking and reporting mechanisms, which may be lacking in immature processes.
- **Resistance to Change:** Identifying inefficiencies often necessitates process changes, which can meet resistance from stakeholders accustomed to established workflows.

Addressing these challenges involves cultivating a culture of continuous improvement and leveraging tooling that integrates seamlessly with existing DevOps practices.

Emerging Tools and Techniques Supporting Value Stream Mapping in DevOps

The intersection of value stream mapping and DevOps has spurred the development of specialized tools that automate data collection, visualize

workflows, and provide actionable insights. Examples include:

- **Value Stream Management Platforms:** These platforms integrate with source control, CI/CD, and monitoring tools to offer real-time mapping and analytics.
- **Process Mining Software:** By analyzing event logs, process mining tools reconstruct actual workflows, revealing deviations from intended processes.
- **Dashboard and Reporting Solutions:** Custom dashboards aggregate key performance indicators relevant to value streams, enabling proactive management.

Using these technologies, DevOps teams can maintain up-to-date value stream maps and continuously identify areas for enhancement.

Comparative Insights: Value Stream Mapping Versus Other Process Improvement Techniques

While value stream mapping is a powerful tool, it is one among several methodologies aimed at process optimization. Comparing it with alternatives provides perspective:

- **Process Flowcharts:** Traditional flowcharts depict process steps but often lack the metric-driven focus of VSM.
- **Kanban Boards:** Kanban visualizes work items and flow but is task-focused rather than analyzing the entire value chain.
- **Root Cause Analysis (RCA):** RCA investigates specific problems, whereas VSM presents a broader systemic view.
- **Lean Six Sigma:** Combines statistical analysis with process improvement; VSM is often a component within Lean Six Sigma initiatives.

Value stream mapping's unique strength lies in its dual focus on process visualization and quantitative measurement, making it especially suited for complex DevOps pipelines.

Future Trends in Value Stream Mapping for DevOps

As DevOps matures and enterprises seek greater agility, value stream mapping is poised to evolve alongside. Anticipated trends include:

- **AI-Driven Analytics:** Incorporating artificial intelligence to predict bottlenecks and recommend optimizations based on historical data.
- **Integration with Agile Metrics:** Combining VSM with Agile performance indicators to create a holistic view of delivery health.
- **Expanded Scope Beyond IT:** Extending value streams to include customer feedback loops and business operations for end-to-end value optimization.
- **Continuous Value Stream Management:** Moving from static mapping exercises to ongoing, automated monitoring and adjustment.

These developments promise to deepen the utility of value stream mapping within increasingly complex DevOps ecosystems.

In assessing value stream mapping within DevOps, it becomes clear that its application transcends mere process documentation. It offers a strategic lens through which organizations can uncover hidden inefficiencies and foster a culture of relentless improvement. By bridging the gap between development, operations, and business objectives, value stream mapping empowers teams to deliver software faster, with higher quality, and greater alignment to customer needs. As DevOps practices continue to expand and tools become more sophisticated, value stream mapping is set to remain a cornerstone technique for those seeking to master the art and science of software delivery.

[Value Stream Mapping Devops](#)

value stream mapping devops: Driving DevOps with Value Stream Management Cecil 'Gary' Rupp, Helen Beal, 2021-08-31 A practical guide to implementing Value Stream Management to guide your strategic investments in DevOps capabilities and deliver customer-centric value quickly and economically Key Features Address DevOps implementation issues, including culture, toolchain costs, improving work and information flows, and product team alignment Implement proven VSM methodology to improve IT value stream flows Leverage VSM platforms to view, analyze, and improve end-to-end value delivery Book Description Value Stream Management (VSM) opens the door to maximizing your DevOps pipeline investments by improving flows and eliminating waste. VSM and DevOps together deliver value stream improvements across enterprises for a competitive advantage in the digital world. Driving DevOps with Value Stream Management

provides a comprehensive review and analysis of industry-proven VSM methods and tools to integrate, streamline, and orchestrate activities within a DevOps-oriented value stream. You'll start with an introduction to the concepts of delivering value and understand how VSM methods and tools support improved value delivery from a Lean production perspective. The book covers the complexities of implementing modern CI/CD and DevOps pipelines and then guides you through an eight-step VSM methodology with the help of a use case showing an Agile team's efforts to install a CI/CD pipeline. Free from marketing hype or vendor bias, this book presents the current VSM tool vendors and customer use cases that showcase their products' strengths. As you advance through the book, you'll learn four approaches to implementing a DevOps pipeline and get guidance on choosing the best fit. By the end of this VSM book, you'll be ready to develop and execute a plan to streamline your software delivery pipelines and improve your organization's value stream delivery. What you will learn

- Integrate Agile, systems thinking, and lean development to deliver customer-centric value
- Find out how to choose the most appropriate value stream for your initial and follow-on VSM projects
- Establish better flows with integrated, automated, and orchestrated DevOps and CI/CD pipelines
- Apply a proven eight-step VSM methodology to drive lean IT value stream improvements
- Discover the key strengths of modern VSM tools and their customer use case scenarios
- Understand how VSM drives DevOps pipeline improvements and value delivery transformations across enterprises

Who this book is for This book will help corporate executives, managers, IT team members, and other stakeholders involved in digital business transformations to improve the flow of customer value through their IT-based value streams. It will provide you with the practical guidance you need while adopting Lean-Agile, Value Stream Management, and DevOps capabilities on an enterprise scale to enable business agility. A basic understanding of how CI/CD and DevOps pipelines improve software delivery capabilities via integrated and automated toolchains will help you to make the most of the book.

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Key Features

- Packed with step-by-step explanations and practical examples to help you get started with DevOps
- Develop the skills and knowledge you need to tackle the deployment of DevOps tools
- Discover technology trends such as FinOps and DevSecOps to get more value from DevOps

Book Description DevOps is a set of best practices enabling operations and development teams to work together to produce higher-quality work and, among other things, quicker releases. This book helps you to understand the fundamentals needed to get started with DevOps, and prepares you to start deploying technical tools confidently. You will start by learning the key steps for implementing successful DevOps transformations. The book will help you to understand how aspects of culture, people, and process are all connected, and that without any one of these elements DevOps is unlikely to be successful. As you make progress, you will discover how to measure and quantify the success of DevOps in your organization, along with exploring the pros and cons of the main tooling involved in DevOps. In the concluding chapters, you will learn about the latest trends in DevOps and find out how the tooling changes when you work with these specialties. By the end of this DevOps book, you will have gained a clear understanding of the connection between culture, people, and processes within DevOps, and learned why all three are critically important. What you will learn

- Understand the importance of culture in DevOps
- Build, foster, and develop a successful DevOps culture
- Discover how to implement a successful DevOps framework
- Measure and define the success of DevOps transformation
- Get to grips with techniques for continuous feedback and iterate process changes
- Discover the tooling used in different stages of the DevOps life cycle

Who this book is for This book is for IT professionals such as support engineers and systems engineers and developers looking to learn DevOps and for those going through DevOps transformation. General knowledge of IT and business processes will be helpful. You'll also find this book useful if you are in a business or service role within technology such as service delivery management. Basic familiarity with DevOps and transformational methods such as value streams and process are needed to get the most out of

this book.

value stream mapping devops: *The DevOps Adoption Playbook* Sanjeev Sharma, 2017-01-12
Deliver High-Value, Streamlined Enterprise Applications and Systems with DevOps Enterprise IT has unique needs, capabilities, limitations, and challenges. DevOps is perfectly suited to deliver high-value applications and systems with velocity and agility, enabling innovation and speed while never sacrificing quality. But until now, most DevOps instruction has been focused on start-ups and born-on-the-web companies with an entirely different set of requirements. In *The DevOps Adoption Playbook*, IBM Distinguished Engineer Sanjeev Sharma shows you exactly how to adopt DevOps in the enterprise based on your organization's business goals, current state of IT maturity, and IT technologies and platforms. Derived from his own experience helping companies in a wide variety of industries to successfully adopt DevOps, it outlines how to get your organization on board, meet the challenges, and move into the fast lane. Like a sports playbook, this guide provides plays that can be executed for different scenarios and situations within your company. You will learn to create an individual game plan that factors in specifics of your business and get your team working together with a common goal. *The DevOps Adoption Playbook* shows you how to: Understand the elements and capabilities of DevOps Respond to the challenges of a multi-speed IT environment Identify the business goals that large enterprises can meet with DevOps Implement DevOps in large-scale enterprise IT environments Achieve high-value innovation and optimization with low cost and risk Exceed business goals with higher product release efficiency Apply DevOps across multiple technologies from mainframe, mobile, containers, microservices, to cloud technologies

value stream mapping devops: Designing and Implementing Microsoft DevOps Solutions AZ-400 Exam Guide Subhajit Chatterjee, Swapneel Deshpande, Henry Been, Maik van der Gaag, 2022-09-23 Written by Microsoft MVPs and Azure experts, this comprehensive guide comes with self-study exercises to help you understand the concepts better and move closer to becoming a skilled Azure DevOps engineer Key Features Explore a step-by-step approach to designing and creating a successful DevOps environment Understand how to implement continuous integration and continuous deployment pipelines on Azure Integrate and implement security, compliance, containers, and databases in your DevOps strategies Book Description The AZ-400 Designing and Implementing Microsoft DevOps Solutions certification helps DevOps engineers and administrators get to grips with practices such as continuous integration and continuous delivery (CI/CD), containerization, and zero downtime deployments using Azure DevOps Services. This new edition is updated with advanced topics such as site reliability engineering (SRE), continuous improvement, and planning your cloud transformation journey. The book begins with the basics of CI/CD and automated deployments, and then moves ahead to show you how to apply configuration management and Infrastructure as Code (IaC) along with managing databases in DevOps scenarios. As you make progress, you'll explore fitting security and compliance with DevOps and find out how to instrument applications and gather metrics to understand application usage and user behavior. This book will also help you implement a container build strategy and manage Azure Kubernetes Services. Lastly, you'll discover quick tips and tricks to confidently apply effective DevOps practices and learn to create your own Azure DevOps organization. By the end of this DevOps book, you'll have gained the knowledge needed to ensure seamless application deployments and business continuity. What you will learn Get acquainted with Azure DevOps Services and DevOps practices Discover how to efficiently implement CI/CD processes Build and deploy a CI/CD pipeline with automated testing on Azure Integrate security and compliance in pipelines Understand and implement Azure Container Services Effectively close the loop from production back to development Apply continuous improvement strategies to deliver innovation at scale Who this book is for The book is for anyone looking to prepare for the AZ-400 certification exam. Software developers, application developers, and IT professionals who want to implement DevOps practices for the Azure cloud will also find this book helpful. Familiarity with Azure DevOps basics, software development, and development practices is recommended but not necessary.

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2024-04-12 Unlock the power of DevOps release management to elevate your software development with early quality checks, testing, automation, and QA integration, reshaping your software delivery life cycle for excellence Key Features Understand the SDLC and the most popular release management models Learn what makes DevOps unique and how CI/CD pipelines enforce good DevOps release management Drive a culture-driven release management initiative in your organization that breaks down silos Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionAt the core of software development lies the imperative of swiftly and reliably releasing new features and updates, emphasizing the vital role of release management in the DevOps methodology. Discover how software development teams can elevate their processes by incorporating quality checks and shifting left, moving testing, automation, and QA procedures much earlier into the SDLC. However, release management is still tasked with application monitoring, overseeing infrastructure components, and managing change orders and schedules. This book offers insights into the essence of DevOps Release Management, illuminating its nuances and providing basic strategies for its implementation. You'll explore how CI/CD pipelines enforce good DevOps release management and master techniques to optimize them. You'll also learn how to foster a culture of cross-functional product development that minimizes waste and maximizes value to the customer. By the end of the book, you'll have gained a comprehensive understanding of DevOps release management, its benefits, and practical implementation strategies. Equipped with this knowledge, you'll be able to assess your own development processes and identify areas for improvement, ultimately leading to increased efficiency, collaboration, and value creation.What you will learn Discover the significance and anatomy of the SDLC Understand the history of release management and how various models work Grasp DevOps release management and basic strategies to implement it Construct optimized CI/CD pipelines capable of early issue detection Implement the shift-left approach to enhance value delivery to customers at record speed Foster a culture of cross-functional collaboration in your team Make DevOps release management pragmatic and accessible Overcome common pitfalls in DevOps release management Who this book is for This book is a comprehensive introduction for those who are new to DevOps release management, but it's also valuable for DevOps engineers and release managers looking to enhance their skills and knowledge. If you're looking to adopt key practices to shift left, this book will enable you to build high-quality products in record time.

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using DevOps and SAFe. What you will learnUnderstand the important elements of the CALMR approachDiscover how to organize around value using value stream mappingMeasure your value stream using value stream metricsImprove your value stream with continuous learningUse continuous exploration to design high-quality and secure featuresPrevent rework and build in quality using continuous integrationAutomate delivery with continuous deploymentMeasure successful outcomes with Release on DemandWho this book is for This book is for IT professionals such as DevOps and DevSecOps practitioners, SREs, and managers who are interested in implementing DevOps practices using the Scaled Agile Framework (SAFe) approach. Basic knowledge of DevOps and agile software development lifecycle and methodology will be helpful.

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IT decision-makers who are responsible for designing and developing large distributed systems. Familiarity with enterprise solution architectures and cloud-based design will help you to comprehend the concepts covered in the book easily.

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New material has been added to address the increased use of video conferencing for virtual workers, as well as the need to safeguard personal smartphones that store company information. Tips for developing a mobile device policy have been added. Additional pitfalls associated with end-user computing have been added. A new subsection regarding data storage guidelines for documents subject to data retention laws has been added. Additional tips regarding data management have been added. Appendix A has been updated to include data breach notification laws for Puerto Rico and the Virgin Islands, and also to reflect changes to Vermont's data breach notification laws. Data from recent surveys and reports has been added and updated in the Comment sections throughout. In addition, exhibits, sample policies, and worksheets are included in each chapter, which can also be accessed at WoltersKluwerLR.com/ITgovAppendices. You can copy these exhibits, sample policies, and worksheets and use them as a starting point for developing your own resources by making the necessary changes. Previous Edition: IT Governance: Policies & Procedures, 2020 Edition ISBN 9781543810998

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- Measure service value using KPIs, SLAs, and metrics frameworks.
- Lead continual improvement and prepare for future ITSM trends.

WHO IS THIS BOOK FOR? This book is for ITSM professionals, consultants, managers, and enterprise leaders with a foundational understanding of ITIL® 4. It's ideal for those aiming to scale ITSM across large organizations, integrate with Agile, DevOps, and Cloud, and deliver measurable business value through service excellence. Whether you're leading digital transformation, optimizing operations, or preparing for senior ITSM roles, this book equips you with the insights and tools to lead with confidence in a complex, evolving IT landscape.

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Delivery (CICD) for Mobile, Hybrid, and Web applications

DESCRIPTION The main objective of the book is to create Declarative Pipeline for programming languages such as Java, Android, iOS, AngularJS, NodeJS, Flutter, Ionic Cordova, and .Net. The book starts by introducing all the areas which encompass the field of DevOps Practices. It covers definition of DevOps, DevOps history, benefits of DevOps culture, DevOps and Value Streams, DevOps practices, different Pipeline types such as Build Pipeline, Scripted Pipeline, Declarative Pipeline, and Blue Ocean. Each chapter focuses on Pipeline that includes Static Code Analysis using SonarQube or Lint tools, Unit tests, calculating code coverage, publishing unit tests and coverage reports, verifying the threshold of code coverage, creating build/package, and distributing package to a specific environment based on the type of programming language. The book will also teach you how to use different deployment distribution environments such as Azure App Services, Docker, Azure Container Services, Azure Kubernetes Service, and App Center. By the end, you will be able to implement DevOps Practices using Jenkins effectively and efficiently.

KEY FEATURES

- _ Understand how and when Continuous Integration makes a difference
- _ Learn how to create Declarative Pipeline for Continuous Integration and Continuous Delivery
- _ Understand the importance of Continuous Code Inspection and Code Quality
- _ Learn to publish Unit Test and Code Coverage in Declarative Pipeline
- _ Understand the importance of Quality Gates and Build Quality

WHAT YOU WILL LEARN

- _ Use Multi-Stage Pipeline (Pipeline as a Code) to implement Continuous Integration and Continuous Delivery.
- _ Create and configure Cloud resources using Platform as a Service Model
- _ Deploy apps to Azure App Services, Azure Kubernetes and containers
- _ Understand how to distribute Mobile Apps (APK and IPA) to App Center
- _ Improve Code Quality and Standards using Continuous Code Inspection

WHO THIS BOOK IS FOR

This book is for DevOps Consultants, DevOps Evangelists, DevOps Engineers, Technical Specialists, Technical Architects, Cloud Experts, and Beginners. Having a basics knowledge of Application development and deployment, Cloud Computing, and DevOps Practices would be an added advantage.

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