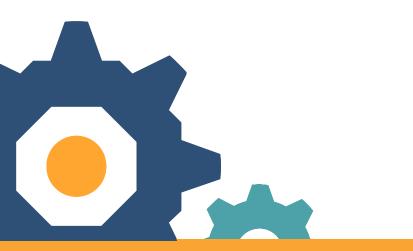


Modern Skills for the IT Professional



Jayne Groll CEO DevOps Institute



About Me



© DevCio montate uness otherwise sta

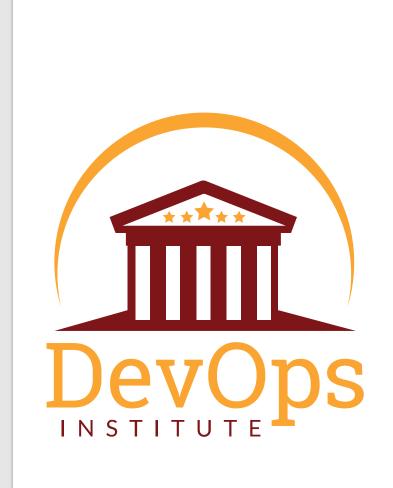
CEO and co-founder of the DevOps Institute, cofounder of ITSM Academy, active trainer, ScrumMaster, ITIL[®] Expert and former IT Director. Author of the Agile Service Management Guide.



About DevOps Institute

The DevOps Institute (DOI) is the continuous learning community for emerging DevOps practices.

DevOps Institute's vision is to facilitate a community where learning is a lifestyle and members have access to the most innovative, inspirational and transformational DevOps content, courses and certifications. We strive to provide content that inspires discussion, collaboration and transformation.



The Digital Transformation Is Real



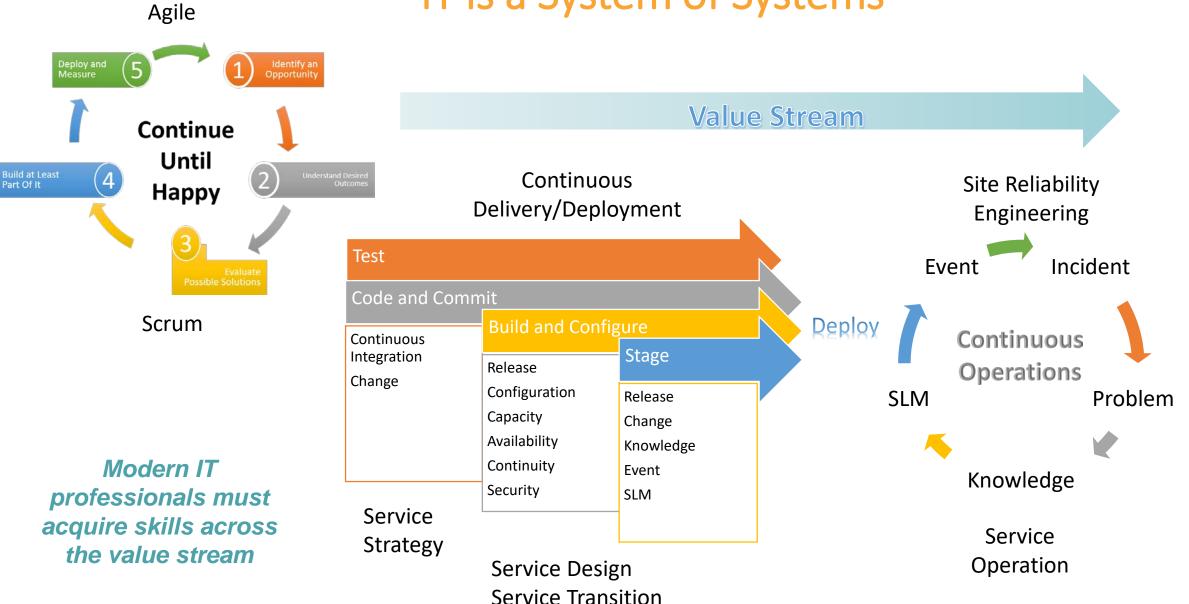
- Software drives the world (literally)
- Every organization is now a digital technology business
- Your biggest competitor is a disruptive start-up
- Attention spans have been reduced to 1 min videos and 140 characters
- Migration to the cloud is accelerating
- Information is available at the speed of your connection

Moore's Law: Rates of improvement will increase exponentially over time.

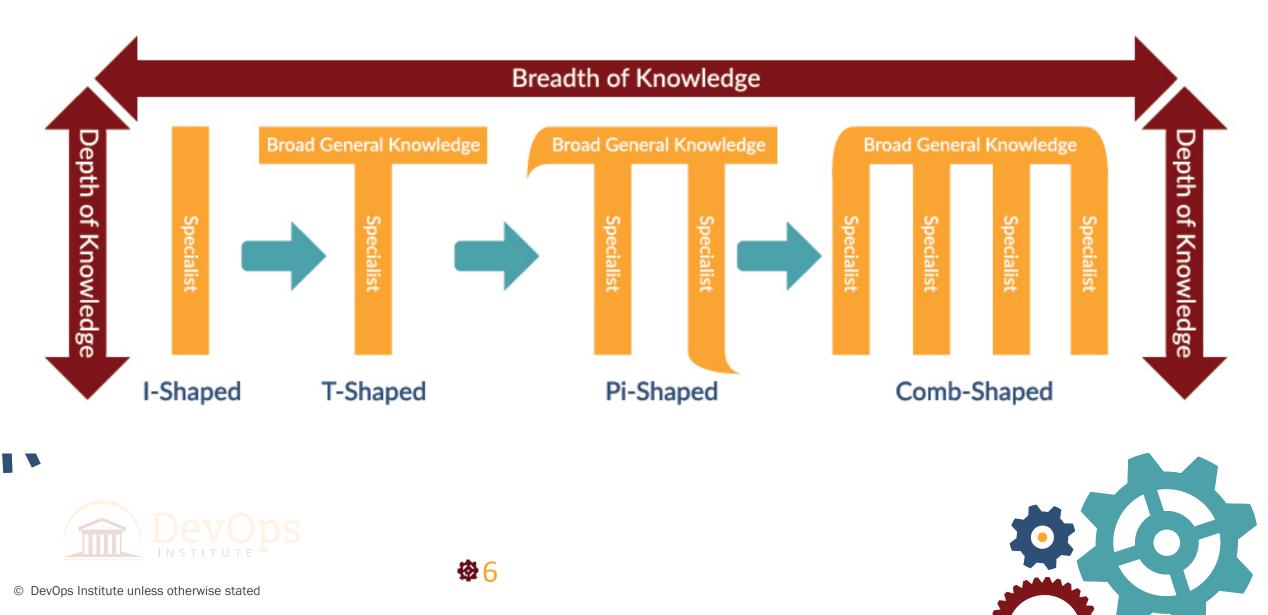
How does that affect IT systems?

© Devois manute unless otherwise stated

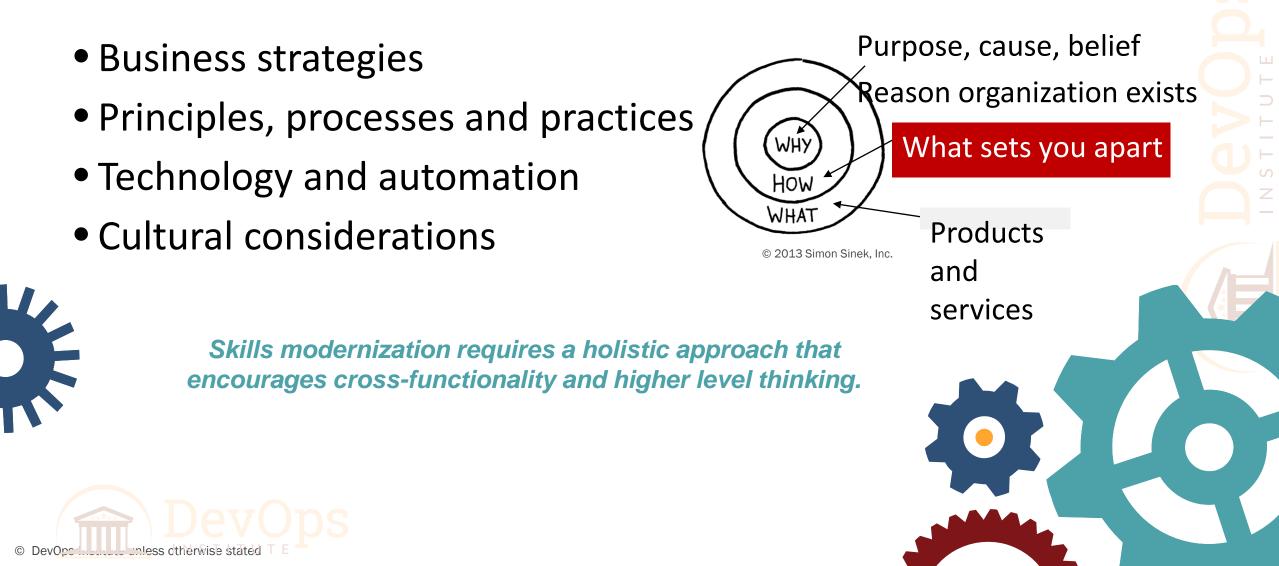
IT is a System of Systems

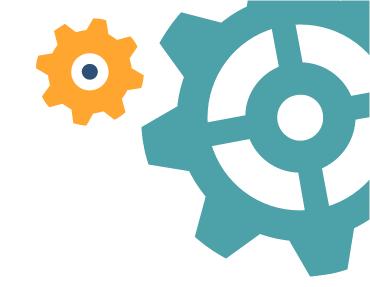


Systems Thinking Requires Multi-Dimensional Professionals



Breadth of Knowledge is as Important as Depth

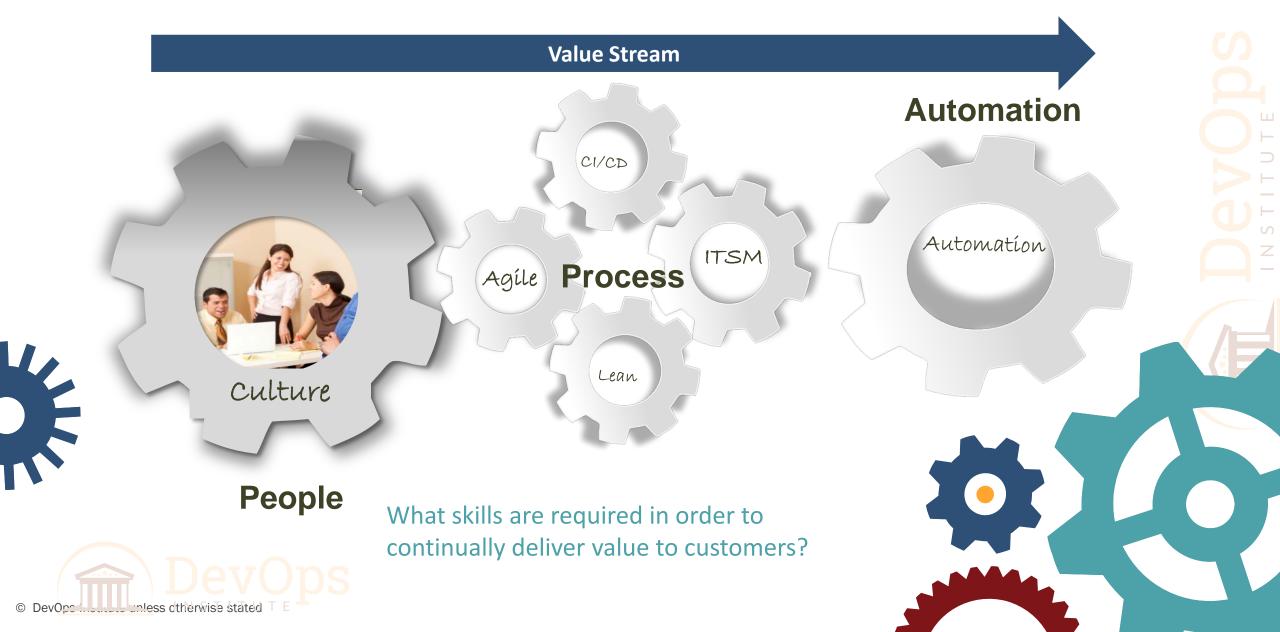




Skills for the Digital Age



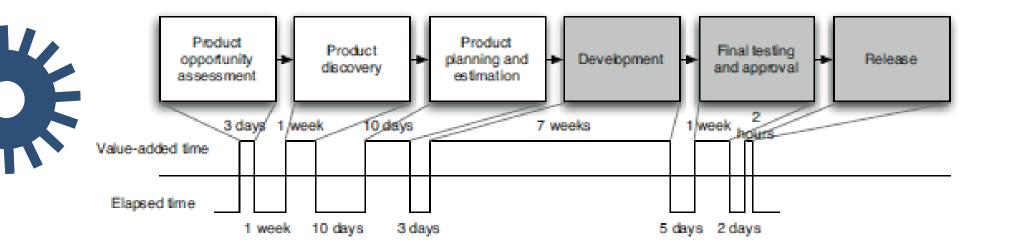
Study Your Value Stream



Value Stream Mapping (VSM)

"Every successful DevOps transformation starts with a Value Stream"

VSM is a tool that is used to evaluate processes to identify bottlenecks, waste, and ultimately improvement opportunities

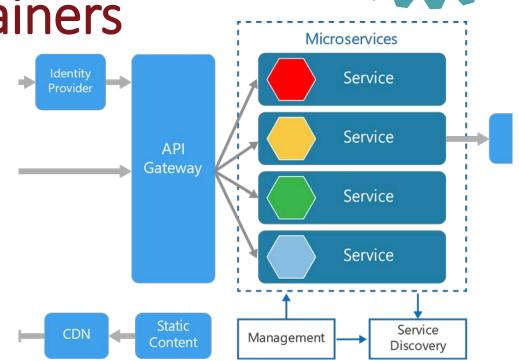


Source: Jez Humble -Continuous Delivery: Reliable Software Releases through Build, Test, and Deployment Automation

Microservices and Containers

A microservices architecture consists of a collection of small, autonomous services.

Each service is self-contained and should implement a single business capability.

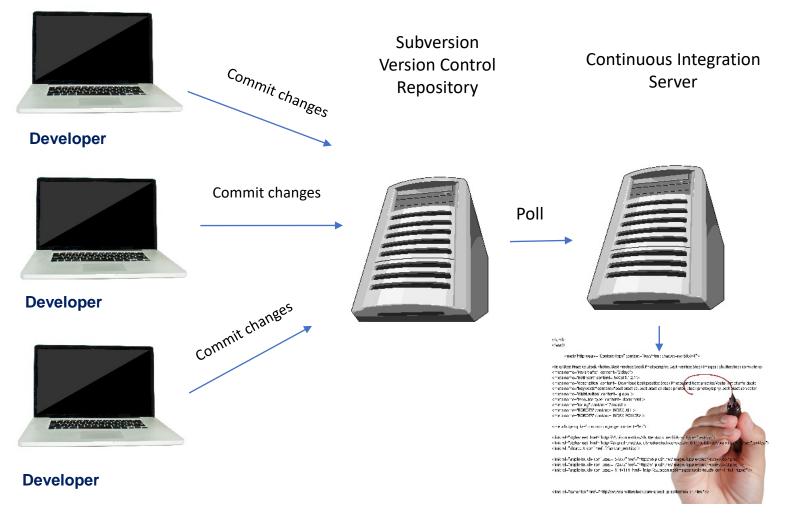


https://docs.microsoft.com/enus/azure/architecture/guide/architecture-styles/microservices

A container consists of an entire runtime environment: an application, all of its dependencies, libraries and other binaries and configuration files needed to run it, bundled into one package

Continuous Integration





Build and test scripts

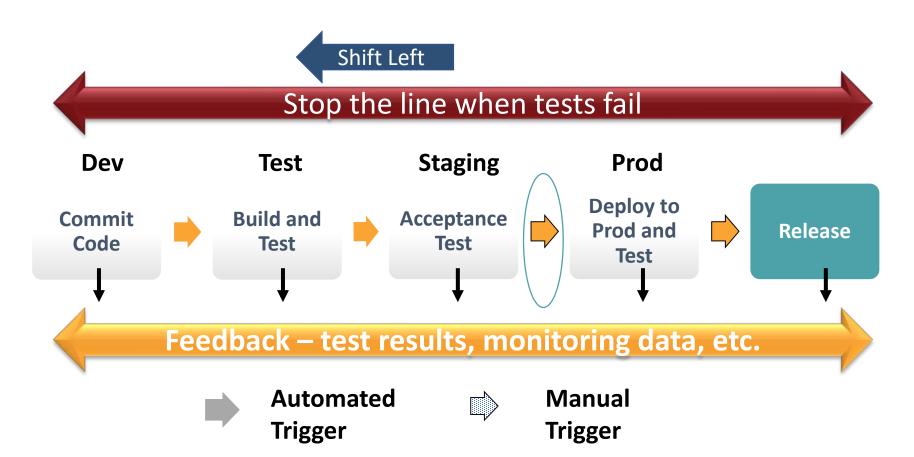
K

13

K

Continuous Delivery

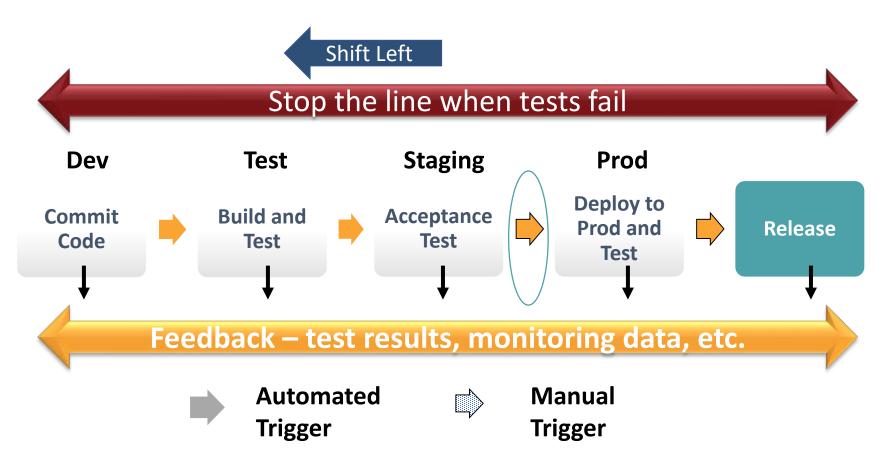
Continuous delivery is a methodology that focuses on making sure software is always in a releasable state throughout its lifecycle.





Continuous Testing

Continuous testing is the process of executing automated tests as part of the deployment pipeline to obtain immediate feedback on the business risks associated with a software release candidate.





- DevSecOps implements security to be full integrated into the business by:
 - Making heavy use of automation
 - Moving security earlier and more often
 - Supporting organization transformation
- DevSecOps supports security as code with the intent of making security and compliance consumable as a service



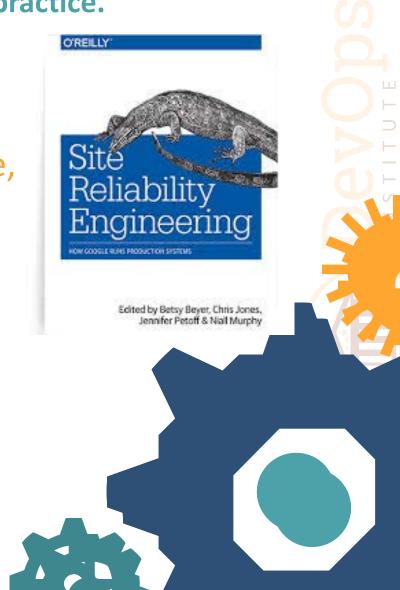
Site Reliability Engineering

An innovative approach to Operations as an engineering practice.

- Uses software engineers to design operational functions and automated systems
- Is responsible for availability, latency, performance, efficiency, change management, monitoring, emergency response, and capacity planning
- Integrates ITSM processes and practices

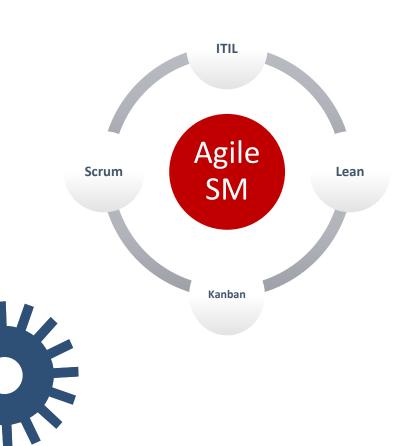
Is SRE actually Continuous Operations?





Agile Service Management





Agile Service Management (Agile SM) ensures that ITSM processes reflect Agile values and are designed with "just enough" control and structure in order to effectively and efficiently deliver services that facilitate customer outcomes when and how they are needed.

Agile Service Management Guide

Agile Service Management does not reinvent ITSM – it modernizes the approach.

Groom Your Cultural Skills

You can't directly change culture. But you can change behavior, and behavior becomes culture." Lloyd Taylor





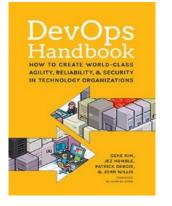
LaLoux

Transformational Leadership

Squads, Tribes, Guilds, Chapters

Optimize Best Practices















Become Familiar with Key Tools and Tool Categories



and many more...

20

Become a Continuous Learner

- True to its core values, DevOps is emerging through a shared and collective body of knowledge (CBok) including
 - Publications
 - Conferences
 - Videos and webinars
 - Blogs and articles
 - Case studies
 - Subject matter expertise







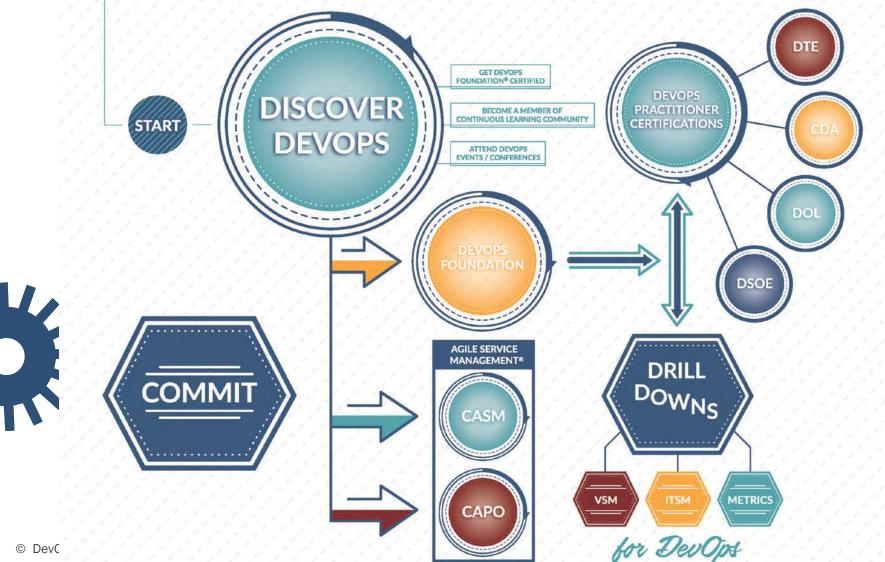
The DevOps Institute actively researches and influences emerging DevOps practices so as to create meaningful certifications and content.



The DOI Difference: Why Certifications Accredited by the DevOps Institute Matter?

We are the only Continuous Learning Community that offers 7 DevOps competency-based certification courses and 3 non-certification courses through our global network of Registered Education Partners. We have more than 160 Hours of Learning Materials (the most in the market) and a dedicated full-time staff 100% focused on the advancement of DevOps learning.

Our curriculum is based on research and the most up-to-date and relevant resources. Simply put, our role-based development approach focuses on the most modern competencies required by organizations adopting DevOps-these are actionable and hireable skills.



Certification Courses

DevOps Foundation® DevOps Test Engineering (DTE)® DevOps Leader (DOL)™ Continuous Delivery Architecture (CDA)⁵⁴⁴ DevSecOps Engineering (DSOE)[™] Certified Agile Service Manager (CASM)® Certified Agile Process Owner (CAPO)®

Non-Certification Courses

Value Stream Mapping for DevOps[™] ITSM for DevOps[™] Metrics for DevOps⁵⁴⁴



The DevOps Institute is the Continuous Learning Community around emerging DevOps practices. Working with recognized thought leaders, the DevOps Institute is setting the quality standard for DevOps competency-based education and qualifications.

DevOpsInstitute.com

Join our Free Continuous Learning Community



DevOpsInstitute.com



© DevOps Institute unless otherwise stated