



the testing consultancy

Testing in Dev Ops

DevOps is the latest evolution in a history of changes to software development. Waterfall to Agile, Agile to DevOps – each step has created corresponding changes in the role and activities of software testing.

Understanding DevOps and continuous delivery

DevOps is a set of practices that emphasizes the collaboration and communication of software developers and other information technology professionals while automating the process of software delivery and infrastructure changes.

It aims to establish a culture and environment where building, testing and releasing software can happen rapidly, frequently and more reliably. Continuous delivery means software is constantly production-ready throughout its entire lifecycle so that any build could be released to users through a fully automated process.

Improve software quality and speed to market with DevOps

Understanding the skills, practices and tools available in areas that have historically been peripheral to software development creates opportunity to embed testing in all aspects of the solution lifecycle.

The key goal of DevOps is to improve speed to market by optimising processes and enabling greater efficiencies. While automation is the solution that will speed up testing, it is the smart use of tools to facilitate better engagement across the development and operations teams that

nets the greatest productivity. When you combine improved engagement with test automation tools and techniques and apply these across the delivery framework, the result is a significantly more effective and efficient model.



PEOPLE

PROCESS

TECHNOLOGY

Transitioning to Agile or DevOps

DevOps is the natural extension of Agile. Agile is centred around improving collaboration between development and operations. DevOps advocates automation, short development cycles, frequent delivery and flexible prioritisation.

The people in a DevOps team are responsible for creating and supporting software, centred around the concept of a “product” or piece of a system.

Although organisations can and have moved from Waterfall straight to DevOps as a method of delivery, a move to Agile first can help facilitate the culture required for successful DevOps. If a team is not comfortable testing in Agile, they may not smoothly leap into a DevOps environment.

At TTC, we are experienced in taking teams on this journey. Our knowledge and experience in working with clients of all sizes means we can train and mentor teams to think and deliver in an Agile way.

Testing in DevOps

Testing in DevOps is a cross-functional activity that involves the whole team and is done continuously from the beginning of the project. Critical to this is understanding the role of a tester and what type of testing should be performed. Distinguishing tasks for all phases of delivery is key to the success of testing in DevOps.

For most organisations, the transition to DevOps requires specialist resources to support the required culture change. Team collaboration is a must for DevOps to be successful. Our team of consultants work with organisations to map connections, which helps facilitate the culture needed for DevOps resulting in faster, more efficient and higher-quality software outcomes.

How TTC can support your transition to Agile and DevOps

- Delivery of a range of training courses and assistance with mentoring and coaching teams who will be delivering a project using Agile or DevOps
- Coaching on the development of test practices to support DevOps and what a pipeline of delivery looks like under this method
- Implementation of feature toggles, which provide the ability to switch off code and deploy to production, and turn on again at a later stage
- Assistance with crowdsourced testing
- Support on how to tilt the balance of releasing quickly into production and how to ensure testing has been completed thoroughly post-deployment
- Establish monitoring practices that are applied throughout the delivery phase
- Implementation of container-based architecture and cloud systems in a non-production environment to support DevOps

Talk to TTC

For more information about test automation, talk to our team in your region today.

New Zealand Auckland +64 9 948 2225, Wellington +64 4 210 2225, newzealand@testingconsultancy.com
The Americas Houston +1 832 813 8063, americas@testingconsultancy.com
Asia Singapore +65 9822 8740 7056, asia@testingconsultancy.com

testingconsultancy.com