Build For Speed
DevOps Transformation

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Build For Speed Overview

Our comprehensive DevOps assessment, planning and implementation program that enables your software development and operations teams to deliver optimal business value by promoting quality, productivity and collaboration

Build for Speed. DevOps Services with IJYI

DEVELOP

Toolset
Code branching and merging
Quality Metrics
Pull Request Process
Pair Programming
Code Review
Static Analysis
Unit & Integration Testing
Build Automation
Dashboarding

DISCOVER

Tooling
Tracking Process
User Story Planning
Stakeholder Engagement

TEST

Toolset
Plan, Suite, and Case Management
Defect Management
Automation Tools

COLLABORATE

Auto-Improvement (Retrospectives)
Communication
Use of tooling

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DEPLOY

Toolset
Time To Deploy
Effort To Deploy
Manual Intervention
Auditability

OPERATE

Toolset
Collaboration with Dev Process
Issue Resolution
Pro-Active Monitoring

- Assessment(s)

- Coaching & Training from IJYI

- Business Aligned Transformational Delivery with IJYI

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Collaborate

One of the core aims within DevOps is breaking down barriers and increasing communication between all stakeholders.

Successful software is built and maintained by everyone in the business not just by IT departments so the COLLABORATE discipline exists to ensure that this ingrained in the culture of a company.
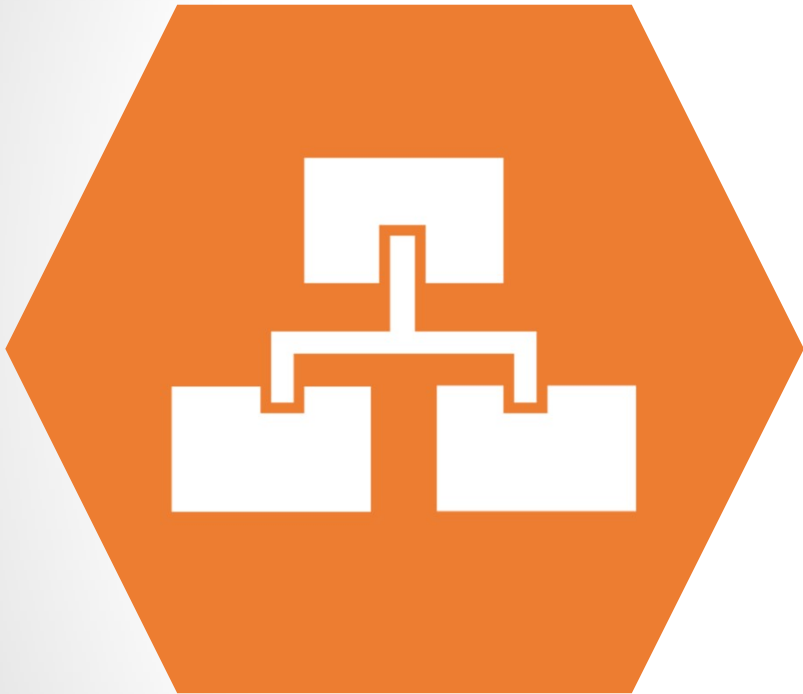
The IJYI consultant will assess how the team communicates on IT issues and whether appropriate tooling is in place to present data and keep all parties in constant communication. Improvement of processes should be a natural consequence of great collaboration and the consultant will look for evidence of continuous and automatic improvement across the software delivery process.

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Collaborate

- Continuous Improvement
- Running great retrospectives
- Inter and intra team communication
- Scaling to multiple teams
- Using the right tools

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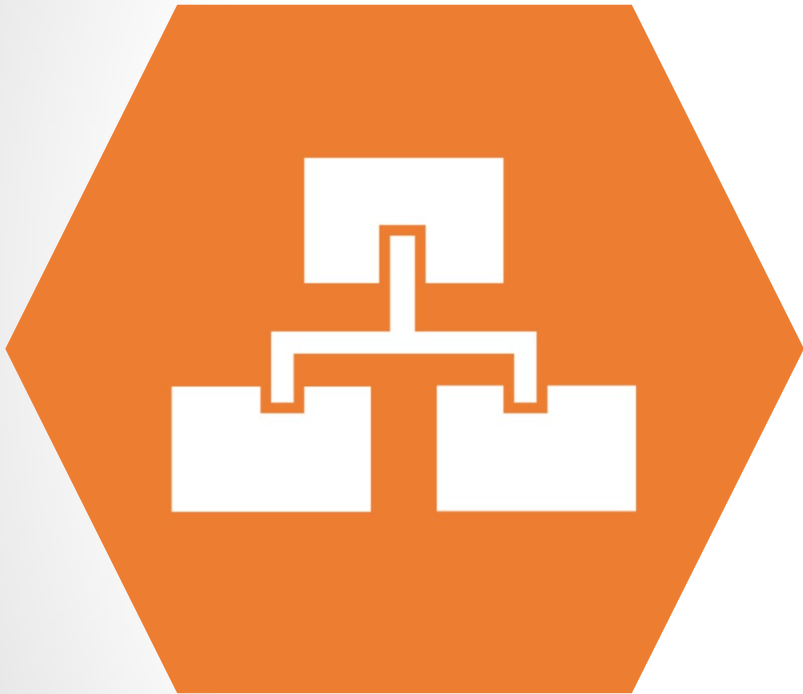
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Discover

When assessing the DISCOVER discipline of Build for Speed, the IJYI consultant is looking at the method by which requirements are captured, tracked and organised. The consultant will investigate how the various parties within the organisation interact to produce the product backlog, focussing on whether the process is consistent, repeatable and inclusive.

Furthermore, the consultant also assesses the use of tools and how these are used to track the requirements through the full lifecycle from generation to development including the tracking of issue or defects, ensuring traceability and measurement of key elements of the process.

In the most mature organisations these processes are well defined and understood by all parties and are applied consistently across projects. The data collected during these activities should be constantly reviewed by management to assess the success of the process and enable optimisation where required.

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Discover

- Creating great user stories
- Planning
- Reporting and Metrics
- Stakeholder Engagement
- Using the right tools

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Develop

The assessment of the DEVELOP discipline is focussed on the application of software engineering best practices. The IJYI consultant will be looking for evidence of:

- Consistent use of technologies.

- Appropriate tooling.

- Application of a peer review process.

- Automated assessment of code quality, security and test coverage.

- Build and deployment automation.

- Adequate source control and protection of technology assets.

In all cases, consistency of application and use were assessed as well as whether the appropriate data is being recorded and reviewed regularly to enhance the process in the future.

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Develop

- Effective code management
- Quality focused metrics
- Pair programming and peer review
- Static Analysis
- Unit and integration testing
- Build automation
- Using the right tools

Operate

In the end all software is developed to be used so monitoring that product and its use is understanding how to provide support to the highest standard possible.

The OPERATE discipline assesses how an organisation monitors their live software.
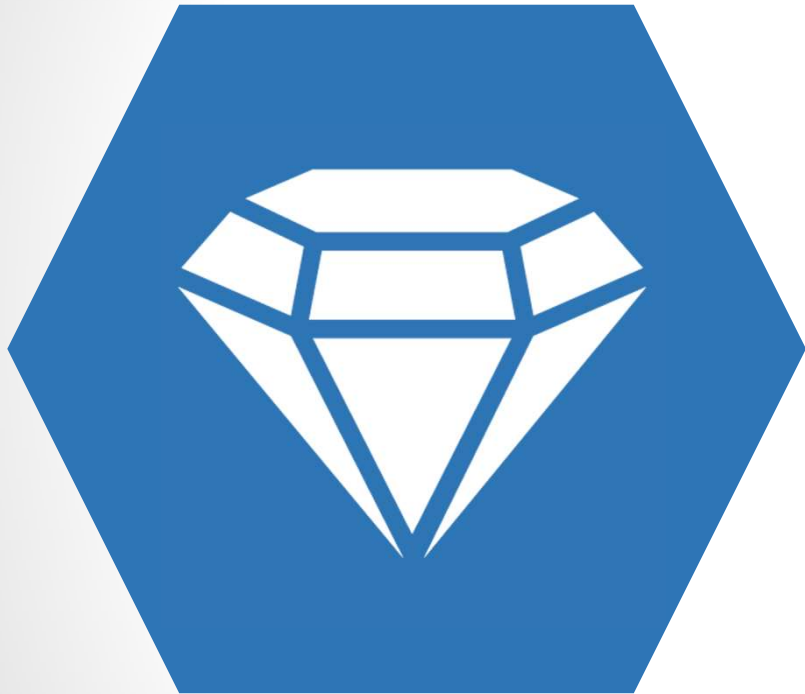
The IJYI consultant will analyse the use of monitoring software to proactively and reactively monitor critical business systems. They will also review the process an issue goes through from being raised to being resolved to ensure fixes are applied quickly and lessons are learned.

Operate

- Operations and Software Development work as one
- Resolve issues quickly and efficiently
- Pro Active Monitoring
- Intelligent Tooling

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Test

The TEST discipline in Build for Speed covers all aspects of quality control. This begins with the gathering and structuring of requirements through to the delivery of a finished product into the live environment.
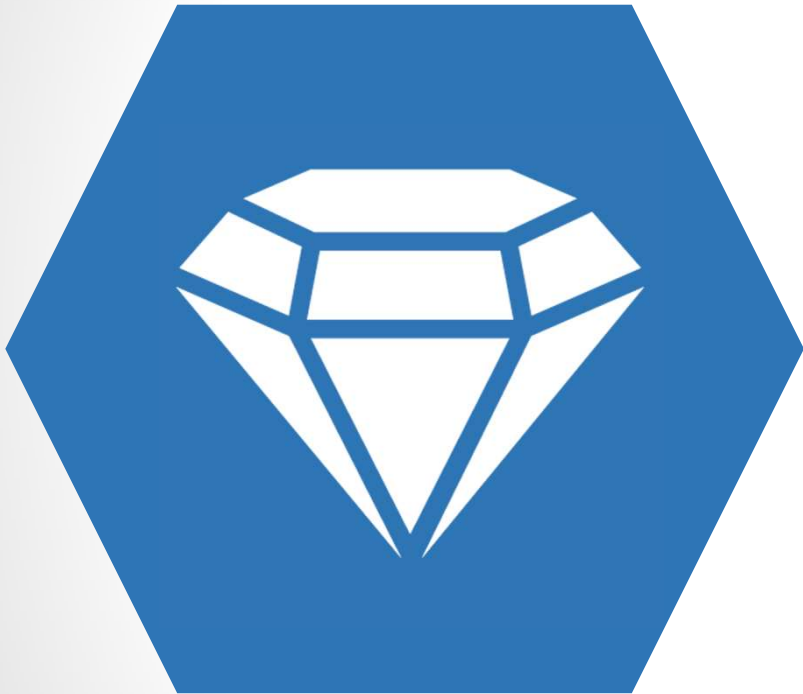
The IJYI consultant will begin by looking at how user stories are defined and whether a person with responsibility for quality control is included in the process. They will assess the definition of acceptance criteria, definition of done and the review process prior to a user story being moved to development.

The final area of analysis will be the application of quality standards in the development process. DevOps best practice requires the consistent and comprehensive application of automated testing techniques at all levels of the code. Further assessment of the defect management process is included at this stage.

As with all disciplines in Build for Speed consistent application, collection and measurement of data along with regular review will indicate that an organisation is mature in this area.

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Test

- Test planning

- Test suite and case management

- Quality focus from requirements gathering through to delivery

- Defect Management

- Automation First

Deploy

A key element of any successful DevOps process is the ability to deploy quickly, accurately and regularly. The DEPLOY discipline in Build For Speed assesses an organisations maturity in this area.

The IJYI consultant will review the processes currently used and measure the full duration of a deployment from request to implementation along with how much effort is required in terms of man days. They will also look at how much of the process is automated and repeatable with a high level of audit data recorded.

Mature organisations in this area will be heavily dependent on automation to complete their deployments with very little manual intervention. They will also be able to release multiple times a day with the same tools and steps being applied across their software portfolio. Development and Operations teams should be seen to be working as one to achieve maximum business value without delay.

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Deploy

- Reduce the time to deploy
- Focus on rapid high quality deployments rather than protecting the fort
- Reduce the effort to deploy
- Minimise manual intervention
- Auditable and metric driven
- Use the right tools

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Maturity Model

Level	Description
1 - No or minimal Adoption	No or minimal control over quality, scope, timescales and monitoring
2 – Some adoption across some teams	Some team adoption of process and tooling across some teams, but no common approach or consistency
3 – Some adoption across all teams	Some team adoption of process and tooling across all teams, but no common approach or consistency
4 – Full adoption across teams	Adoption across all teams with a common approach and consistent forms of practice and communication
5 – Organisation culture embraces DevOps	The organisation embraces DevOps, uses its practices and tooling to its competitive advantage.