

CA DevOps Assessment

At A Glance

The CA DevOps Assessment can help your organization gauge the current state of DevOps by analyzing your organizational structure, your processes and, potentially, your other ongoing DevOps initiatives. A gap analysis is performed for areas in the delivery process to prioritize opportunities for improvement and enhance DevOps.

KEY OUTCOMES

- **Establish a DevOps baseline.** Monitor progress from current-state baseline toward DevOps goals.
- **Detailed findings prioritized to improve DevOps.** Align resources on the most impactful DevOps initiatives in preparation for continuous delivery.
- **Improved awareness and better cross-team communication.** Focus your teams on the importance and potential of DevOps in the organization.
- **Detailed gap analysis.** Identify bottlenecks and inefficiencies that span team-culture considerations, technology-related limitations and untapped automation potential.

KEY SERVICES FEATURES

- **Multi-day collaborative assessment.** Focused interviews, in-person observations and off-site analysis of processes across development, deployment, release, test, environment, operations including the points at which teams, processes and technologies intersect.
- **Flexible scope.** Can focus on a single or multiple applications. Sub-assessments for deployment and release management or IT environments may be performed separately.
- **Guidance from DevOps experts.** Work collaboratively with the CA Services DevOps team.

Business Challenges

There are many moving parts to successfully transition to DevOps, improve maturity and operate smoothly within the DevOps model.

With pressure to deliver high-quality software faster, organizations work to leap forward, but sometimes they prioritize poorly or leap in the wrong direction. Development teams look to development-focused answers. Testing teams, security teams and operations teams may seek answers oriented to their own unique perspectives.

Business departments demand faster processing from idea to production. Agile development and automation initiatives can help improve continuous testing and release management, as will a tighter connection with operations teams.

As the organization works to transform itself while keeping up with regular deliverables, progress on DevOps can falter, and the organization can lose focus. Eventually, teams need to re-sync and reprioritize top DevOps obstacles and opportunities.

Siloed approaches to meet DevOps goals can displace a unified team approach to DevOps unless carefully managed.

Meeting regular business commitments while transforming to a DevOps paradigm can overtax well-functioning teams with ambitious goals.

A lack of baseline data makes tracking and managing progress difficult.

Offering Overview

CA Services conducts this assessment in a mixed-model collaborative workshop supported with resources such as a library of hundreds of questions focused on DevOps. The team follows a structured approach tailored to your organization to evaluate areas that can impede (or help to accelerate) DevOps maturity:

Data captured includes objective system and process information plus subjective

- Development processes
- Environment configuration
- Deployment processes
- Continuous delivery automation
- Release management
- IT operations
- Test and quality management

perspectives from interviews and other observations. The CA Services team analyzes the data using a proven DevOps maturity model to identify areas of strength, gaps and potential barriers to future growth.

The assessment can be performed for a single application, multiple applications or multiple application clusters. Many questions can be tailored to either individual applications or groups of applications using the same development methodology, tools and delivery principles.

The outcome of the CA DevOps Assessment can serve as baseline for creating a DevOps roadmap, tuning the organization's DevOps strategy and establishing DevOps transformation initiatives. This baseline data can also be used to improve awareness and understanding of DevOps, foster better cross-team communication, monitor and report on progress for specific areas such as automation.

Some organizations may prefer a smaller scale assessment either before or after a full DevOps assessment. These organizations may choose an abbreviated or limited scope sub-assessment for one or more of the following categories: deployment, release and environment.

Deliverables

- DevOps maturity baseline report
- Heat map indicating maturity in a matrix of applications and areas
- Detailed gap analysis per area and application
- Management summary including DevOps maturity level

Figure 1. Example assessment overview per area

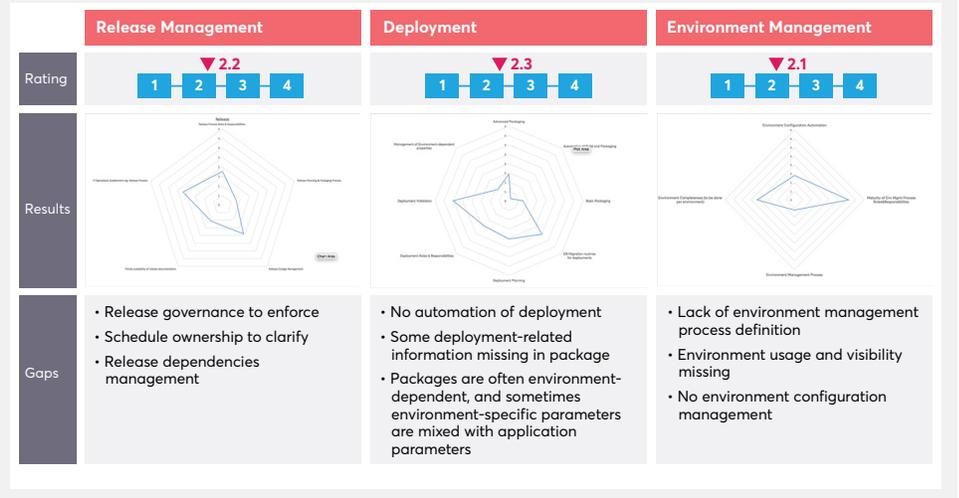


Figure 2. Heat map for gap overview

Domain	Area	Business Application 1	Business Application 2	Business Application 3	Business Application 4	Business Application 5
Development	Adherence to agile principles	0.00	0.00	0.00	1.67	0.50
	Compliance with SCRUM rules	0.00	0.00	0.00	0.00	0.00
	Quality of dev cycle output	2.43	1.25	2.76	2.83	1.87
	Traceability of changes	1.75	0.80	1.75	2.00	2.75
	Use of version control	2.53	0.40	1.00	0.00	1.11
Deployment	Advanced packaging	1.50	1.80	2.00	2.00	2.64
	Automation of build and packaging	0.80	1.00	1.22	0.25	1.29
	Basic packaging	2.33	3.30	1.49	2.91	1.75
	DB migration routines for deployments	3.60	1.00	3.47	3.04	0.00
	Deployment planning	2.00	2.70	2.96	1.67	1.96
	Deployment roles and responsibilities	3.00	3.00	2.00	2.75	2.50
	Deployment validation	3.00	2.00	4.00	2.00	3.00
Release	Management of environment-dependent properties	3.33	3.48	1.64	3.67	2.00
	Release process roles and responsibilities	1.66	2.16	1.66	1.66	2.16
	Release planning and packaging process	1.24	1.35	1.24	1.20	1.35
	Release outage management	1.96	2.40	1.96	1.96	2.40
	Timely availability of release documentation	2.60	2.40	2.60	2.60	2.40
Environment	IT operations enablement reg. release process	3.20	3.20	3.20	3.20	3.20
	Environment configuration automation	1.49	1.55	1.49	3.20	1.55
	Maturity of env. mgmt. process roles & responsibilities	2.80	3.20	2.80	2.40	3.20
	Environment management process	1.00	1.75	1.00	2.00	1.75
	Environment completeness	1.20	3.36	1.20	2.10	3.36
Test	Testing roles and responsibilities	3.20	3.50	3.20	2.67	3.50
	Test strategy	2.18	3.43	2.60	1.40	3.43
	Test cycle planning	2.76	2.52	2.76	2.55	2.52
	Requirements-to-test-case-traceability	2.67	2.67	2.67	2.67	2.67
	Defect management	1.50	2.75	1.50	1.50	2.75
	Functional test case documentation	3.33	2.93	3.33	3.33	2.93
	Non-functional test case documentation	1.20	0.00	0.20	2.40	0.00
	Degree of automation of test cases	0.00	0.00	3.00	0.00	0.00

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