



CONTINUOUS IMPROVEMENT, CONTINUOUS MODERNIZATION

The acceleration of modernization

The journey from waterfall methodology and monolithic applications to agile, cloud-native development does not happen overnight. Teams and individuals need to be equipped with continuous cloud-native training to reap the rewards of continuous modernization.

Advancing their cloud skills is critical to enable agility, rapid innovation, and faster response times. With the proper training, employees and teams can move forward fearlessly on a continuous learning journey—utilizing the cloud efficiently and effectively, accelerating modernization, and propelling business growth.

Benefits of modern applications

Modern applications represent a huge business advantage to organizations, whether utilized to handle changing business needs or to meet large variations in demand. Modern applications and cloud-native development can:



**Accelerate
speed to
market**



**Increase
developer
innovation**



**Improve
application
reliability**



**Reduce
total cost of
ownership (TCO)**



**Build applications
utilizing the right
cloud-native tools**

Shortage of talent

To gain a competitive advantage and the benefits of the cloud, organizations need to innovate and build modern applications faster. However, most organizations quickly realize a key challenge—a shortage of skilled talent. Organizations need developers who understand and can build modern applications with a cloud-native mindset, administrators and cloud architects who can design and manage these modern applications, and senior leaders who are ready to put these applications to use to improve the business.

In addition to finding and hiring qualified staff with in-demand skills, businesses also face the challenge of retaining employees who have the advanced cloud skills needed for continuous modernization. Nearly 80 percent of IT decision-makers say their teams lack the skills they need to adopt cloud services to accommodate their increased digital capabilities, according to a Global Knowledge survey of 9,500 IT professionals.¹ Recent data shows that 63 percent of US organizations anticipate the IT skills gap will widen, and 59 percent expect this talent shortage to continue in the next two years (Ceredian).²

Yesterday's cloud training plan no longer serves to meet today's modernization needs. To ensure the availability of a highly qualified cloud workforce to meet the acceleration of modernization, organizations need to rethink how they hire, train, and retrain their staff. A culture of continuous learning equips organizations with trained IT talent. Without continuous learning, the skills gap will persist, and you will not meet modernization goals.

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¹ "4 reasons to invest in entry-level cloud talent." CIO DIVE Online. 2021

² "The Cloud Talent Drought Continues (and Is Even Larger than You Thought)." Forbes Magazine. 2020



Modernize with the AWS Developer Acceleration (DevAx) Workshop

Maintaining a competitive advantage in digital business is crucial. Organizations must innovate rapidly to modernize and evolve, which starts with *your in-house development team*. And migrating from a monolithic architecture to microservices requires more than a change in mindset for a developer. Understanding how they can use microservice design patterns and the tools to deploy them is also necessary.

2nd Watch, a trusted AWS Premier Consulting Partner to enterprise organizations like McDonald's France, the Hearst Corporation, and more, can help with your modernization efforts and transformation goals. The 2nd Watch AWS Developer Acceleration (DevAx) Workshop for application modernization (AppMod) is the catalyst that equips your developers with the necessary skills to advance you along your cloud journey quickly.

The workshop is designed for experienced software developers to expand their knowledge to the broader AWS platform and cloud-native development. By working directly with your development team(s), 2nd Watch's skilled AWS-certified engineers enable them to build cloud-native fluency across the organization and modernize their applications on AWS faster, resulting in³:

COST SAVINGS

51% lower 5-year cost of operations

IMPROVED IT & BUSINESS AGILITY

25% more productive application development teams

INCREASED EFFICIENCY

94% less time lost to unplanned downtime

2nd Watch delivers the DevAx Workshop to upskill your development team(s) through a structured educational curriculum of workshops and co-development sessions while at the same time helping to identify areas of opportunity for future modernization engagements.

How the Developer Acceleration program works

As part of the workshop, developers start with a Java Springboot monolith with a large RDBMS backend and methodically break the monolith into a series of decoupled microservices, then rehost the application in AWS. From there, they refactor the application architecture to utilize application release automation and bounded context-based microservices. They then refactor and rearchitect the databases and implement an event-driven system. Finally, although microservices security best practices are a cross-cutting topic across all modules, a dedicated module is available for a deeper dive.

MODULE 1 [Lift and Shift – Migrating the Monolith](#)

MODULE 2 [Configuring Release Automation](#)

MODULE 3 [Creating a Microservice](#)

MODULE 4 [Refactoring Your Data](#)

MODULE 5 [Messaging & Event-Driven Systems](#)

MODULE 6 [Authentication & Authorization for Microservices](#)

Modern never stops (and neither should you)

Modernization is an ongoing journey that evolves through a culture of continuous learning and empowerment. A team of in-house developers who can design and manage modern applications, and confidence in 2nd Watch as your trusted cloud services partner to continuously guide them, sets your organization up for success today and beyond.

Equip your teams with the cloud-native skills to move your organization in a modern direction by scheduling a discovery call with 2nd Watch for an AWS DevAx Workshop today!

[Register Today!](#)

³ 2018 IDC Report on Creating Business Value with AWS