

Jenkins User Success Stories

Aerospace

Travel

Education

Finance

Insurance

Retail



JENKINS

— IS THE WAY —

JENKINS IS THE WAY

A curated cross-industry collection of Jenkins user stories

★
Welcome.

In 2020, we launched JenkinsIsTheWay.io, a global showcase of how developers and engineers build, deploy, and automate great stuff with Jenkins.

Jenkins Is The Way is based on your stories. You shared how using Jenkins has helped make your builds faster, your pipelines more secure, and your developers and software engineers happier. In essence, Jenkins has made it a whole lot easier to do the work you do every day.

You've also shared the amazing stuff you are building: your innovation, your ingenuity, and your keen ability to adapt Jenkins plugins to handle everyday business issues. With this in mind, we share this ebook with you.

These half-dozen stories shine a spotlight on how Jenkins users solve unique software development challenges across industries and around the globe. They also illustrate how Jenkins community members build next-generation DevOps and CI/CD platforms, which serve as the backbone for software innovation across companies of all sizes.

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We applaud the excellent work you do. And we thank you for being part of our community.

Best regards,

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Alyssa and the Jenkins Advocacy & Outreach SIG



Alyssa Tong
Jenkins Events Officer 2020
and Advocacy & Outreach SIG

Jenkins Is The Way to space.

SUMMARY

A satellite's onboard computer is one of the core components directly responsible for mission success. It's necessary to include hardware-based testing in the CI process to catch potential hardware/software incompatibilities early-on.

CHALLENGE

When it's not possible to run "full" operating systems, the software is forced to work directly with hardware components. KP Labs sought to develop new software for the onboard computer of the 6U CubeSat satellite, a type of miniaturized satellite for space research.

SOLUTION

In their development process, KP Labs use a multibranch pipeline project with 'Jenkinsfile' describing a full build pipeline. Thanks to Jenkins being versioned, it is easy to test improvements without disrupting the work of other developers.

"Jenkins allows us to get fast feedback about codebase changes and ensure proper quality by efficiently managing engineering models."

Maciej Nowak
Software Engineer



RESULTS



Dramatically dropped hardware-related problems



Reduced waiting for free executor by using more nodes



Easy access to up-to-date documentation and memory usage reports

Jenkins Is The Way to make configuration-as-a-code possible.

SUMMARY

To support Preply's online education platform — and over 100,000 students and 25,000 tutors — the company's engineering team set out to create a fully automated CI/CD process for its software and development projects.

CHALLENGE

To maintain an 'everything as code' mantra, Preply looked to enhance the current Jenkins installation and eliminate manual intervention.

SOLUTION

Using a configuration-as-a-code only solution for all software development, made possible with Jenkins, Preply now has a flexible and scalable CI/CD pipeline that enables their team to introduce and accelerate the deployment of new builds without jeopardizing the entire service.

*"Jenkins made our
development easier.
Every engineer could make
any changes in any pipeline
through the Pull Request.
No manual changes,
only code!"*

Amet Umerov
DevOps Engineer



RESULTS



Release rate
increased
from 1 instance
a day to over 40



Deployment time
reduced
from 90 to
5-40 minutes



Rollback time decreased from
45 minutes to 60-120 seconds

Jenkins Is The Way to do things quickly, simply and powerfully.

SUMMARY

Avoris Travel, a unique travel company seeking to reinvent the travel industry, relies on an equally innovative technology platform fueled by Jenkins.

CHALLENGE

With over 200 developers relying on its infrastructure, Avoris needed a secure, easily customizable, and powerful CI/CD platform.

SOLUTION

Tapping into Jenkins' vast number of plugins, the team was able to build a scalable infrastructure supporting 675 agencies and over 2.8 million international consumers.

"Jenkins rocks because of the huge number of integration possibilities and plugins available, as well as its great community and resources available."

Alejandro Alvarez Vazquez
SysAdmin



RESULTS



For small apps,
build times cut
from 45 to
just 8 seconds



For legacy apps,
build times
shaved by
7-8 minutes



Final image generation time
reduced by 10-30 seconds

Jenkins Is The Way to scale from the ground up.

SUMMARY

Tymit, a revolutionary credit card processing company, needed to build a compliant, transparent, secure and modern DevOps platform to drive product innovation, handle instant financial transactions, and support thousands of users in real-time.

CHALLENGE

To create a solidly reliable CI/CD platform that provides the agility and the flexibility needed to support innovation while ensuring the security and scalability a reliable fintech service require.

SOLUTION

Tymit turned to Jenkins as the most dependable way to keep its platform evolving continuously and securely while enabling its technology team with every integration needed to scale across its three distinct platforms.

*"Jenkins has
all of the
key ingredients
required to be successful:
power, flexibility,
scalability and
community."*

Francisco De Lucas
Principal Software Engineer



RESULTS



Faster delivery
of mobile, microservices
and operational services



Ability to support
thousands of users for
real-time transactions



50% reduction
for software testing and release cycles

Jenkins Is The Way to cast magic of continuous delivery.

SUMMARY

JD.com, a leading internet e-commerce company in China, relies on a stable DevOps platform supporting rapid development and flawless delivery to over 400 million users.

CHALLENGE

To build a continuous delivery pipeline to cohesively align with a solid release plan that supports the diverse technology requirements of iOS, Android, Server, H5, React, and more.

SOLUTION

JD.com's technology team developed an end-to-end software delivery powered by Jenkins that provides a high availability CD platform to support thousands of applications.

"Jenkins is one of the greatest projects in the last 15 years and keeps evolving with fast cadency. Pipeline as code and DSL give us great inspiration while we design our platform."

Xuefeng Shi
Software Engineer



RESULTS



High availability
of continuous
delivery platform



Reduction in release cycle
from 1 hour to 10 minutes



One platform
supporting
multiple stacks

Jenkins Is The Way to automate continuous delivery pipelines.

SUMMARY

While migrating their legacy system to the cloud, leading Danish insurer Topdanmark once again relied on Jenkins, this time with an eye on moving towards a CI/CD solution.

CHALLENGE

To create a platform that allowed them to migrate away from handheld deployments and achieve a complete autonomous build process, from the cradle to the grave.

SOLUTION

Topdanmark landed on a Jenkins-powered server platform that runs client/customer-related business applications and the tooling services used to support consumers.

*"We used
Jenkins because almost
everyone knows what
Jenkins is and how to use it.
It is the 'de facto' product
to use in our world.
Extremely
configurable."*

Jon Brohauge
DevTools Engineer

Topdanmark
Forsikring · Pension 

RESULTS



100% automatic
creation of
Jenkins installations



Ability to release and
deploy an artifact
whenever, wherever



Happier software developers
plus smaller monoliths and containerization

Read Jon Brohauge's user story at [JenkinsIsTheWay.io](https://jenkinsistheway.io)

Thank You To Our Sponsors



The Continuous Delivery Foundation (CDF) serves as the vendor-neutral home of many of the fastest-growing projects for continuous integration/continuous delivery (CI/CD). It fosters vendor-neutral collaboration between the industry's top developers, end-users and vendors to further CI/CD best practices and industry specifications. Its mission is to grow and sustain projects that are part of the broad and growing continuous delivery ecosystem. For more information, visit <https://cd.foundation/>



CloudBees.

CloudBees, the enterprise software delivery company, provides the industry's leading DevOps technology platform. CloudBees enables developers to do what they do best: Build stuff that matters while providing peace of mind to management with powerful risk mitigation, compliance and governance tools. Used by 50% of the Fortune 100, CloudBees is helping thousands of companies harness the power of "continuous everything" while getting them on the fastest path from great ideas, to great software, to amazing customer experiences, to being a business that changes lives. For more information, visit www.cloudbees.com



About Jenkins

Jenkins is the leading open source automation server supported by a large and growing community of developers, testers, designers and others interested in continuous integration, continuous delivery and modern software delivery practices. Built on the Java Virtual Machine (JVM), it provides more than 1,500 plugins that extend Jenkins to automate with practically any technology software delivery teams use. In 2019, Jenkins surpassed 200,000 known installations making it the most widely deployed automation server. For more information, visit <https://www.jenkins.io/>

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