



Drive DevOps adoption with **GitHub** and **Visual Studio**

Leverage open-source software to deliver fast, efficient product innovation and give your developers the best tools



Visual Studio with GitHub Enterprise

The easiest and most economical way for Visual Studio customers to acquire GitHub Enterprise.

Best-in-class integrated development environment for any developer.

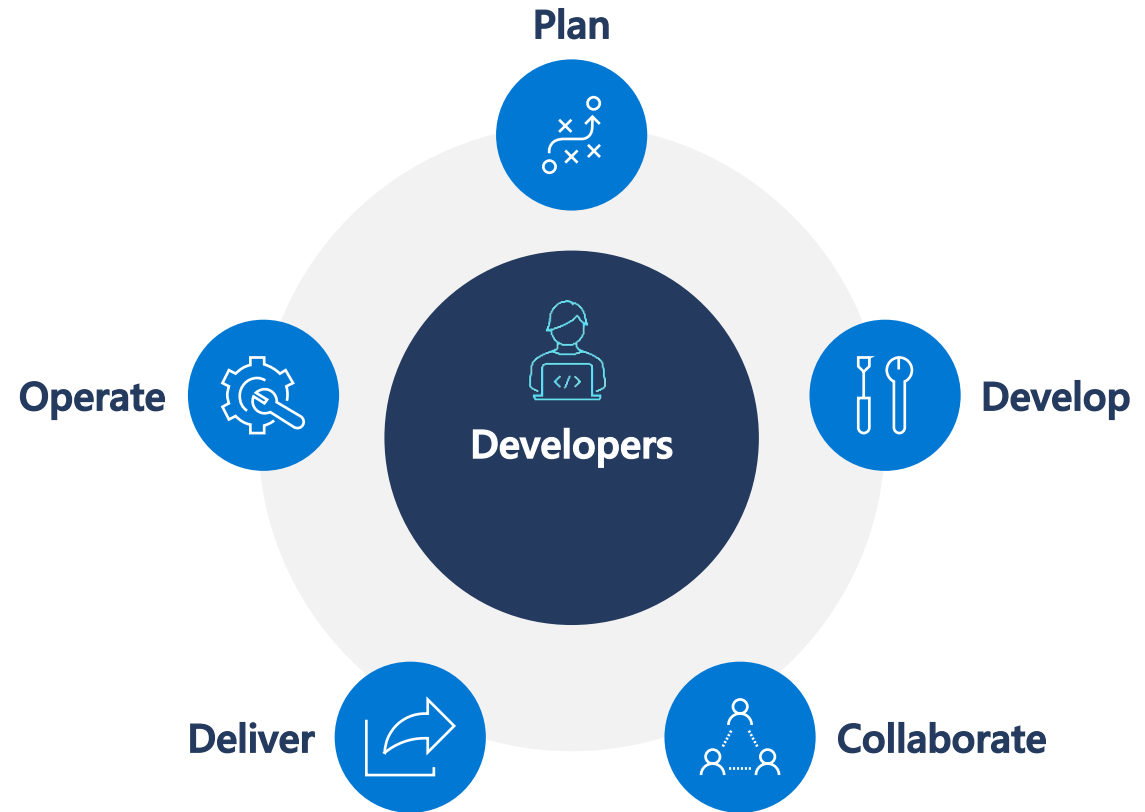


The #1 developer community on the planet.



- **Innovate at scale** and deliver fast by modernizing your tool chain and adopting premier social coding workflows in your organization.
- **Reduce ramp-up time on Git** and be more productive with built-in GitHub extensions in Visual Studio.
- **Plan smarter and ship faster** with native integrations of GitHub Enterprise with Azure DevOps.

Developers are at the core of innovation



It's not just your traditional competitors who recognize this. There's **a new class of competitors** who are starting with disruptive software and working backwards into your industry.

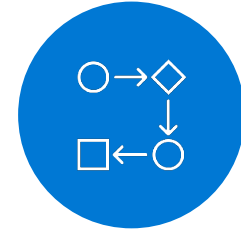
Increase developer velocity



GitHub is the social coding experience
trusted by more
than 40+
million developers.



Work seamlessly
across your
organization on a
platform designed
for collaboration.



Embrace innersource,
iterate faster, and
ship more frequently
using best practices
from open-source
teams.

- Would you choose software created by a handful of isolated developers or software crafted by thousands working collaboratively to make a stronger build?

99%

of large
enterprise
applications
leverage
open source
software.

Innovate at scale. Deliver with confidence.



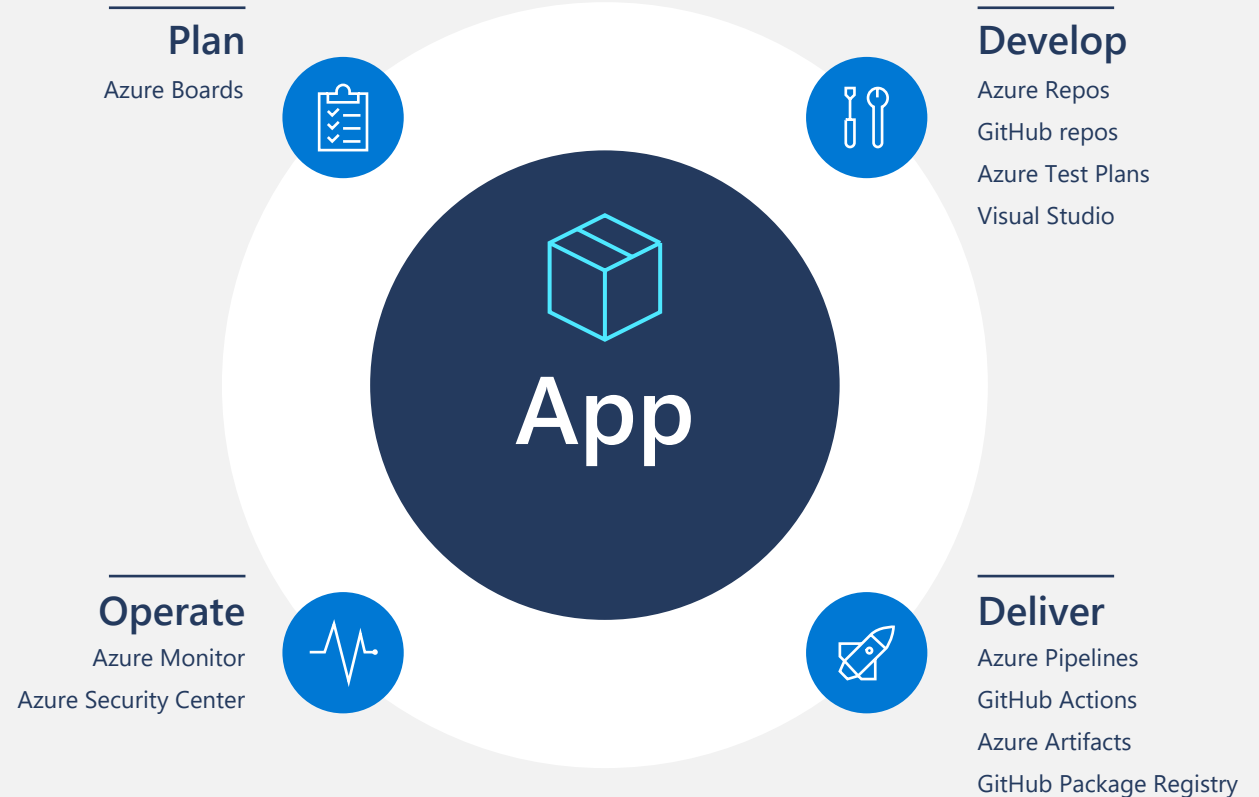
Microsoft Azure is the cloud with developer services built-in.

and

GitHub is building on this foundation to become Microsoft's core DevOps Platform.

and

Visual Studio is a developer environment used for software development to edit, debug, and build code.



Leverage Microsoft DevOps with GitHub

to deliver fast,
efficient innovation

Product innovation



Improved app performance, scalability, and resiliency in cloud.

Multilevel collaboration and expertise sharing.

Autonomous innovation & project management.

Delivery Speed



Stronger performance with faster build times.

Continuous integration.

Code tests and staged environment releases.

Flexibility & control

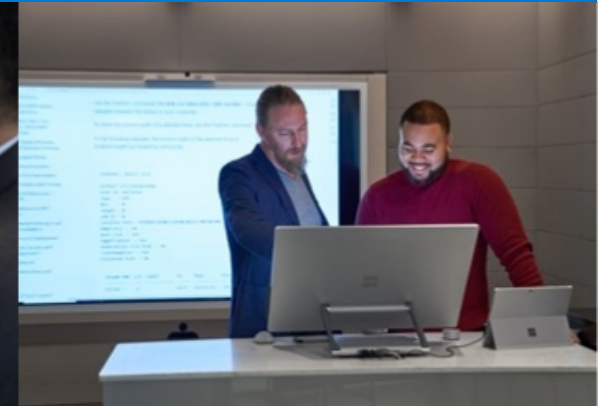


Any language, any platform, any cloud.

Control and support over your entire cloud state.

Management at every stage of app development.

Security



Code protection with end-to-end security.

Automatic governance policy checks & validations, enforced post-deployment.

Vulnerability reviews and extended support.

Product innovation

Reliable, scalable management tools at every level, with a diverse community behind it all.



Improved app performance, scalability, and resiliency

- Enhance the performance, scalability, and resiliency of your apps by moving them to cloud.
- Utilize container jobs to create consistent, reliable builds.
- Safeguard against code errors and prevent added downtime and data loss if they occur.
- Scale agile tools across the entire enterprise.

Multilevel collaboration and expertise sharing

- Employ advanced project development with boards, interactive backlogs, and planning tools.
- Connect your team by sharing code efficiently and securely.
- Perform more effective code reviews with threaded discussion and continuous integration.
- Track pull requests to evolve projects, propose new features, and discuss implementation.

Autonomous innovation & project management

- Automate your progress from idea to production with community-powered workflows.
- Identify and address issues to suggest new ideas or track bugs.
- Organize and assign tasks to your team.
- Use built-in scrum boards and planning tools to help your teams mobilize.

Delivery speed

In order to innovate, businesses need to move fast.



Stronger performance with faster build times

- Ensure faster ship times, better collaboration, and smarter planning with modern dev services.
- Gather new insights with powerful analytics tools and dashboard widgets.
- Enable improved code reuse and increased velocity.

Continuous integration

- Accommodate for growth, team changes, and technological shifts.
- Automate the build and testing of code every time a team member commits changes to version control.
- Leverage modern version control systems such as Git to create short-lived feature branches to isolate work.

Code tests and staged environment releases

- Improve your code quality using planned and exploratory testing services across desktop or web devices.
- Create environment rings for pre-release testing to scoped users.
- Test and ship with confidence using manual and exploratory testing tools.

Flexibility & control

Any developer, any cloud. Use the tools of your choice—just bring code.



Any language, any platform, any cloud	Control and support over your entire cloud state	Management at every stage of app development
<ul style="list-style-type: none">▪ Build, test, and deploy in any language, to any cloud—or on -premises.▪ Use Git and TFVC repositories on Azure Repos with your favorite editor and IDE.▪ Discover new tools for every step of the development process—or just create your own.	<ul style="list-style-type: none">▪ Manage your entire cloud security state, what environments exist, and who can access them.▪ Find your best deployment strategy by using stages, gates, and approvals.▪ Access native support for containers and Kubernetes.	<ul style="list-style-type: none">▪ Use templates, custom images, and formulas to reproduce environments.▪ Create workflows with tools from Microsoft, open source, or 3rd party tools.▪ Address fewer issues post-deployment, with less downtime and more reliable products.

Security

A trusted, best-in-class leader in security.



Code protection with end-to-end security

- Unify your code and documentation into one space.
- Manage which collaborators have access to codebases.
- Employ secret scanning to monitor credentials.



Automatic governance policy checks & validations

- Apply security and governance checks on the go.
- Define specific metrics to drive action and support compliance objectives.
- Analyze and keep an inventory of third-party components.



Vulnerability reviews and extended support

- Review every security vulnerability to identify and alert affected repositories.
- Access high level support with GitHub Security Advisories and open-source maintainers.
- Perform threat modeling with a structured approach.

Accelerating delivery with DevOps and Visual Studio



Your product needs to reach customers quickly and stay available.

- Shared goals and tooling.
- Collaboration.
- Process automation.
- Continuous delivery and improvement.



Codespaces

Your instant dev environment.

Code without compromise

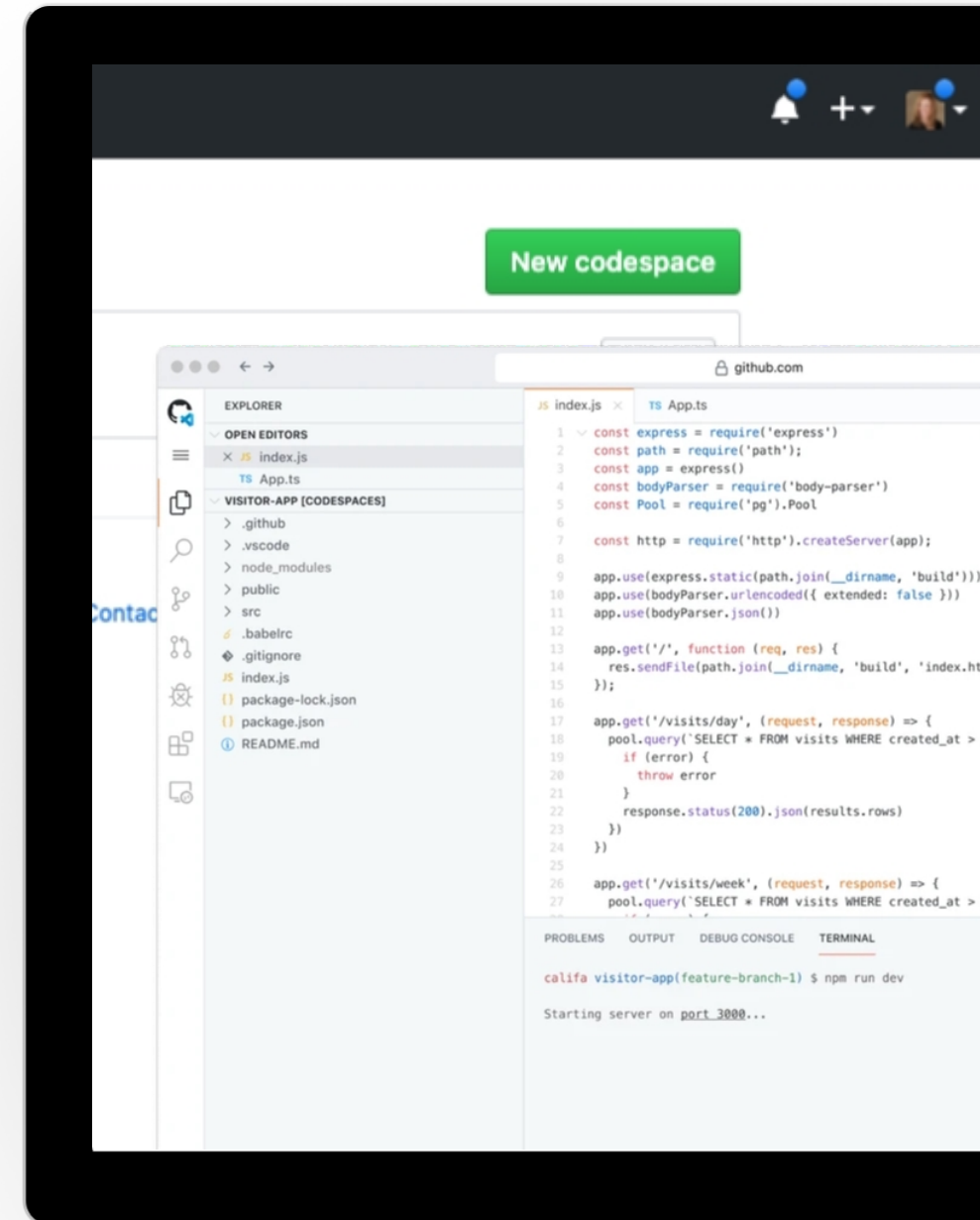
Code, build, test, debug, and deploy with a complete development environment in your browser.

Simplify your workflow

Automatically set up dependencies and SSH keys. Go from code to commit faster on any project.

Extend and customize

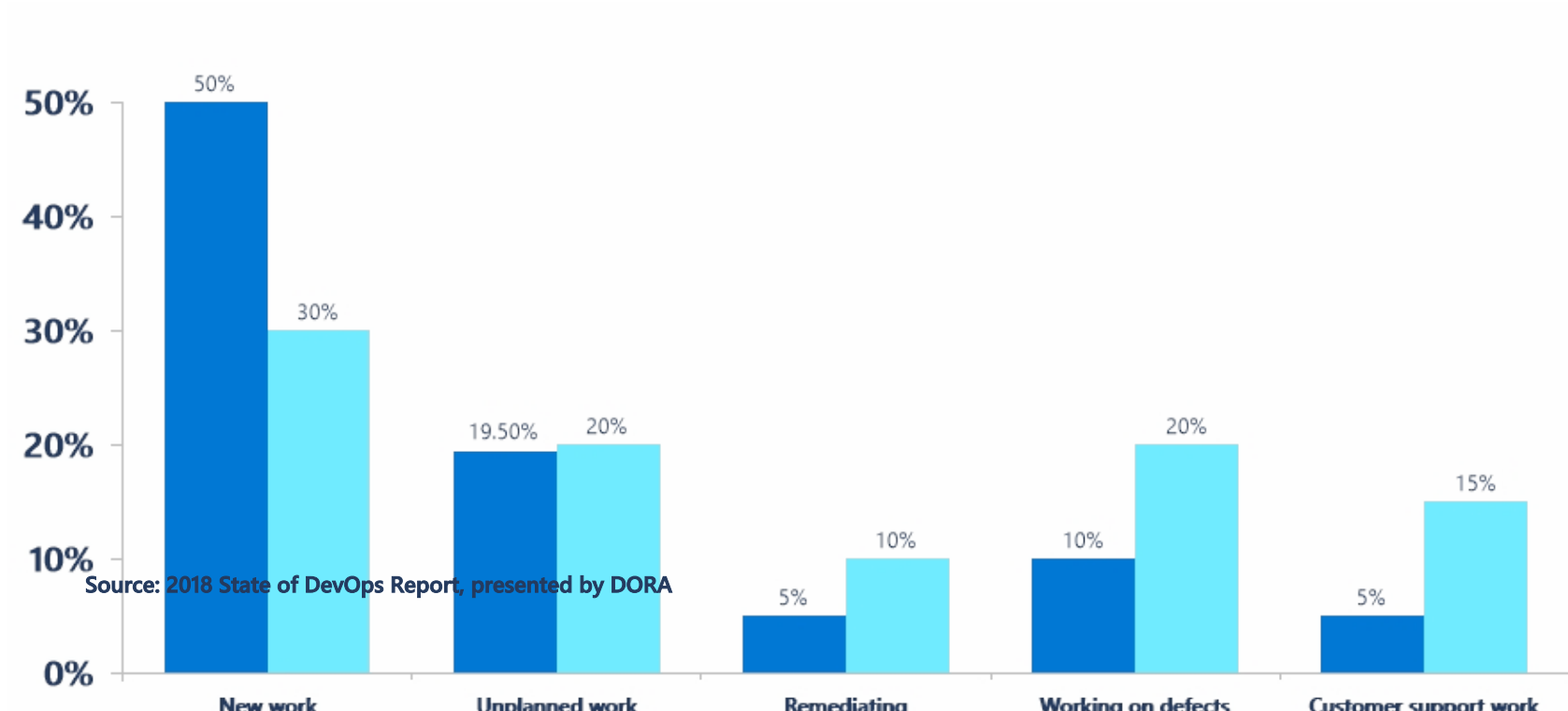
Configure your editor with dotfiles and VS Code extensions to create a consistent environment in every codespace.



Innovation with control

Top performing DevOps companies spend more time innovating and less time “keeping the lights on.” ☆ ☆ ☆

Time spent



Deploy continuously and compliantly

Enterprise-grade security, monitoring, and management services built-in.



Governance

Proactively apply policies and enable compliant releases.

**Azure
Policy & Blueprints**



Security

Industry-leading security with advanced threat protection.

**Azure
Security Center**



Resiliency

High availability and protection for VMs, apps, and data.

**Azure
Backup & Site Recovery**



Monitoring

Deep operational insights with rich intelligence.

**Azure
Monitor**



Automate

Powerful scripting, configuration, and update management.

**Azure
Automation**



Building a new website using a rich, flexible developer toolset

Chose Visual Studio Code as an IDE to stay as flexible as possible.

Leveraged extensions from the community to make coding even easier.

Incorporated Azure DevOps to have development infrastructure running on a fully-managed service with minimal IT maintenance.

“With a rich toolset, maintaining the company’s web presence will be much easier moving forward. Visual Studio Code provides great productivity—it loads quickly, runs smoothly on Windows computers and Macs, and lets us use the same IDE across different platforms.”

—Mike Smith, Lead Software Developer





Empowering collaboration to accelerate development

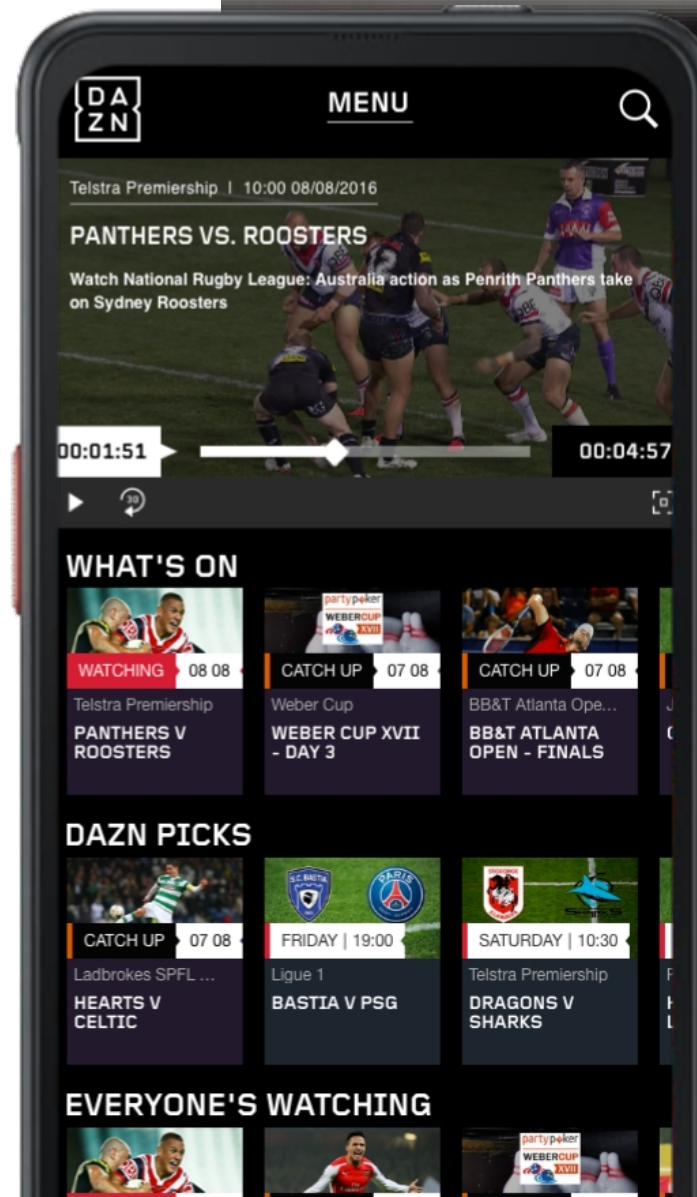
Scale without sacrificing performance or resilience.

Collaborate across teams and projects.

Recruit high quality developer talent.

“One of the drivers of GitHub is developer familiarity. You know that anyone you hire will know GitHub.”

—Matthew Seaborn, Architecture Director





Accelerating software development with open source

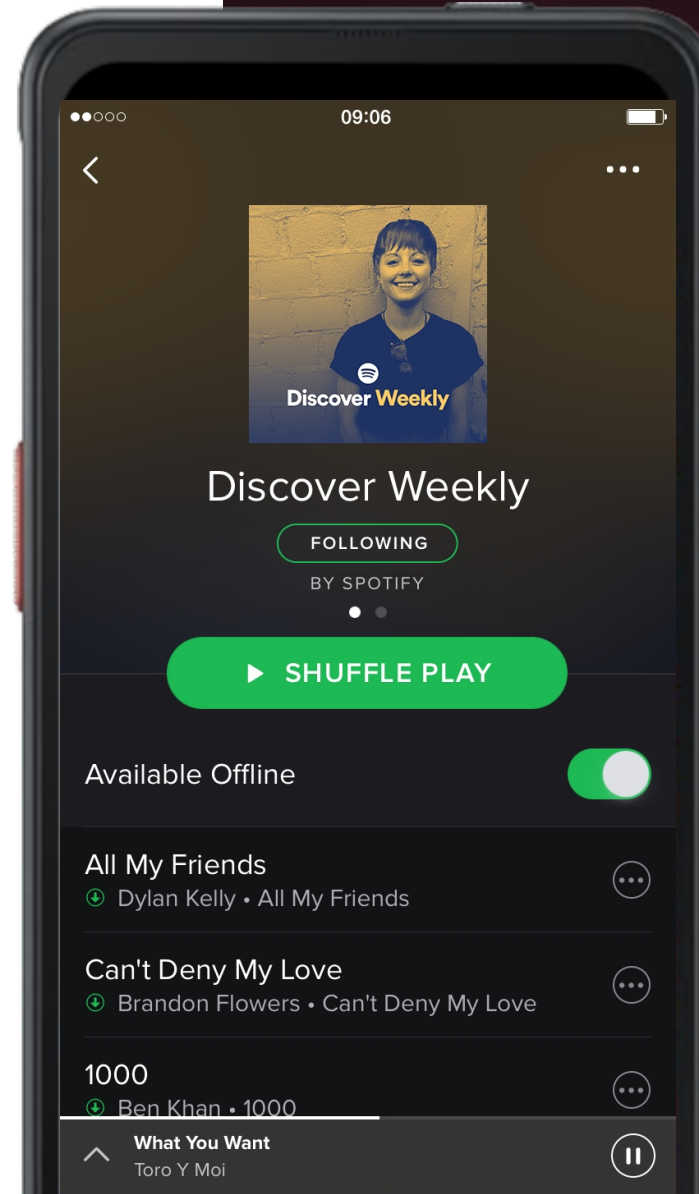
Committed to an open-source model to build more robust software, faster.

Facilitates code discoverability and reuse throughout the organization.

Inner-sourcing allows Spotify to maintain the benefits of open source in proprietary projects.

“People know what a pull request is because it’s how they contribute to open-source projects. With GitHub Enterprise, no one has to relearn the wheel.”

—Laurent Ploix, Product Manager



Next steps

Let's get started on your journey...



Identify potential scenarios



Partner



Work together to
create your roadmap
To implement DevOps

Thank you.