Continuous Integration & Continuous Deployment (CI/CD) with a Cloud Delivery Platform
DevOps – The What and Why

**WHAT**

DevOps brings development and operations together and automates the software delivery pipeline.

**WHY**

Empower engineers to ship code at higher velocity to better serve customers and give your business a competitive edge.

Infrastructure & Operations (I&O) teams must pursue the rapid delivery of applications to provide differentiated customer experiences that meet accelerating business expectations. Faster delivery alone merely leads to customer disappointment when the software delivery process is substandard, deferring to velocity without quality. Automating the movement and deployment of infrastructure, middleware, and applications through testing is a key pain point for I&O teams today.

- Forrester
Cloud Delivery Network – The What and Why

**WHAT**

- A highly distributed network of servers that responds directly to end-user requests for web content.
- Acts as the intermediary between a content server, also known as the origin, and its end users or clients.

**WHY**

- Prevents origin failure if the traffic spikes.
- Offloads traffic from content servers and improves the web experience.
Top Five Challenges of Automating your CI/CD Workflows with a CDN

1. Managing configuration details with same discipline as managing source code.
2. Automating testing in a production-like environment.
3. Automating the software delivery pipeline.
4. Monitoring and reacting to application health in real time.
5. Ensuring every change that passes testing is automatically and quickly deployed into production.
Overcoming CI/CD Automation Challenges

You can overcome these challenges by:

- Choosing a CDN that seamlessly fits into your existing CI/CD workflows
- Allows you to automate & manage your CDN just like any other element in your deployment process

**RESULTS:** TIME SAVINGS BY AVOIDING REPETITIVE MANUAL PROCESSES
AUTOMATE

• Simplify property creation with a Command Line Interface (CLI)
• Use an API to modify and activate property configs with code
• Make, test, and deploy changes into production in minutes, multiple times a day
• Perform load testing in pre-production at scale
• Test Akamai configs earlier in the application lifecycle in a production-like environment
• Out-of-the-box integrations for third-party DevOps tools: Varnish, WordPress, Terraform, and more
• Ensure content consistency with plugins to common Content Management Systems
• Monitor customer experience in real time, and quantify impact on business outcomes
• Gain raw real-time insights and access summarized stats for response rates, traffic volumes, and more
• Capture security events generated on the Akamai platform in your SIEM application
• Fast and flexible purging allows for quick content updates
• Fast fallback as necessary to recall previous cached “safe” production content
• Open-source Edge logic to manage operations seamlessly: Choose where the app should be assembled, coalesce related API calls into a single API call, and more
• Smart, scalable apps at the Edge provide out-of-the-box functionality for visitor prioritization, phased release, load balancing, audience segmentation, and more
• Add new capabilities to your app with SDKs
• Protect APIs from malicious calls with positive and negative security models
Akamai for DevOps

Akamai for DevOps helps you deliver a superior customer experience and differentiate from competitors by:

- Integrating seamlessly into your existing CI/CD automation workflow and DevOps tools
- Enabling you to monitor application health in real time
- Providing you with the tools you need to optimize operations
Akamai for DevOps

LEARN MORE ABOUT AKAMAI FOR DEVOPS HERE BY VIEWING OUR SOLUTION BRIEF.