Progress® Sitefinity®

# Sitefinity Cloud

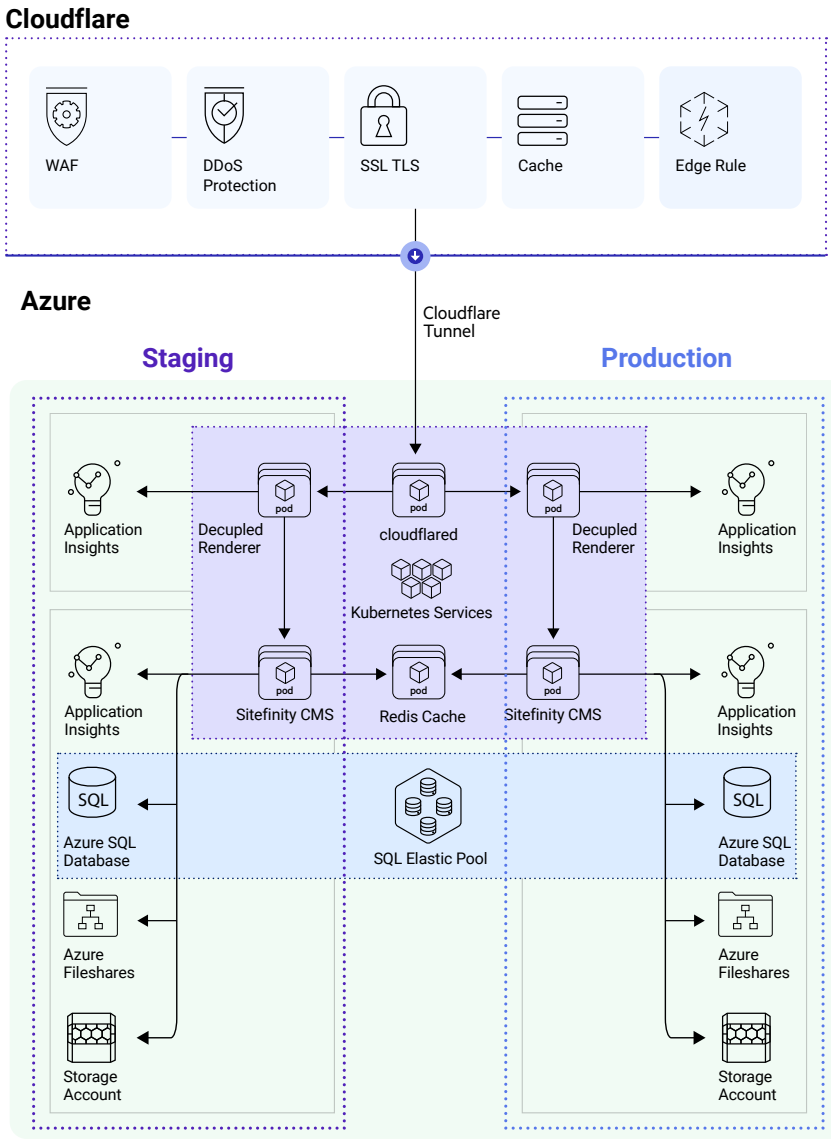
Progress® Sitefinity® Cloud is an AI-powered cloud-native digital experience platform designed for enterprise-grade content and experience management. Hosted on Microsoft Azure and operated by Progress, it delivers globally available infrastructure optimized for performance, security, scalability and developer productivity.

TECHNICAL DATA SHEET

# Architecture & Infrastructure

Sitefinity Cloud is architected as a modern, cloud-native digital experience platform, hosted on Microsoft Azure and operated by Progress. It combines scalable infrastructure, integrated DevOps tooling and enterprise-grade services to support complex content operations and high-performance digital experiences.

## Sitefinity Cloud Architecture (Azure)




- AKS Deployment
- Multiple environments
- Triple redundancy
- Logical single tenancy
- Decoupled FE app
- SQL and Blob storage
- Integrated search

**Integrated DevOps:**

- Code repos
- Pipelines
- Dashboard
- Domains
- Users
- Wiki

**Elastic Architecture for Enterprise Scale**

Built on Azure Kubernetes Service (AKS), Sitefinity Cloud offers elastic scalability and high availability. Its containerized deployment model supports large-scale projects with load balancing and zone redundancy, delivering consistent performance under varying workloads.

**Integrated DevOps Tooling**

The Sitefinity Cloud Management Portal is powered by Azure DevOps and provides access to Git-based source control, gated CI/CD pipelines and preconfigured monitoring dashboards. This enables teams to manage the full development lifecycle—from code commits to production deployments—with complete visibility and control.

**Environment Isolation**

Each Sitefinity Cloud subscription includes dedicated Production and Staging environments, each with its own separate web app, database and blob storage. These environments are fully isolated to support parallel development and testing workflows, with additional environments available as add-ons.

**Content Delivery Network (CDN)**

Cloudflare CDN is tightly integrated to deliver maximum client-side performance. It caches pages (HTML) and static resources (e.g., images, scripts, stylesheets) at edge nodes worldwide and includes built-in DDoS protection and a Web Application Firewall (WAF) configured to defend against OWASP Top 10 vulnerabilities.

**Redis Cache**

Sitefinity Cloud uses Azure Cache for Redis for communication between servers as well as distributed output cache. This reduces database calls and accelerates page rendering so that all web server instances share a unified cache, especially after deployments or scale-out events.

**SQL Database**

The platform includes a scalable Azure SQL Database, optimized for high performance and secure data storage. It supports automated backups with point-in-time restore capabilities and is protected by Transparent Data Encryption (TDE) and network-level security rules.

**Lucene Search and Azure Cognitive Search Add-on**

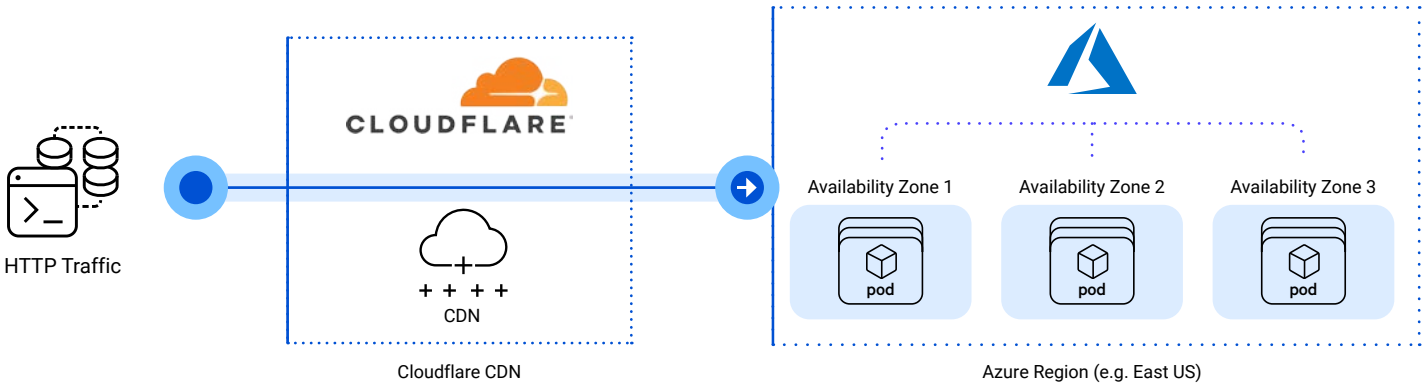
Sitefinity Cloud includes Lucene-based full-text search. For advanced semantic search, multilingual indexing and AI-augmented ranking, Azure Cognitive Search is available as an add-on.

**Blob Storage**

Azure Blob Storage is used for media assets. Each environment includes a dedicated blob container and customers can extend capacity with add-ons such as 1TB of external media storage.

# Availability

Sitefinity Cloud is built to support uninterrupted digital operations through a CDN, zone redundant infrastructure, intelligent scaling and built-in operational resilience. The platform is designed to maintain responsiveness and uptime—even during peak traffic, infrastructure disruptions or seasonal demand.




**Global Cloud Infrastructure**

Sitefinity Cloud uses CDN edge servers around the globe that cache pages, images, styles, scripts, etc., to deliver high availability and performance at scale. By bringing digital experiences closer to end users, the platform reduces latency and supports consistent engagement across geographies.

**Triple Zone Redundancy**

Applications are deployed across three independent availability zones within the same Azure region. This architecture isolates workloads across physically separate data centers, providing fault tolerance and high availability. In the event of a zone-level failure, services remain operational without requiring manual intervention or regional failover.

**Auto-Scaling Environments**

Resources scale automatically based on real-time demand. This elasticity helps maintain application responsiveness without overprovisioning or manual scaling, supporting both performance and cost-efficiency.

**Built-In CI/CD Automation**

Sitefinity Cloud includes integrated CI/CD pipelines powered by Azure DevOps. Developers can deploy packages to staging, promote them to production, restart applications and manage database exports and restores—all from a centralized management portal. These workflows support gated approvals, rollback options and zero-downtime deployments.

**Integrated Monitoring and Diagnostics**

Preconfigured dashboards and monitoring tools provide visibility into system health and performance. Teams can track request execution, failure patterns and both server- and client-side metrics to detect and address issues quickly.

**Application Insights**

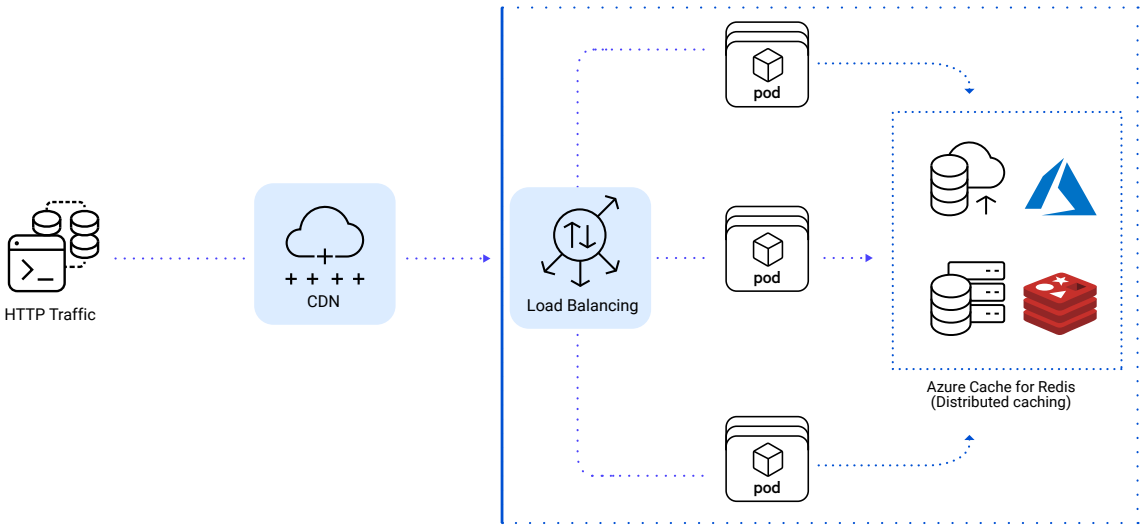
Azure Application Insights delivers detailed telemetry on availability, server response times and request failures. Teams can analyze trends, drill into specific timeframes and optimize performance across distributed systems.

**Security Event Monitoring**

Security Information and Event Management (SIEM) is integrated for real-time monitoring, threat detection and incident response. Azure Sentinel powers centralized alerting, while the Progress On-Duty Team actively monitors and responds to high-severity events

# Performance

Sitefinity Cloud is optimized to deliver fast, reliable digital experiences across high-traffic, multisite environments. Its performance architecture combines intelligent caching, edge acceleration and automated diagnostics to support consistent delivery at scale.




**Built-In Optimization for Speed and Scale**

The platform includes performance enhancements that accelerate page load times and maintain responsiveness regardless of audience size or content volume. These optimizations are applied across both server-side and client-side operations.

**CDN Acceleration**

A global content delivery network (CDN) caches content closer to users, reducing latency and improving load times. The CDN also enhances security by isolating edge traffic and mitigating DDoS threats.

**Distributed Caching**

Sitefinity Cloud uses Azure Cache for Redis to distribute output cache across all web server instances. This shared caching model reduces database calls and accelerates content delivery after deployments or scale-out events.

**Automated Cache Warmup**

When cache is invalidated—such as after a deployment—an automated warmup process preloads updated content into the cache. This allows pages to be served immediately without performance degradation.

**Integrated Monitoring and Diagnostics**

Preconfigured dashboards and monitoring tools provide visibility into system health and performance. Teams can track request execution, failure patterns and both server- and client-side metrics to detect and address issues quickly.

**In-Depth Diagnostics**

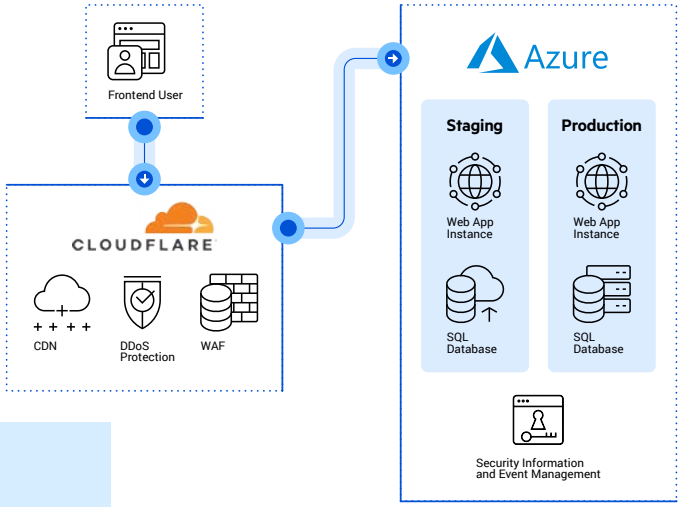
Performance dashboards and telemetry tools provide detailed insights into request execution, failure patterns and system behavior. These diagnostics help pinpoint bottlenecks and support continuous optimization across distributed systems.

**Integrated Monitoring**

Sitefinity Cloud includes built-in monitoring tools that track performance metrics in real time. Preconfigured dashboards display server response times, availability and request failures, helping teams maintain a responsive digital presence.

# Security

Sitefinity Cloud incorporates multiple layers of protection across infrastructure, application and operational workflows. The platform is designed to support secure governance of content, data and user access—meeting the demands of regulated industries and enterprise-grade deployments.




### Web Application Firewall and DDoS Protection

Sitefinity Cloud integrates Cloudflare's Web Application Firewall (WAF) to help protect against common vulnerabilities such as cross-site scripting (XSS), SQL injection and clickjacking. The platform also benefits from Cloudflare's global DDoS mitigation network, which isolates edge traffic and reacts to threats in real time.

### Security Information and Event Management (SIEM)

Real-time monitoring and threat detection are supported through built-in SIEM capabilities. Azure Sentinel powers centralized alerting and incident response, while a premium add-on extends functionality with long-term log retention, HTTP traffic analysis and log forwarding.

### Web Security Module

The built-in Web Security Module allows administrators to configure HTTP security headers, enforce redirect and referrer validation and apply content security policies. These controls help reduce exposure to client-side and server-side threats, including man-in-the-middle attacks and content sniffing.

### Endpoint Protection

Sitefinity Cloud environments are continuously monitored to surface actionable insights and recommendations. This helps teams maintain a strong security posture across all active environments.

### Data Encryption and Backup

All data—including files, databases, logs and indexes—is encrypted in transit and at rest. Azure SQL Database includes automated backups with point-in-time restore capabilities.

Transparent Data Encryption (TDE) protects stored data and production databases support automatic obfuscation when restored to non-production environments.

### Identity and Access Management

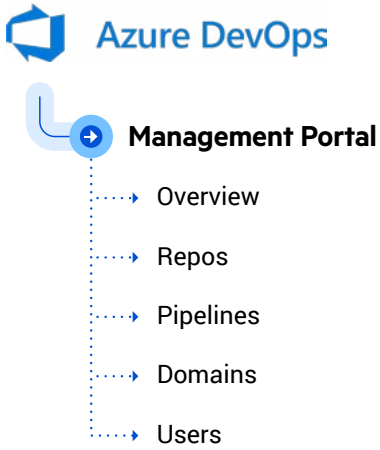
Sitefinity Cloud integrates with Azure Entra ID (formerly Azure Active Directory) to support secure identity and access management. Organizations can centrally manage users and roles across the Cloud Management Portal and Sitefinity platform, with support for single sign-on and granular permissions.

### Compliance and Certifications

The platform is certified for SOC2 and SOC TSP, supporting secure governance of infrastructure, code and data. Built-in risk mitigation features help organizations meet GDPR, HIPAA and other regulatory requirements. Personal data workflows include field mapping, removal routines and automated obfuscation for staging restores.

More about Sitefinity Cloud regulatory compliance.

# Administration



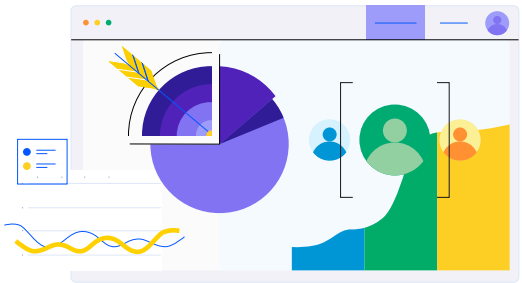

Sitefinity Cloud provides a unified management experience that gives teams full control over users, environments, deployments and configurations. The platform is designed to simplify administration while supporting enterprise governance and operational agility.

**Management Portal**

The Cloud Management Portal serves as the central hub for managing users, environments, services and domains. It integrates with Azure DevOps to support deployment workflows and infrastructure visibility, giving teams a single interface to oversee the entire project lifecycle.

**User and Role Management**

User access is managed through Azure Entra ID (formerly Azure Active Directory), which supports single sign-on and granular role assignment. Administrators can invite team members, assign permissions and manage authentication across both the Cloud Management Portal and Sitefinity backend.



**Self-Service Domain Management**

Domains can be registered, validated and secured with SSL certificates directly within the portal. This self-service model simplifies multisite operations and supports secure domain provisioning across environments.

**Environment Control**

Sitefinity Cloud supports multiple load-balanced environments tailored to development and content workflows. Administrators can configure staging, user acceptance testing and content authoring spaces to match organizational needs.

**CI/CD Configuration and Oversight**

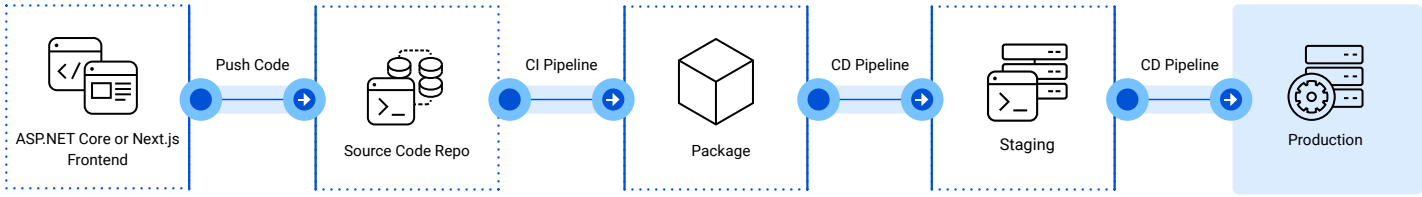
Operational teams can manage deployment pipelines through Azure DevOps, including actions such as restarting applications, exporting/importing databases and promoting packages between environments. These controls are accessible via the portal and support gated approvals and rollback workflows.

**Performance Dashboards**

Preconfigured dashboards provide visibility into infrastructure metrics such as uptime, CPU usage, memory availability and request execution time. These insights help teams monitor

# Development

Sitefinity Cloud supports modern development workflows with built-in automation, flexible environment configuration and full-code extensibility. The platform is designed to accelerate delivery cycles while maintaining governance and performance across enterprise-grade projects.




## Environment Configuration

Developers work across isolated environments that could be configured for things like staging, content authoring and user acceptance testing. These environments are load-balanced and support safe iteration before syncing to production.

### ASP.NET Core and Next.js Renderer

The decoupled ASP.NET Core or Next.js Renderer in Sitefinity Cloud enable you to take advantage of a three-tier application architecture and build your frontend presentation layer. For more information, see Three-tier architecture.

### Developer Extensions

In a default Sitefinity Cloud setup, Sitefinity CMS is provided as a service that is fully managed by Progress Software (a.k.a. **SaaS** setup). In case customizations of the Sitefinity CMS core product are needed, enabling a Developer Extensions toggle will allow for that. With this option Sitefinity CMS is provided as a customizable application and is managed by the customer.

### Low-Code System Integration

Sitefinity Cloud supports low-code integration through service hooks and the Integration Hub. These tools simplify connectivity with middleware, CRMs, marketing automation platforms and other business systems—reducing implementation effort and accelerating time to value.

### Integrated CI/CD Pipelines

Developers use gated CI/CD pipelines powered by Azure DevOps to build, test and release code. These pipelines automate deployment to Cloud environments, support rollback and failover and integrate with Git-based version control. Learn more about the CI/CD process in Sitefinity Cloud.

### Code Repositories

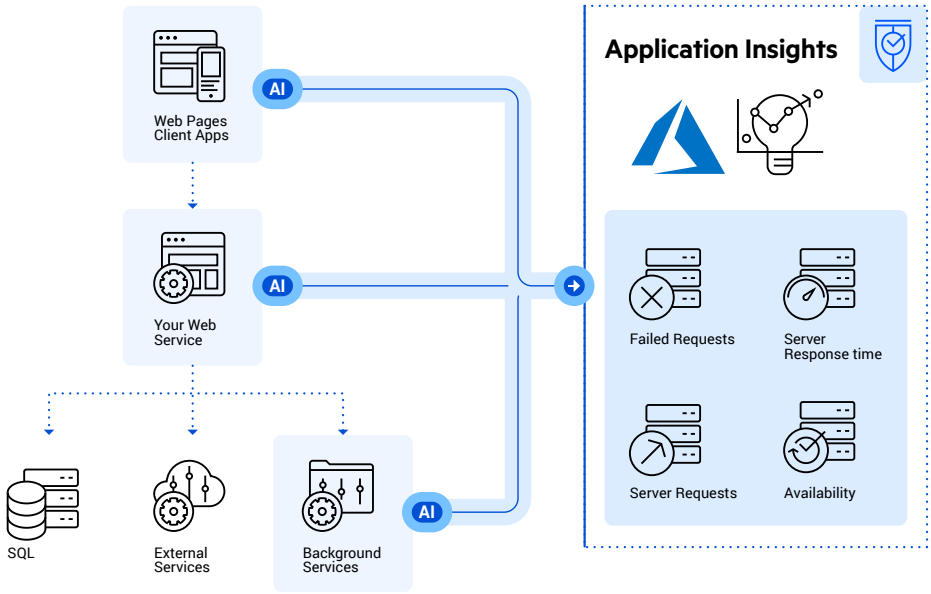
Each Sitefinity Cloud subscription includes private Git repositories for managing source code. External repositories such as GitHub, Bitbucket or Azure DevOps Code Repo can also be connected to support distributed development workflows.

### Headless Content Management

The platform supports headless delivery through robust APIs for content, presentation and personalization. Developers can build decoupled applications using OData and GraphQL endpoints, enabling flexible integration across web, mobile and third-party channels.

# Monitoring & Troubleshooting

Sitefinity Cloud provides integrated tools for monitoring application health, diagnosing performance issues and supporting proactive troubleshooting. These capabilities help teams maintain operational visibility and respond quickly to emerging issues across distributed environments.




### Integrated Monitoring

The platform includes built-in monitoring tools and preconfigured dashboards that track key performance indicators such as uptime, server response time, request execution and failure patterns. These dashboards are accessible through the Cloud Management Portal and provide real-time insights into system health.

### Performance Dashboards

Teams can access detailed infrastructure metrics including CPU usage, memory availability and request latency. These dashboards help identify trends, detect anomalies and support informed decision-making around resource allocation and performance tuning.

### Application Insights

Sitefinity Cloud integrates with Azure Application Insights to deliver telemetry across Cloud environments. This includes granular data on request failures, load times and service responsiveness, enabling teams to pinpoint bottlenecks and optimize performance.

### In-Depth Diagnostics

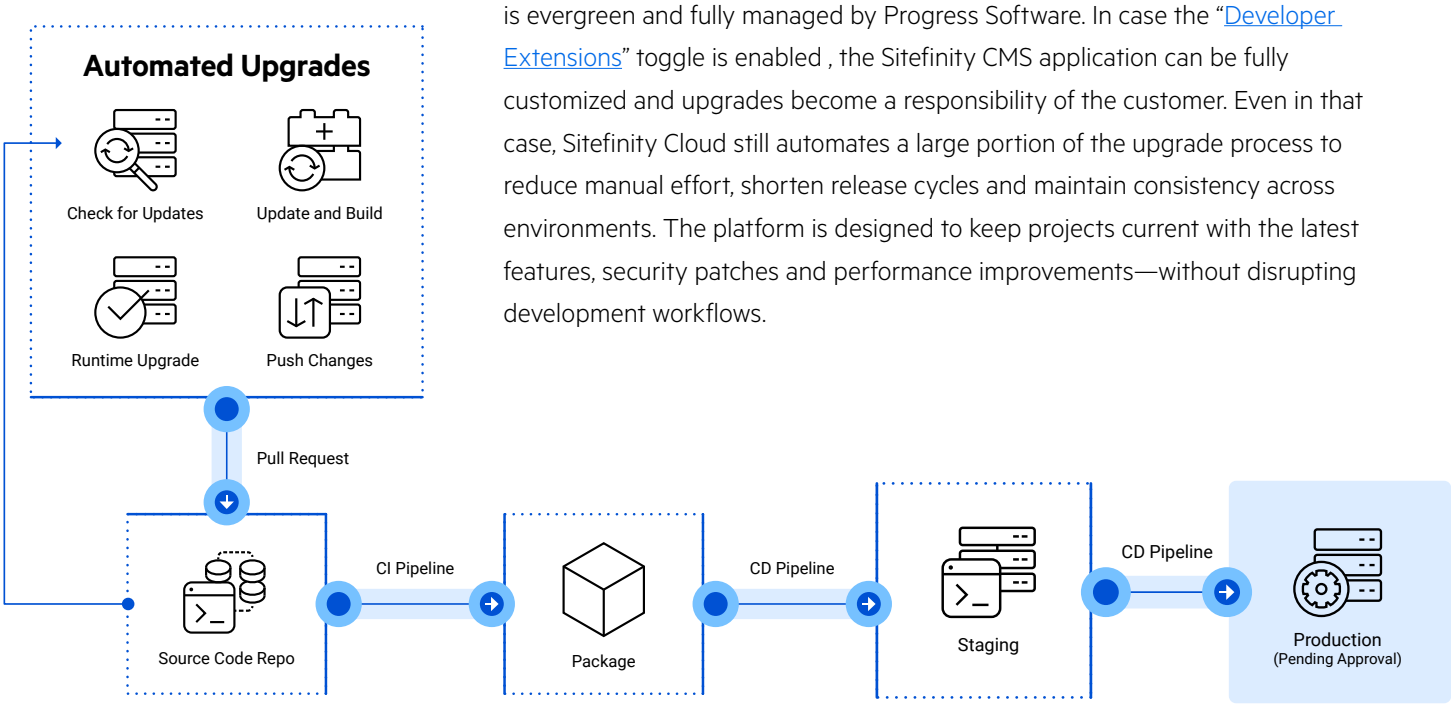
Advanced diagnostics provide visibility into both server-side and client-side operations. Developers can analyze execution paths, trace errors and evaluate dependencies to resolve issues efficiently and maintain a responsive user experience.

### Troubleshooting Workflows

Operational teams can restart applications, roll back deployments and manage database restores directly from the Cloud Management Portal. These workflows are designed to support fast recovery and minimal disruption during incident response.

# Upgrades

In Sitefinity Cloud by default, Sitefinity CMS is provided as a servicewhere it is evergreen and fully managed by Progress Software. In case the "Developer Extensions" toggle is enabled , the Sitefinity CMS application can be fully customized and upgrades become a responsibility of the customer. Even in that case, Sitefinity Cloud still automates a large portion of the upgrade process to reduce manual effort, shorten release cycles and maintain consistency across environments. The platform is designed to keep projects current with the latest features, security patches and performance improvements—without disrupting development workflows.




**Detailed guidance is available to help teams understand the upgrade process and prepare for new releases. Learn more about automated upgrades in Sitefinity Cloud.**

**Learn More about Sitefinity Cloud:**
www.progress.com/sitefinity-cms/cloud

## About Progress

Progress Software (Nasdaq: PRGS) empowers organizations to achieve transformational success in the face of disruptive change. Our software enables our customers to develop, deploy and manage responsible AI-powered applications and digital experiences with agility and ease. Customers get a trusted provider in Progress, with the products, expertise and vision they need to succeed. Over 4 million developers and technologists at hundreds of thousands of enterprises depend on Progress. Learn more at www.progress.com.



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