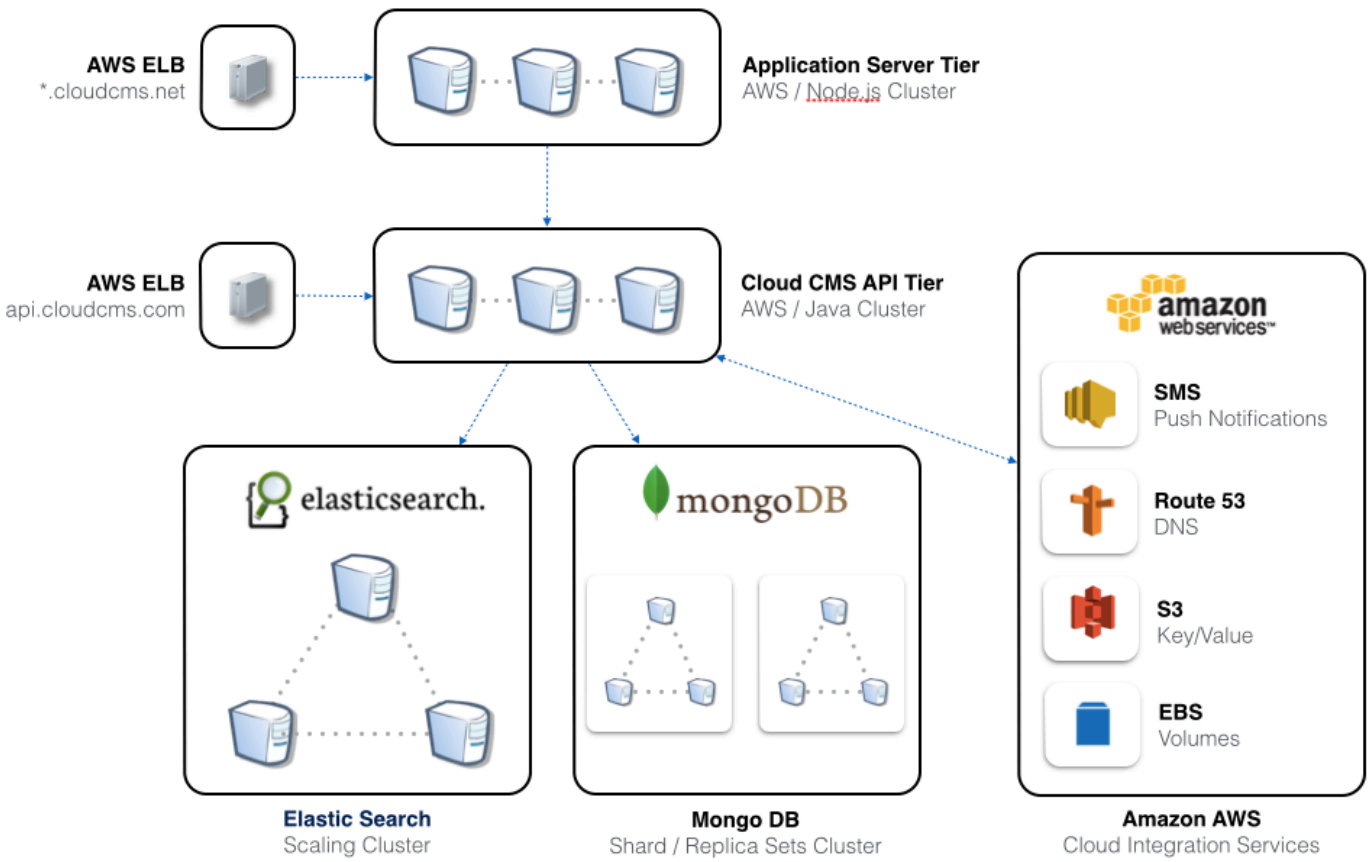
The Cloud CMS Architecture



Content Management done right – the focus is on the Content

Cloud CMS is the only Content Management System (CMS) that was built from the ground-up on top of scalable and elastic cloud technologies. We run on Amazon EC2 using a distributed architecture that scales to the needs of your business.

When your applications need more juice, our infrastructure automatically provisions more servers. When traffic calms back down, those extra servers are taken offline. That way, you only ever pay for what you absolutely need.

Application Server Tier
(AWS/Node.js Cluster):

The Cloud CMS application tier hosts your HTML5 web sites and applications in the cloud, providing a runtime-container that gives your applications facilities for settings storage, registering and managing user accounts, sending emails, authenticating via Facebook, Twitter and more. This tier provides instant preview of your web assets, letting your business users flip between different editions of your content while taking advantage of URL-driven thumbnail and preview generation and URL-driven virtualized asset retrieval.

The Cloud CMS application server is built open-source Node.js, letting your developers extend the REST API as needed. Deploy to Cloud CMS or alternatively to AWS Elastic Beanstalk, Heroku, Engine Yard or other Node.js cloud-hosted runtimes

Cloud CMS API Tier
(AWS / Java Cluster):

The Cloud CMS API tier provides the data engine for your web sites, applications and business user workflows. It is a scalable and feature-rich content API with over 1,200 methods to provision capabilities for full-text search, structured query, content management, analytics, extractions, transformations and much more. Content is stored as JSON (along with zero or more binary attachments) and organized into a graph dictionary structure with nodes, associations, properties, constraints and validation logic that is customized with server-side JavaScript.

The cluster is built in Java and runs on Amazon AWS to take advantage of elastic scaling to deliver consistent performance. It uses Hazelcast to distribute objects across the cluster, ensuring uptime and throughput as your usage grows daily or over time.

Storage / Back up and Replication Tier

Cloud CMS stores all of your data within Amazon AWS. Real-time data is stored within Elastic Block Storage and off-loaded to your own private S3 buckets for archiving and backup. Backup runs automatically but may be customized on a per-data store basis. Any and all data within Cloud CMS can be exported and transferred between Cloud CMS clusters, letting your sync public and private cloud environments. In addition, stack configurations may be downloaded as ZIP archives or uploaded from command-line loaders for bulk operations.

The Cloud CMS Technology Stack