



Continuous cloud deployment and support for a leading UK-based device lifecycle management company

Enhancing the platform's performance while enabling zero downtime





Challenges

- Needing expert assistance in building a platform to deliver Device-as-a-Service (DaaS)
- Building a seamless pipeline for the automated deployment of applications
- Delivering end-to-end managed services with cluster configuration
- Avoiding downtime during deployments

Solutions

- Moving applications from EC2 instances to an EKS cluster setup (including refactoring and rebuilding)
- Continuous integration and deployment using Jenkins CI/CD pipeline
- Container-based microservices architecture
- Newrelic-based application monitoring
- Regular audits to meet high standards of client satisfaction

About The Customer

Newbury Digital is a UK-based company - specializing in device lifecycle management. They follow a unique approach - focusing on optimizing commercial and operational performance while delivering unparalleled end-user experiences. The client works with telecom companies, OEMs, insurance providers, asset financing specialists, fulfillment, and others.

The Need

Newbury Digital was looking for expert assistance in building a platform to deliver Device-as-a-Service (DaaS) that brings together device sourcing, finance, and logistics - syncing up various stakeholders and technology components. Their primary needs were initializing a pipeline for automated deployment of applications, end-to-end managed services with cluster configuration, and automation-powered AWS for deployment while ensuring zero downtime.





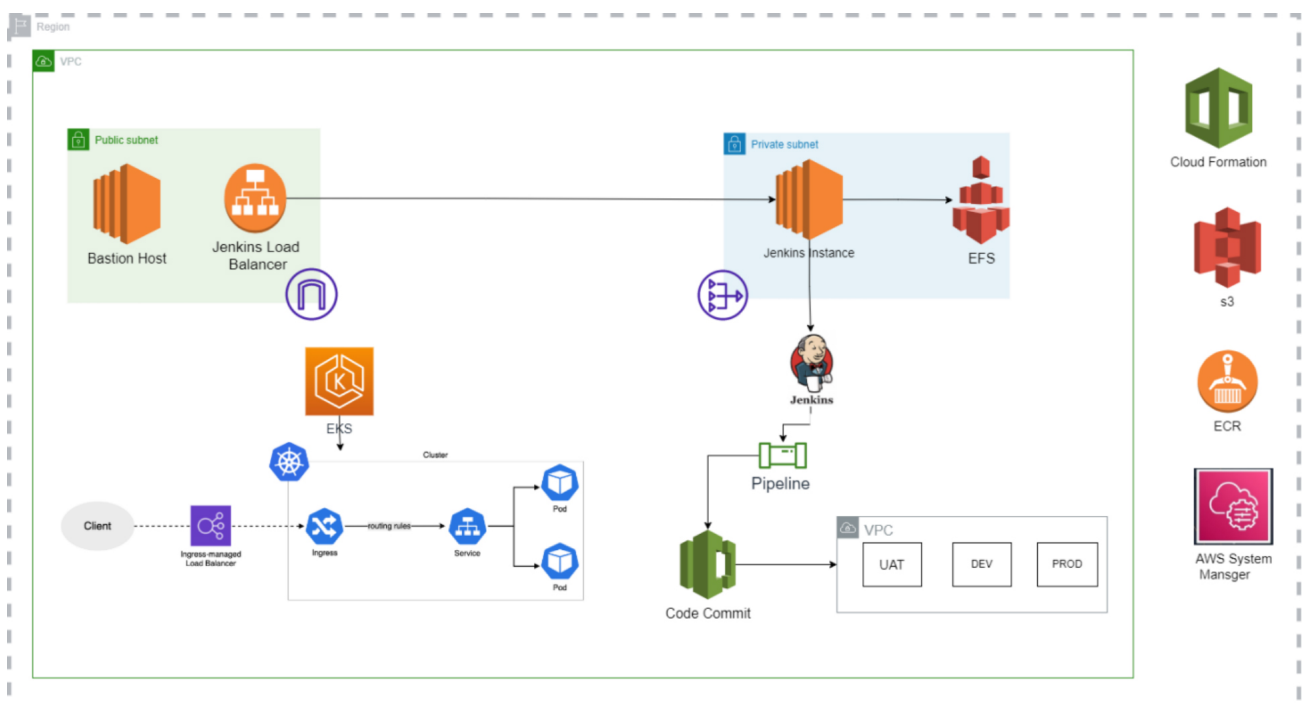
Results

- Huge reduction in deployment costs with continuous integration and deployment
- Highly durable and scalable design
- Increase in productivity – with automation.
- Significant improvements to code coverage
- Reduced time taken to identify and solve issues
- Zero downtime during deployments
- Easy management of high user volumes

Aspire's Solution

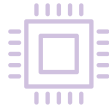
Aspire Systems' team of experts, after a careful analysis of the client's infrastructure and requirements, devised a strategy to move Newbury Digital's applications from EC2 instances to an EKS cluster setup. It ensured that the client could enhance their platform's performance while enabling zero downtime. Some of the solution highlights were setting up continuous integration and deployment using Jenkins CI/CD pipeline, setting up a container-based microservices architecture, refactoring/rebuilding the applications migrated from EC2, implementing Newrelic to monitor the application, and conducting regular audits.

Snapshot of Solution





Technology Highlights



- » **Platform:** Amazon EKS
- » **Container & Orchestration:** Docker & Kubernetes
- » **Continuous Integration/Deployment:** Jenkins
- » **SCM:** AWS codecommit
- » **Artifacts Repository:** Amazon ECR
- » **Language:** Java
- » **Database Release:** Amazon RDS
- » **Monitoring Tool:** NewRelic
- » **Ticketing Tool:** Jira



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