

Legacy Application Modernization using AWS Cloud Native Services

Technology modernization & consolidation of legacy platform using AWS cloud native services with secured microservices based architecture.

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India's largest organization working towards connecting rural India to its urban counterpart. under Ministry of Information Technology of Govt. Of India



About Customer

- The client is the most trusted 'assisted' rural partner network in bringing financial and digital inclusion to the doorsteps of millions of rural customers who are hitherto unreached and fulfill your entrepreneurial dreams and aspirations.



Approach / Deliverables

- With Anblicks' DevOps services, we configured the Bitbucket pipeline for non-production and production environments for CI/CD pipeline.
- We have identified specific SQL queries which cause RDS CPU consumption and shared them with the client.
- Implemented Liferay application clustering (HA) and used AWS ECS for implementing microservices for scalability.
- Best practices and robust process adoption in the cloud.
- Optimized utilization of the paid service for cost-saving.



Business Challenges / Drivers

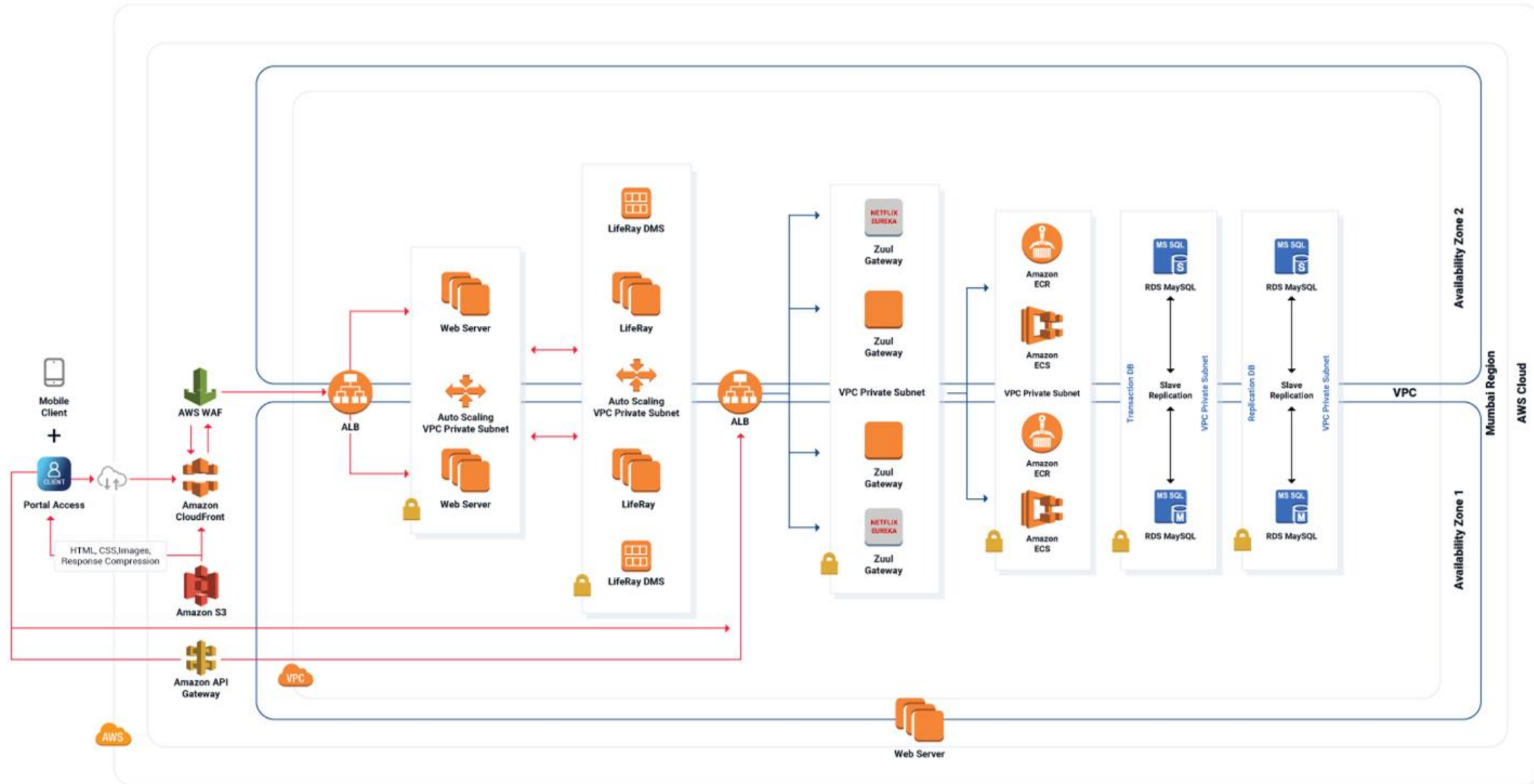
- Limited to build and deployment automation.
- Performance issues with the current setup.
- No high availability and scalability configured for Liferay application and other services on existing non-production and production environments.
- Server hardening, security policy, and cost optimization not in place

















Outcomes / Benefits

- Reduced maintenance cost and increased scalability with the AWS native services and microservices architecture.
- Ease of adding new organizations/tenants on the platform.
- We increased infrastructure security by 45% by segregation of production and non-production environments.
- Automated build and deployment helped reduce the downtime by around 70% during releases and enabled the team to release new features frequently.
- 99.99% uptime with AWS native services used

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Technology	Tools
 Microservice deployment	 Amazon ECS  Amazon ECR
 Build and Deployment	 Jenkins
 Content Delivery Network	
 Version Control	 Bitbucket
 Public Cloud	 aws
 Logging & Monitoring	 Amazon CloudWatch
 Security	