



## APPLICATION MODERNISATION

### Designed to address:

- Inefficient Scaling
- High Costs
- Fragile Code Testing and Release Processes
- Performance Bugs
- Outdated Dependencies

Become a 10x Development Team and Future-Proof Your Application. Application Modernisation is a comprehensive service designed to transform legacy applications into modern, efficient, and scalable solutions for the cloud era. Led by D55's engineering experts, this service builds automated development and testing pipelines, refactors code for automated unit testing, upgrades language and library versions, and evolves applications to leverage cloud-native serverless architecture. It also identifies and removes performance bottlenecks, such as memory leaks and inefficient database usage. Start with a free assessment and modernise your applications with confidence.

## Overview

### 1. Modern Automated Development and Testing Pipelines:

Enhance your development processes with modern, automated pipelines. This improvement facilitates continuous integration and continuous delivery (CI/CD), ensuring rapid, reliable, and high-quality code releases. Automated pipelines streamline workflows, reduce manual effort, and increase overall productivity.

**2. Code Refactoring for Automated Unit Testing:** Refactor your codebase to support automated unit testing. This approach improves code reliability, reduces bugs, and accelerates the development cycle by catching issues early in the process. Automated testing ensures consistent quality and helps maintain a stable application environment.

**3. Language and Library Upgrades:** Keep your applications current by upgrading to the latest language and library versions. This practice not only enhances performance and security but also reduces technical debt. Staying updated ensures compatibility with modern tools and frameworks, providing a solid foundation for future development.

**4. Cloud-Native Serverless Architecture:** Transition your applications to leverage cloud-native serverless architecture. This evolution enables automatic scaling, reduces infrastructure management overhead, and lowers costs by only paying for the compute resources you use. Serverless architecture enhances application resilience and ensures optimal performance.

**5. Performance Optimisation:** Identify and eliminate performance bottlenecks, such as memory leaks and inefficient database usage. By optimising these areas, your applications will run more efficiently, providing a better user experience and reducing operational costs. Performance tuning ensures your applications can handle increased loads and deliver faster response times.



### Enhanced Productivity

Automated pipelines and modern development practices significantly enhance your team's productivity, allowing faster and more reliable code releases.



### Future-Proof Applications

Upgrading to the latest language and library versions and transitioning to serverless architecture ensures your applications are future-proof and compatible with modern cloud environments.



### Cost Efficiency

Optimising performance and leveraging serverless architecture reduces operational costs, making your applications more cost-effective to run and maintain.



### Expert Guidance

Led by D55's engineering experts, you benefit from seasoned professionals guiding you through each step of the modernisation process, ensuring a successful transition.



### Improved Security

By removing outdated dependencies and addressing performance bugs, your applications become more secure and resilient against modern threats.

**Book your free  
consultation now**

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