



ITNextGen Limited
Digital Technology Specialists

G-Cloud 15 Service Definition Document

Microservices Development & Architecture service

ITNextGen Limited

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Service Overview

ITNextGen's Microservices Development & Architecture service provides specialist software architects and engineers who design and implement microservices-based solutions for public sector organisations. We deliver loosely-coupled, independently deployable services that enable agility, scalability, and resilience across complex government applications.

Service Description

Our consultants design microservices architectures using domain-driven design principles, API gateways, service meshes, and event-driven patterns. We implement containerised services with Docker and Kubernetes, establish inter-service communication protocols, and integrate observability and monitoring. Delivery follows Agile methodologies aligned with GDS Service Standards and cloud-native best practices.

Service Benefits

- Improved scalability through independent service deployment and scaling
- Enhanced resilience with fault isolation and circuit breaker patterns
- Faster feature delivery via autonomous team ownership structures
- Technology flexibility allowing optimal tools for each service domain
- Simplified maintenance through smaller, focused codebases per service
- Better resource utilisation with granular scaling and optimisation
- Reduced deployment risk using incremental rollout and rollback

Service Features

- UK-based architects with public sector microservices delivery experience
- Domain-driven design expertise for optimal service boundary definition
- API gateway and service mesh implementation across platforms
- Event-driven architecture using messaging and streaming technologies
- Container orchestration with Kubernetes, Docker Swarm, and serverless
- Distributed tracing and observability using modern monitoring tools
- SC/DV eligible consultants for sensitive government architecture work

Service Scope

The service covers end-to-end microservices implementation including architecture design, service decomposition, API contract definition, inter-service communication setup, data management strategies, deployment automation, and operational monitoring. We specialise in breaking monoliths into microservices, establishing service boundaries, implementing resilience patterns, and creating comprehensive service catalogues.

Deliverables

Typical deliverables include architecture blueprints, service decomposition models, API specifications (OpenAPI/AsyncAPI), containerised service implementations, service mesh



configurations, CI/CD pipelines per service, distributed tracing setup, architecture decision records, migration roadmaps, and operational runbooks. All deliverables follow government architectural standards.

Onboarding and Offboarding

At service initiation, ITNextGen agrees scope, roles, SFIA levels, delivery approach, and reporting cadence with the buyer. Consultants are onboarded in line with buyer security and access processes. On completion, structured handover and knowledge transfer are provided, and access to buyer systems is removed in accordance with agreed offboarding procedures.

Security and Compliance

The service operates in alignment with ISO/IEC 27001 information security principles and UK government cloud security guidance. Consultants follow role-based access controls, least-privilege principles, secure change management, and incident reporting processes. Where required, consultants may be SC/DV eligible and comply with buyer-specific security requirements.

Service Constraints

Delivery is UK-based and remote-first; on-site engagement is available by agreement. Buyer access to relevant systems, environments, and data is required. Use of specific tools or platforms may require buyer-provided licences. Performance depends on timely buyer feedback, approvals, and access to subject matter experts.

Exit Management

At the end of the engagement, ITNextGen provides agreed deliverables, documentation, and knowledge transfer. All access to buyer systems is removed in line with buyer offboarding policies and contractual requirements.