

IBM Consulting



G-Cloud 15

IBM – Accelerated Application Development
for Cloud-Native Applications on AWS

Service Definition Document

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IBM Accelerated Application Development for Cloud-Native Applications on AWS

Service Overview

Features

- Design, build, test, implementation of cloud-native applications on AWS landing-zones.
- Design, build, test, optimise and deployment of integration architectures.
- Leveraging microservices with serverless and hybrid/native container-based infrastructure.
- Rapid ideation & definition of MVP using Design Thinking approaches.
- IBM Garage Method for Cloud based on Agile DevSecOps principles.
- Experience based reference architectures & patterns using AWS Well Architected Framework.
- Large scale, cloud-native build factories, including agile at scale, SAFe.
- DevOps open source pipelines for Continuous Integration, Continuous Deployment (CI/CD).
- Enterprise implementation of DevSecOps practices & governance.
- Service Integration and Management services (SIAM), IT Service management (ITSM).

Benefits

- Create highly scalable, reliable and secure Cloud-native services and applications.
- Quicker delivery – accelerated application transformation plus cloud engineering.
- Reduced project and on-going infrastructure and operations costs.
- Fast starter-UK Government specific expertise creating DevSecOps pipelines.

- Improved application availability and operability.
- Enhanced solutions through depth of expertise surrounding large SME supply-chain.
- IBM Garage Method for Cloud accelerates hybrid cloud build, deployment.
- Improved Cloud Economics, flexible and scalable applications delivered on cloud.
- Flexibility, Productivity and Agility of containers and container orchestration.
- Leveraging the best of ITIL, Agile, LEAN and DevOps disciplines.
- Delivery includes IBM and third party GenAI capabilities such as IBM Watsonx, Amazon Bedrock, a range of assistants and developer tools including IBM Sidekick/Consulting Assistant, ChatGPT, Amazon Q and a range of LLMs.

Key Differentiators

- Red Hat Openshift - Enterprise-grade, container-based platform with no vendor lock-in.
- IBM Garage Method for Cloud accelerates hybrid cloud deployment.
- Enhanced solutions through depth of expertise surrounding large SME supply-chain.
- Accelerated application development/delivery effort with containers and container orchestration.
- IBM Watsonx included three core components and a set of AI assistants to help sale and accelerate the impact of AI with trusted data across your business.

IBM Accelerated Application Development for Cloud-Native Applications on AWS

Addressing Business Needs

We work in partnership with you to address your business needs, leveraging our deep industry and technical expertise, tools, and approach to deliver Digital ready solutions for a range of business needs.

IBM's Accelerated Application Development for Cloud-Native applications on AWS accelerates the creation of a future-ready business, optimising cost and reducing technical debt.

IBM provides the skills, methods and tooling to modernise legacy and mainframe applications, aligns IT with business requirements, reduces operating costs to free up capital for innovation and enhances the overall application security posture

How do we accelerate the development of cloud-native on AWS?

Our clients often struggle with a lack of deep applications and cloud services knowledge, capabilities and tools which impacts their ability to successfully create and modernise applications.

IBM can help you to accelerate your application development from legacy to cloud-native with a range of IBM's AI and market leading application modernisation services such as microservices, IoT, cognitive, social media integration and blockchain.

Cloud security-enablement based on industry- leading practices, regulations, and compliances.

Speed of modernisation is not keeping up with business objectives.

Our clients face challenges with scalability as the complexity of their application landscape prevents them from integrating old and new.

IBM provides needed skills and demonstrates new ways of working by co-creating, co-executing and co-operating with client teams. Our modernisation approach can efficiently transform applications to cloud-native applications and data to enable customer-centric innovation and deliver exceptional client experiences.

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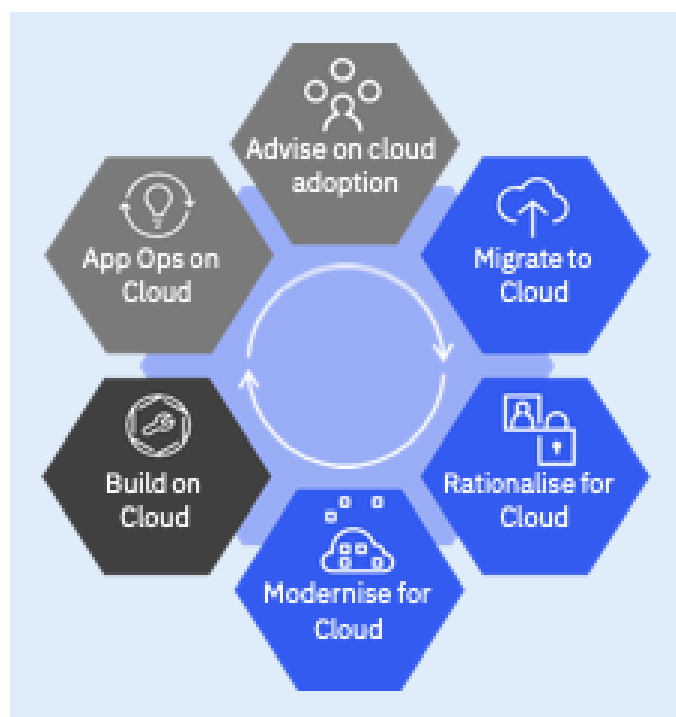
Service Definition

We provide a full cloud-native accelerated application development service that drives value from your journey to the cloud.

Cloud-native application development on AWS

Cloud-native application development on AWS integrating AI, IoT, Data and Insights components and services.

Developing cloud-native applications on AWS involves:



- Rapid ideation & definition of an MVP using Design Thinking, co-creating and evolving to distributed agile application development at scale.
- Use of experience-based reference architectures and design patterns covering multiple cloud scenarios
- Integration of enterprise subsystems and best of breed external services to generate higher quality user experiences and outcomes
- Enterprise implementation of DevSecOps practices and governance with built-in instrumentation for manage
- End to end testing including functional, security, performance, and operations.

An efficient Factory approach is used to accelerate the application development using the IBM Garage Method for Cloud and the associated acceleration automation toolsets.



IBM Accelerated Application Development for Cloud-Native Applications on AWS

IBM Approach

We bring the benefit of having worked with the world's largest organisations, transforming complex, critical services. Our approach is based on robust methods, processes and personalised engagement.

We focus on your business needs and developing trusted long-term relationships, underpinned by industry-leading experience and capabilities. We want you to get the best out of every engagement and to deliver outcomes that matter for your organisation.

Our enhanced experience of accelerated cloud-native application development on AWS combined with our deep technical expertise enables us to meet all your cloud transformation needs now and in the future.

IBM Garage Method for Cloud enables the development of digital, cloud-native application on open technology stack using one or more cloud platforms for a rapid time to market, business aligned co-creation, cost efficient realisation and creation of ready to scale apps.



IBM Garage Method for Cloud

More information on the IBM Garage Method for Cloud is available at ibm.com/garage



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IBM Approach

Why IBM?

The IBM – Amazon relationship is differentiated by delivering on cloud first strategies at scale with Government Agencies across the globe.

IBM's breadth & depth portfolio of proven solutions cater to hybrid cloud requirements with end to end management of public cloud services and help organizations to choose services that are designed specially for cloud with native tooling for zero touch operations, cognitive delivery through analytics and automation, and digital experience.

IBM is an AWS Strategic Global Systems Integrator Premier Consulting Partner.

IBM's Consulting Competencies include:

- Data & Analytics
- DevOps
- Energy
- Financial Services
- Government
- Industrial Software
- Level 1 MSSP
- Migration
- Retail
- SAP
- Security
- Security ISV
- Travel and Hospitality.

IBM has several designations including:

- Managed Service Provider
- AWS Public Sector Partner
- Authorized Commercial and Government Reseller.

IBM has AWS service delivery designations in:

- AWS CloudFormation
- AWS Database Migration
- AWS IoT
- AWS Lambda
- AWS Well Architected Framework
- Amazon API Gateway
- Amazon CloudFront



- Amazon DynamoDB Amazon EC2 Systems Manager
- Amazon Kinesis
- Amazon EC2 for Windows Server
- Amazon Redshift.

Each of these designations highlights a demonstrated technical proficiency and proven customer success in specialized solution areas. Attaining AWS Competencies and other designations allows APN Partners to differentiate themselves to customers by showcasing expertise in a specific solution area.

Further, **IBM has 10,000+ AWS Certified employees** who are employees with validated AWS-related technical skills and expertise.

Finally, as an APN Partner, IBM is eligible for various funding and other assets dedicated to helping IBM deliver solutions and offerings that accelerate cloud adoption for Public Sector customers.

The principles of how we think and act in our delivery to clients include:

- Building long-term client relationships based on innovation, trust and service excellence
- Using Design Thinking and agile approaches to help frame and execute our client's change programs
- Infusing cognition and emerging technologies into our clients' enterprises and core processes
- Exploiting hybrid multi-cloud-based solutions to underpin evolving client processes
- Developing and deploying world-class talent
- Using consistent, modern methods and tools – constantly reviewing and refining to accelerate the value we deliver
- The ability to thrive and succeed in engagements driven by globally dispersed, multi-disciplined teams using our suite of collaboration tools is at our core.

IBM Accelerated Application Development for Cloud-Native Applications on AWS

Innovation

Artificial Intelligence – Generative, Agentic and Assets

IBM brings a comprehensive and trusted approach to AI that helps clients accelerate innovation while maintaining security, governance, and operational efficiency.

Generative AI

IBM enables clients to apply generative AI safely and at scale using capabilities such as watsonx.ai and watsonx.data. These solutions help organisations create new content, automate complex workflows and enhance decision-making.

Agentic AI

IBM supports the development of agentic AI systems that can plan, reason, and autonomously execute tasks across business processes. These agents can connect to enterprise systems, monitor changing conditions, and take actions that reduce manual effort.

IBM Assets

IBM offers a rich set of pre-built assets, including industry models, domain-trained foundation models, automation components, and deployment frameworks. These assets accelerate implementation, reduce development risk, and allow clients to realise value quickly.

Garage Method for Cloud

The IBM Garage Method for Cloud™ is a collection of practices and workflows that have been curated to help organisations rapidly design, build, deploy, and scale innovative solutions.

The Method uses Enterprise Design Thinking, Lean Startup, and agile DevOps concepts to enable continuous design, delivery, and validation of new functionality.

We co-create, co-execute, and co-operate with you to embed a high-performance culture, innovate by design with speed, and scale from MVP to industrial strength to deliver:

- Up to 75% reduction in design time
- Up to 33% improvement in time to deploy MVPs
- Up to 2x faster delivery of new applications to market

Garage Method for Cloud Toolkit

The IBM Garage Method for Cloud toolkit is a suite of integrated tools and assets with a scalable, flexible architecture supported by an analytics engine and automation that helps our clients accelerate their AWS transformation journey.

This toolkit supports our client's cloud transformation journey by the acceleration of cloud adoption with automation for greater efficiency and deeper analytical insights for improved decision-making ability, delivering benefits such as:

- Up to 40% reduction in time and effort to process new sources of information.
- Up to 25% reduction in errors from manual activities related to migration.
- Up to 25% reduction in time and effort required for migration activities.

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Value from Accelerated Cloud-Native Application Development

IBM Services can help to accelerate innovation, achieve faster time-to-market and drive revenue growth.

Deploy faster - Provide a superior customer experience, deployable on any cloud improving your time to market.

Reduce defects and speed time to market.

Automate - IBM Automation with Watson can reduce app management costs.

Change culture and embed new capabilities - Modernise your workforce and introduce new ways of working through the IBM Garage Method for Cloud, eliminating application defects.

Enhanced solutions through **depth of expertise** surrounding large SME supply-chain

Innovate while balancing speed-to delivery, cost and risk - Optimise the application development process utilising IBM's unique, tools reducing your total cost to develop new applications.

Fast starter - UK Government specific expertise creating DevOps pipelines.



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About IBM - Supporting Government

We help government organisations in the UK and worldwide deliver and transform essential public services – our teams are passionate and proud about helping you to make a real difference to people's lives.

The problems we solve for clients are complex and cannot be satisfied with technology alone. They require a partner that can also offer deep industry expertise and a relationship of trust.

IBM combines the portfolio, people and sense of purpose necessary to meet today's enterprise demands. Every day, we support and manage complex delivery for government clients where the impact of delivery has wide-reaching impact on citizens and national services.

We bring access to the industry experience, insight and technology capability to deliver and operate secure, scalable, optimised and available services for government.

Government Services Supported by IBM

Defence and Intelligence
Public Safety and Policing
Healthcare
Life Sciences
Tax and Revenue Management
National Infrastructure
Social Care
Education
Work and Pensions

We support you by bringing:

- **Industry expertise** – Professionals who understand and are passionate about delivering quality public services and can bring industry insights and apply innovation to your business processes
- **Trust and security capabilities** – Protecting valuable data and insights and deploying new innovations responsibly. Strong AI Governance, with use of techniques such as Retrieval-Augmented Generation (RAG) to improve accuracy and reduce hallucinations from AI outputs.

- **Innovative technology** – Expertise in areas such as Generative and Agentic AI, blockchain, 5G, Automation, IoT, cybersecurity and quantum, delivered in a Hybrid Cloud environment
- **Experienced Services professionals** to support strategy, innovation and deliver transformation and change to processes, applications, and cloud infrastructure
- **Global alliances** – valuable partnerships with the world's leading vendors.



IBM Accelerated Application Development for Cloud-Native Applications on AWS

About IBM – This is IBM in the UK

We have worked together with organisations in the UK for over 100 years, with a rich history of joint innovation and achievements, built on trusted relationships.

Case Studies

AI Governance Industry Leader

IBM named a Leader in The Forrester Wave™: AI Governance Solutions, Q3 2025 with watsonx.governance:

Forrester recognized IBM for our ability to manage the complexity of AI governance across many roles and responsibilities. Our strategy reflects years of collaboration with customers in complex and highly regulated industries — and that experience is built into watsonx.governance.

Sport

The Official AI, Cloud and Digital Transformation Partner for The All England Lawn Tennis Club:

IBM is the long-standing technology partner for The All England Lawn Tennis Club. From the launch of the Wimbledon website in 1995 and the mobile application in 2009, to the first integration of enhanced AI-powered solutions in 2017, IBM and the All England Club have collaborated for 36 years to deepen global fan engagement across Wimbledon's world-class digital platforms.

Education

IBM and Pearson collaborate to build new AI-powered learning tools for organisations and individuals worldwide:

IBM and Pearson, the world's lifelong learning company, have a global partnership to build new personalised learning products powered by AI for businesses, public organisations and educational institutions.

Quantum

IBMQ, the world's most advanced quantum computing initiative for commercial use, is being used by CERN.

Environment

IBM's focus on sustainability began in 1971 with our first environmental policy.

For more information,
visit the [IBM UK website](#)

Services & Solutions

IBM in the UK provides various services and solutions, including:

- **Cloud Computing:** IBM offers cloud computing services, including infrastructure, platform, and software as a service, to help businesses in the UK to innovate and grow.
- **Artificial Intelligence:** IBM provides artificial intelligence (AI) solutions, including Watson, to help businesses in the UK to make better decisions and improve their operations.
- **Cybersecurity:** IBM offers cybersecurity solutions to help businesses in the UK to protect themselves from cyber threats and ensure the security of their data.
- **Internet of Things (IoT):** IBM provides IoT solutions to help businesses in the UK to connect and manage their devices, and to analyze and act on the data generated by those devices.
- **Blockchain:** IBM offers blockchain solutions to help businesses in the UK to create secure, transparent, and efficient supply chains.
- **Consulting:** IBM provides consulting services to help businesses in the UK to improve their operations, reduce costs, and increase efficiency.
- **Research and Development:** IBM has a strong research and development presence in the UK, with a focus on emerging technologies such as AI, blockchain, and quantum computing.

For more information,
visit the [IBM UK website](#)

