

Mlops Implementation

G-Cloud

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MLOps Implementation

Machine Learning Operations (MLOps) services focused on deploying, monitoring, and managing ML models in production. CI/CD, model registries, monitoring, and controlled retraining workflows.

1 Service Overview

Appvia delivers MLOps foundations that enable reliable, production-ready machine learning. We implement CI/CD pipelines, model registries, monitoring, and controlled retraining workflows that your team can operate and evolve.

What you get:

- **MLOps maturity assessment** — Current state and roadmap
- **CI/CD pipelines** — Automated model deployment
- **Model registry** — Versioning and promotion workflows
- **Drift detection** — Data and concept drift monitoring
- **Retraining workflows** — Controlled retraining based on thresholds
- **Feature store** — Feature reuse and consistency
- **Monitoring dashboards** — Alerting and observability
- **Experiment tracking** — Reproducibility infrastructure
- **Governance** — Aligned with responsible AI requirements

Multi-cloud support across AWS, Azure, and Google Cloud.

2 Our Approach

We follow a structured approach that delivers sustainable MLOps foundations.

Implementation phases:

Phase	Activities
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Assess	MLOps maturity, current tooling, requirements
Design	MLOps architecture, pipeline patterns, monitoring strategy
Build	CI/CD, registry, monitoring, drift detection
Enable	Knowledge transfer, documentation, handover

MLOps capabilities: - Model versioning with promotion workflows - Automated testing and validation gates - Production monitoring with drift detection - Controlled retraining based on performance thresholds - Feature store for consistency and reuse

We focus on foundations your team can operate and extend.

3 Getting Started

MLOps implementations typically take 8-12 weeks:

Phase 1: Assessment We assess current MLOps maturity, review existing tooling, and define requirements. We agree roadmap and priorities.

Phase 2: Build Foundation CI/CD pipeline implementation, model registry setup, and monitoring infrastructure.

Phase 3: Extend Drift detection, retraining workflows, feature store (if required), and governance integration.

Phase 4: Enable Documentation, knowledge transfer, and handover to your ML team.

Prerequisites: - Existing ML models ready for production deployment - Cloud platform access for MLOps infrastructure - ML team availability for knowledge transfer - Defined governance and compliance requirements

4 Your Responsibilities

To ensure successful service delivery, you will need to:

- Provide timely access to required resources, stakeholders, and information
- Make appropriate subject matter experts available for design and integration discussions

- Ensure business users are available for acceptance testing as agreed
- Procure necessary software licenses and subscriptions
- Empower your project team to make decisions in a timely manner
- Review and approve deliverables based on agreed acceptance criteria
- Provide ML models ready for production deployment
- Ensure cloud platform access for MLOps infrastructure
- Define governance and compliance requirements
- Make ML team available for knowledge transfer
- Participate in MLOps design and architecture decisions

5 Security & Compliance

This service supports workloads classified up to **Official-Sensitive** where appropriate controls are in place.

Our security credentials:

- **ISO 27001:2013** and **ISO 9001:2015** certified
- **Cyber Essentials Plus** certified
- **75%+ of our team hold SC clearance**
- All access to customer environments is logged and auditable
- Data remains within UK regions unless explicitly agreed

We operate in alignment with GDS, NCSC, and CDDO security principles.

6 Support & Exit

Ongoing Support

- Dedicated Service Delivery Manager as your primary contact
- Regular service reviews with clear reporting on performance and incidents
- Defined change management aligned with ITIL best practices

Knowledge Transfer

We embed knowledge sharing throughout our engagement: - Documented runbooks and operational procedures - Regular knowledge sharing sessions with your team - Post-incident reviews that share learnings

Exit Process

When the engagement ends, we ensure an orderly transition: - Complete documentation of all configurations and procedures - Knowledge transfer sessions as required - 90-day standard notice period - No disruption to your services during handover

7 Why Appvia

We're a UK-based SME with deep expertise in cloud platforms and a strong track record delivering for UK government.

Cloud Partnerships

- AWS Advanced Tier Services Partner & Public Sector Partner
- Microsoft Azure Solutions Partner
- Google Cloud Partner

Open Source Credentials

- Creators of Terranetes (CNCF project for Terraform on Kubernetes)
- Developers of Wayfinder, a self-service cloud platform

Public Sector Experience

We understand the unique requirements of government and public sector organisations, from security clearance to GDS service standards.

"Appvia have helped us realise our cloud-first strategy with excellent product solutions. The security, governance and peace of mind brought in by the cloud landing zone has dramatically accelerated our journey to cloud-native adoption."

— **Peter Macchiocci**, Bank of England, Head of Platform Engineering

8 Contact Us

To discuss your requirements or request a detailed proposal, contact our Public Sector Team.

Phone: 020 3917 2888

Email: sales@appvia.io

Website: www.appvia.io

When you get in touch, please include: 1. The name of this service 2. Your organisation name 3. Your contact details 4. A brief description of your requirements

We'll arrange a discovery call to understand your needs and provide a tailored response.

Appvia helps organisations build, secure, and innovate across cloud, data platforms, and AI by blending practical engineering expertise with real-world experience.



About Appvia

Appvia helps organisations build, secure, and innovate across cloud, data platforms, and AI by blending practical engineering expertise with real-world experience. Drawing on our background in creating open source CNCF projects like Terranetes and our self-service developer platform, Wayfinder, we bring that industry know-how and expertise into your organisation to help unlock the true value of the Cloud. As an AWS Advanced Tier Partner and a Microsoft Solutions Partner, we specialise in delivering secure, scalable cloud-native platforms and services, including containerisation, FinOps, modernisation, and AI integration.

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