

kainos<sup>®</sup>

Cloud Services  
Secure Cloud Platform





# Secure Cloud Platform

Leading cloud transition in public sector-moving key line of business applications to the cloud or wholesale shift from on-premise to cloud.

Kainos certified Azure/Amazon Web Services (AWS) architects create secure landing zone for your infrastructure and applications or validate existing cloud platform. Aligned to NCSC and cloud provider best practices.

## Features

1. Secure landing zone built by certified Azure/AWS architects.
2. Secure cloud adoption through the application of proven architectural patterns.
3. Assurance that the platform will meet security and compliance needs.
4. Assessment of IaaS, PaaS, AKS, EKS, Serverless or hybrid-cloud options.
5. Proven automated deployment and migration methods to Azure /AWS.
6. Rapid deployment using Kainos' automated 'Infrastructure as Code' accelerators.
7. Operational needs addressed as part of build.
8. Enablement of your operational teams through standardised processes.
9. Tooling: Ansible, Puppet, Terraform, ARM, Kubernetes, Docker, Jenkins, Azure DevOps.
10. NCSC aligned approach for secure zone design and build.

## Benefits

1. Proven cloud platform ready to host production workloads.
2. Secure cloud platform designed to meet NCSC recommendations.
3. Reusable automation to further extend the platform in a safe and robust way.
4. Realise hosting and operational management cost savings.
5. Access to hyperscale computing and flexibility.
6. Leverage latest Azure/AWS industry leading functionality and security features.
7. De-risking the cloud deployment of your current and future services.
8. Access to ISO27001 managed services trusted by UK Government.
9. Operational and security policies and tooling baked into the platform.
10. Comprehensive full-stack observability – auditing, protective monitoring, proactive alerting, SIEM integration.



# Secure Cloud Platform

Kainos has extensive experience in leading cloud transition in the public sector. For some, this has focused on moving key line of business applications to the cloud; for others it was a wholesale shift from on-premise to the cloud.

Our customers consider cloud adoption for several reasons, typically:

- To safely exit an expensive legacy hosting contract.
- Modernising to mitigate risk e.g. legacy hardware and software.
- Their current infrastructure is not able to meet business needs through speed, cost, availability, performance constraints.
- Existing operational teams find difficulty delivering the digital demands of the business.
- Commercial need to realise cost savings from cloud.
- Need to adopt a higher security position.

Kainos has one of the largest teams of cloud engineers serving the UK public sector, helping customers to migrate applications running on old software and hardware to be made safe, modern and cost effective on a cloud platform.

We don't just lift and shift on-premise architectural patterns to the cloud without due consideration; we optimise using cloud best

practices. We start with building an understanding of the service to be migrated, and the business and user need, using industry leading tooling. If a cloud provider hasn't already been selected, we will work closely with you to identify the cloud options and help you to make an informed decision.

## Service Scope

We have proven experience of architecting over 100 cloud-based platforms. We use this experience to deliver secure, robust cloud platforms in line with NCSC guidelines. We have in-depth experience in delivering highly sensitive workloads including those hosting official-sensitive data on public cloud.

As part of delivering a secure cloud platform, we identify the security needs including the risk and threat actors to ensure we build not only an operationally secure platform but one that will proactively deal with potential threats.

We have a dedicated Cyber Security team within Kainos who work as part of our delivery teams to guide and independently assess the platforms being delivered. The Cyber Security team has worked closely with the NCSC to deliver some of the highest profile citizen-facing services and platforms in government.



# Secure Cloud Platform

As part of securing the platform we will design and build the secure landing zone which covers all aspects required to secure cloud adoption, including but not limited to:

- Implementation of firewalls to protect the Ingress/Egress of traffic
- Implementation of DDOS services
- Implementation of Web Application Firewalls
- Implementation role-based access controls
- Implementation of application and network security groups
- Implementation of security policies
- Implementation of IDS/IPS
- Implementation or integration into an existing SIEM solution
- Implementation of encryption and associated policies
- Implementation of secrets and key management.

Kainos services are accredited to ISO 20000 and ISO 27001 and we are an established cloud support provider for UK Government.

## Experience

Kainos has significant experience in delivering secure cloud platforms including OFFICIAL-SENSITIVE workloads. We assess all aspects of security posture to deliver a higher security position by cloud adoption. We assess, design and implement cloud platforms in line with NCSC guidance. We are experienced in working flexibly and collaboratively with our customers, staff and other suppliers to ensure success.

Kainos invests heavily in developing its cloud capabilities which have been proven across many government engagements. We are independent, using the best tools and platforms to achieve the right results. We endeavour to align closely with your organisation, seeking to work as a trusted partner and not just a supplier.