



Cloud Architecture

G-Cloud 15

January 2026

Cloud Architecture

About this service

Our Cloud Architecting service is designed to ensure that you make good investment decisions when transitioning to cloud-based services. We are not tied to an infrastructure provider which means we maintain independence on your behalf ensuring that your decisions are right for you and avoid vendor lock-in.

We provide a competitively priced service that can investigate your business needs while providing the knowledge and insight to match those needs to a portfolio of optimised services. Furthermore, we will provide unbiased recommendations about legacy systems, balancing past capital expenditure against future operating costs. Our holistic offering considers Cloud Architecture in the round covering strategy, business needs, governance, security as well as the fast-evolving services offered by the large cloud providers.

When to use this service

When looking towards a cloud architecture, it's critical that you understand your 'as is' situation. This includes the CAPEX and OPEX costs associated with your current infrastructure, the location and distribution of your information, the criticality of your information systems and applications in terms of how they support your business processes and deliver value.

Understanding your data is key, most of it will be in extant databases or file storage, some may be tied to legacy applications. You need to decide if it's viable to move certain data to the cloud, and if so, when. When migrating data to cloud there are a multitude of options to choose from, all of which will have implications on security, cost, accessibility and latency. Furthermore, you may be looking to better exploit your data through artificial intelligence and machine learning all of which require significant data collection and storage strategies.

Having established the baseline, you then must decide upon what needs to improve. This means looking at features, functions, process, performance, security, governance, cost etc. From this you will determine your requirements. Early on you will need to make some fundamental decisions about how you will leverage the cloud for business benefit. Will you use Public, Private, Virtual Private, Multi-Cloud or a Hybrid cloud solution?

You need to decide what you are going to do to meet your requirements. This will require an informed and objective look at the offerings from the various providers. It is highly unlikely that you will be able to satisfy your requirements at once, you therefore must define value then prioritise those requirements that offer greatest return on investment and carefully plan your migration.

What we deliver

Our Cloud Architecture Service covers all stages of the process where we can apply a wide range of integrated capabilities including:

- Infrastructure Maturity Assessments
- Information & Information System Audits
- Threat Modelling & Security Audits
- Cost Modelling
- Security & Risk Assessments
- Business Process Capture
- Requirements Capture
- Solution Definition & Modelling (Cloud-based opportunities and solutions)
- Database Design (SQL, NoSQL, Transactional, Data Warehouse, Graph, etc...)
- Data Science knowhow & Data Cleansing
- Options Analysis & Prioritisation (including business case support)
- Cloud Migration Planning
- Cloud Governance Processes (including monitoring, SLAs, operations management and information & knowledge management)
- Transition Support (including knowledge transfer & integrating new ways of working)

What benefits we provide

BMT provides a scalable service with flexible, skilled resources delivered via a Managed Service mechanism. Our outcome-based delivery to cost, time and quality is managed by a dedicated manager who is assigned to you.

Our team will work with you and your key stakeholders to ensure your needs are met at both a strategic and tactical level. Performance and quality of service delivery is monitored, assessed, measured and assured. By maintaining frequent, regular contact and dialogue with you, we seek feedback and assess your satisfaction with our performance, with the capacity to escalate issues rapidly if required.

Our aim is always to deliver a sustainable solution, and we work with you to ensure we transfer knowledge and skills to your staff, enhancing your inhouse capability and maximising the benefit you gain from your engagement with us.

We typically provide the following benefits:

- Support end to end digital transformation
- Provide a strong focus on strategy & business requirements
- Security cleared personnel supported by in-house security accredited systems
- An open culture that encourages knowledge transfer to ensure ongoing benefit

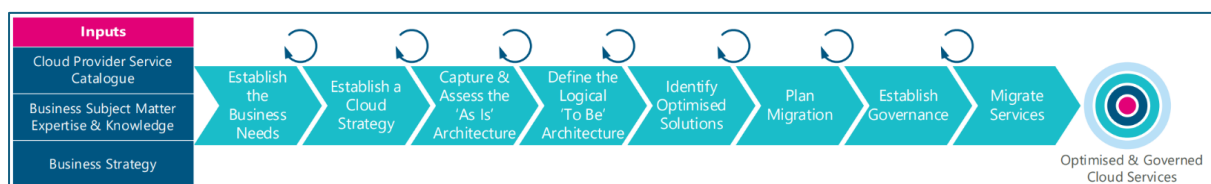
- Vendor neutrality
- An integrated set of tailorable services
- Defensible investment decisions
- Support the organisation with new ways of working
- Increased delivery success through robust project management & controls
- Increase business agility through effective exploitation of cloud services

How we deliver this service

We will leverage and adapt our own BMT cloud architecture framework which will help accelerate the pace of work and reduce cost. Within the framework we use a mixed team of specialists which include Enterprise Architects, Cyber Security Consultants, Cloud Solution Architects, Business Analysts, Data Scientists, Cost Modellers, Service Managers and Project/Programme Managers who will collectively deliver, as and when needed, across the value chain.

In general terms we will work with your people to:

- Review your ICT strategy, making recommendations where needed
- Establish just enough baseline architecture to capture your “as is” situation
- Analyse the “as is” architecture and refine the strategic options and align to your business outcomes
- Identify the business and technical requirements across all lines of development
- Map requirements to costed solution options
- Establish a cloud governance framework
- Plan the migration
- Optionally project manage the transition to cloud
- Embed the new cloud services into the business



Experience

Our experience includes the full end-to-end delivery of the following projects:

- **APHIDS** - BMT have been working under the Home Office Accelerated Capability Environment (ACE) to create a central database of people who hold, or are applying for, passes to grant them airside access in UK airports. APHIDS will

enable the process of more stringent and regular repeated Accreditation Checks (AC) as required by EU and UK legislation.

The screenshot shows the Home Office APHIDS Access Pass Holder Information Distribution System. The user is logged in as oscar.falkner@homeoffice.gov.uk. The profile for OSCAR FALKNER CAUNT is displayed, with a status of 'AIC pass - inactive'. The profile includes personal details, identification information for a bank card, driving licence, and national identity card, and employment details.

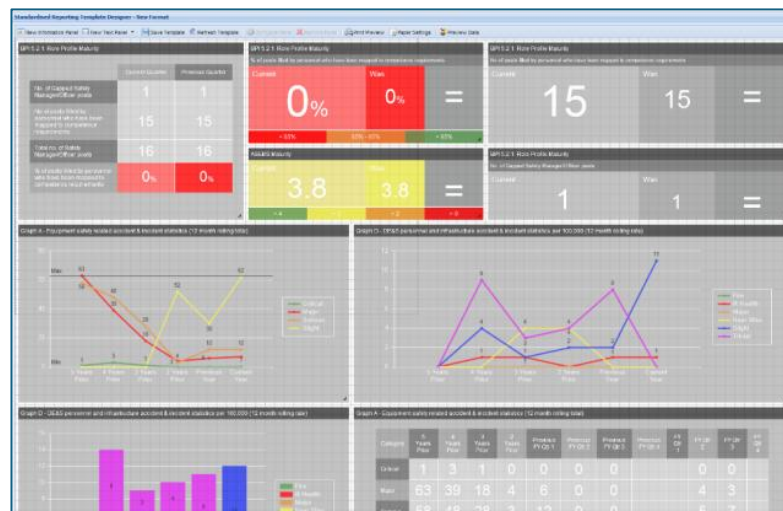
Personal	Contact	Clearance	Pass	Employment
Record reference	CAUNT-1			
APHIDS record reference	MAN-CAUNT-1			
Person reference number	CAUNT-1			
Title	MS			
Forename	OSCAR			
Middle names	FALKNER			
Surname	CAUNT			
Previous surname	CRAVEN			
Other names	LUCILLE			
Date of birth	23/09/2000			
Gender	FEMALE			
Nationality	AUSTRIAN			

Identification - Bank card	
Number	VXTJ191228CLOM
Expiry date	11/03/2028
Issuing country	UNITED KINGDOM

Identification - Driving licence	
Expiry date	01/06/2023

Identification - National identity	
Number	809391460
Expiry date	24/03/2022
Issuing country	UNITED KINGDOM

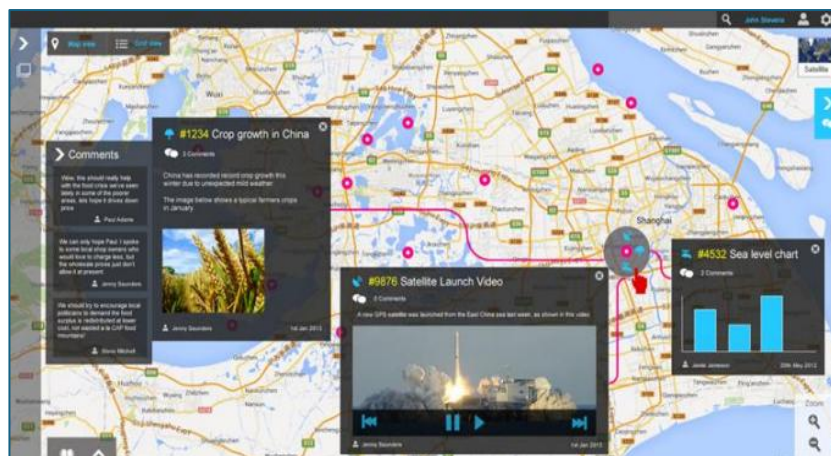
- **ASSERT** - BMT designed, developed and currently host and support a safety and environmental performance reporting tool used and mandated by all UK MOD Defence Equipment & Support (DE&S) and Information Systems & Services (ISS) Operating Centres and Teams. In addition, we provide a number of bespoke application modules for the Defence Safety Authority (DSA)



- **StanMIS** - BMT won competitive tenders to develop, and then further enhance an on-line Through Life Standardization Management Toolset to improve the DE&S approach to standardisation management and the process for identification, selection and production of standards to meet UK MOD capability. In addition to the core system hosted on the MOD RLI, we have also provided a publicly accessible, cloud-hosted version on the Internet – accessed via the Defence Gateway. To support on-boarding of new users to the system we

designed and developed a set of interactive, SCORM-compliant training modules – accessed from both the of the cloud-hosted systems

- **DE&S Management Information Systems (MIS)** - BMT have supported the UK MOD Defence Equipment and Support (DE&S) Chief Information Officer (CIO) Management Information Systems Team (MIST) with enhancing a number of key MOD software tools including the Corporate Management Information System (CMIS) and e-Solutions (a central system used throughout DE&S used for a variety of functions including event management and management of Government Procurement Card transactions). In addition, BMT have worked with CIO to produce an architecture to rationalise and integrate a large number of MOD Management Information Systems
- **Defence Human Capability Science & Technology Centre (DHCSTC)** - BMT have developed a web-based central database and dashboard portal (which incorporates a Google Maps interface) to enable effective aggregation, communication and sharing of information that is captured by Military Stabilisation Support Group (MSSG) staff in the field - in addition to a mobile, tablet-based application for MSSG staff out in the field to capture and retrieve information regarding local projects and organisations



- **Naval Authority System (NAS)** - For over 10 years, BMT have been further developing and hosting a web-based naval safety certification management tool for the UK MOD. In addition, BMT provide the MOD Naval Authorities and Duty Holders with a knowledge management service - of which the NAS helps support
- **Naval Authority Information Management System (NAIMS)** is an web-browser-based platform that transforms how the Royal Navy manages Naval Authority information. By replacing manually maintained Word documents with an auditable and structured system, NAIMS streamlines certification requests and reviews, supports systematic certificate-strategy planning, and enforces rules

management to safeguard fleet safety and operational readiness. Every change is tracked, and users can propose and manage rule updates directly, laying the foundation for future integration of naval regulations into a central database that feeds downstream systems.

Our multi-skilled user experience designer guided the look and feel from end to end: conducting user research, crafting wireframes, building interactive prototypes, and running usability tests to refine each interaction for clarity and accessibility. Drawing on roles defined in the government service manual; content design, graphic design, accessibility, interface and interaction design, and service design.

Our full-stack software developers handled DevOps, front-end, and back-end responsibilities, using version control to manage code, integrating external services, and fine-tuning performance and security. In parallel, our test engineers and test manager devised comprehensive plans covering every feature and scenario with both manual and automated cases, logging defects with precise reproduction steps and executing rigorous regression suites to uphold our quality standards.

Designed for a lifespan exceeding ten years, NAIMS scales effortlessly to accommodate growing user numbers and evolving technologies. It has already undergone successful Alpha and Beta reviews with the Cabinet Office and Government Digital Service, marking a significant milestone in the Royal Navy’s digital transformation.

Ministry of Defence

Naval Authority Information Management System

0

System Admin

Dashboard

Certificates

Rules

Strategy Management

User Management

Admin

Strategy Management > Certification Strategies

New Certification Strategy

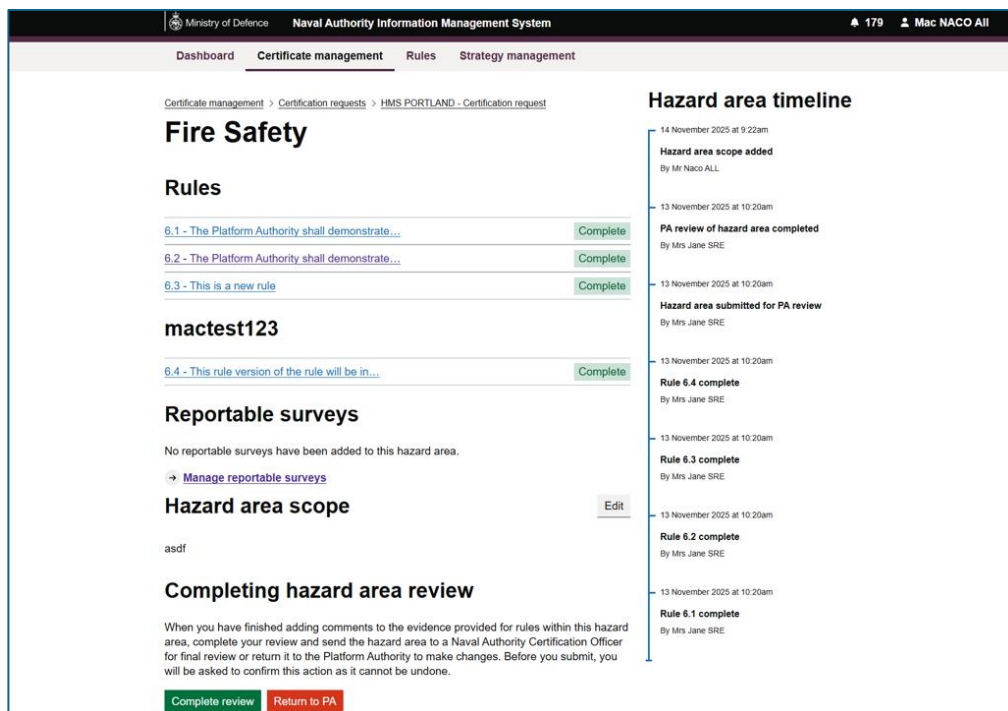
Platform authority †	Class †	Created by †	Created date ▼	Status †	Actions
DES Ships NSS - Capital Ships -Chief Eng	VANGUARD Class	Admiral Mac Admin	16/05/2025	Published	View
DES Ships NSS-RFA-TL	T31	Colour Sergeant update timeline test	15/05/2025	Superseded	View
DES Ships Acq-IFC-ChEng	Icebreaker	Air Commodore Amend PA app	30/09/2023	Published	View
SDA-P	QE Class CVS	Mr Luke Grinnell	06/11/2022	Draft	View
DES Ships NSS-T45	RIVER Batch 2 Class OPV	Air Commodore routing tester	23/05/2021	Part 1 - Reviewed	View
DNA	RIVER Batch 1 Class OPV	Mr Bob Bobson	21/06/2019	Published	View
DES Ships Boats-ChfEng	IX	Mr Elias Bolton	29/03/2019	Part 1 - Lead Reviewed	View
Navy X	T26 City Class Batch 1	Mr Test User PA - Non SRE	10/02/2018	Superseded	View
DNA	HUNT Class	Mr Bob Bobson	30/07/2016	Part 1 - Submitted	View
DES Ships NSS - Capital Ships - Chief Eng	RIVER Batch 1 Class OPV	Mr Mr A yqjpg	16/08/2014	Part 1 - Submitted	View

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2

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Next →



- Joint User Mission Planning (JUMP)** - BMT have developed a system on behalf of the UK MOD to integrate cyber threat analysis and mission planning with traditional land sea and air planning. We combine geographic intelligence integrated with Intelligence, Surveillance & Reconnaissance Systems and seamless linkage of physical terrain to cyber terrain. JUMP allows the cyber analyst to understand cyber assets within the wider context of the mission. <https://www.youtube.com/watch?v=AcjuckPe7TA&feature=youtu.be>



- Maritime Assurance Support Tool (MAST)** is a browser-based application designed to manage ship interior and exterior surface material surveys. Developed in close collaboration with customers, it has been built from the ground up incorporating extensive user experience (UX) processes along with modern design and accessibility practices. Regular user feedback has been





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