

**SOLVE
SOMETHING
IMPORTANT**

Cloud Migration Services

Service Definition Document

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Cloud Migration Services

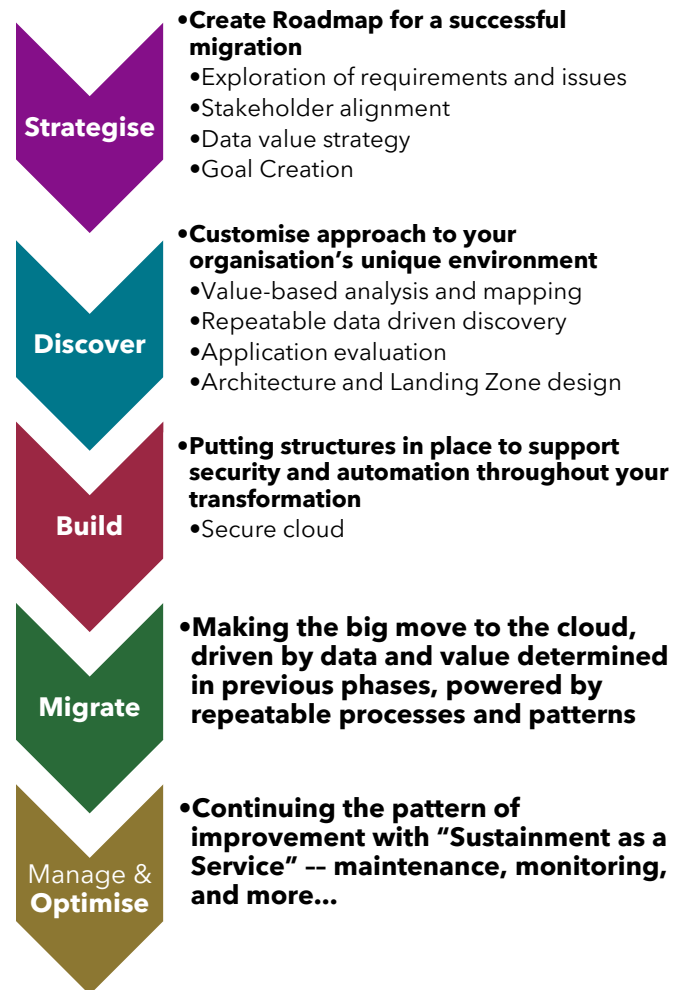
1 WHAT THE SERVICE IS

The right migration strategy unlocks the value of the cloud for your enterprise while managing costs, maintaining service availability and introducing agility. Not all migration strategies can manage that. We have successfully completed more than 1,000 public and private migrations - The Leidos Way.

Our services are scalable, modular and capable of supporting any type of cloud migration or transformation activity, from entire enterprise estates to individual digitalisation of services and information capture and processing. We co-design to suit our clients' needs and we advise and deliver agnostically and independently on the suitable cloud services to deliver agreed benefits and desired "future" state. Our people are onshore and focused on government, defence, national security, critical national infrastructure and intelligence environments.

Our methodology has five agile phases beginning with the initial consultancy engagement leading onto the development of the enterprise architecture, procurement and sourcing advice, process re-engineering, business case creation, platform instantiation and application migration / transition.

The modular nature of our service offering means these phases can be applied together under one programme of work, representing an end-to-end and fully comprehensive enterprise cloud migration / transformation, or delivered as discrete pieces of work / separate work streams to suit the customer's timeframes, objectives, and budget. Throughout our planning, design and delivery phases, we apply our Financial Operations framework to ensure that the solution delivered is cost effective and optimised.



Service components

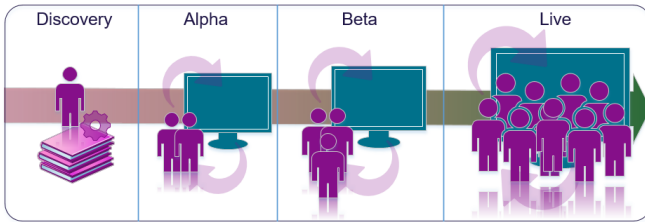


Figure 2 - GDS Compliant Approach

Our approach means we can deliver any of the services as shown in isolation from the other services, or in combination with any of those as required. We deliver these services in a GDS compliant, agile manner where we iterate through each stage refining and refocusing each sprint from discovery, through alpha and multiple beta iterations to ensure that at the end of each stage our direction is aligned to yours. Often, we find that with small to medium size migration programmes, during the early sprints, we can establish very quickly the migration

approach through use of user stories, mock ups, prototypes / alpha and can move on to the following phases where we start the migration process.

Strategise

A successful cloud journey starts with a thorough understanding of an Agency's vision, mission, objectives, strategies, current initiatives, security considerations and aspirations shape the solutions we develop. We identify the experts and key stakeholders within the Agency and work in collaboration and true partnership. We use coaching and mentoring techniques to bring out as much valuable, intimate knowledge as possible.

With a thorough understanding of the agency, Leidos applies our knowledge and experience in Cloud migration and transformation distilled in our proven methodologies (aligned to and build upon industry best practices, such as the AWS Cloud Adoption Framework and the Azure Cloud Adoption Framework) and our knowledge of the pitfalls to avoid creating the optimal solutions to affect successful cloud migrations in optimal timelines. We perform this stage in an agile fashion over a number of sprints, or as a traditional strategy analysis and assessment exercise.

The outputs from this phase include:

- ▶ Cloud strategy - We work with you to co-create the right strategy to support your business and your aspirations;
- ▶ Outline business case - We can help you build a robust and compelling business case for your cloud migration;
- ▶ Programme governance plan - The outline for how the programme of cloud migration will be managed, measured and reported.



Discover

We use our Discovery and Assessment methodology to quantify an agency's "as-is" environment, leveraging process templates and blueprints, automated tools, manual techniques, checklists, interviews and workshops. We also discover the possible future state and the explore options, and opportunities for transformation.

Our approach is agile and this phase is conducted in sprints, typically using the Scrum methodology show in Figure 3 below.



In this phase, we categorise workloads using the six Rs method (rehost, replatform, repurchase, refactor, retain, retire) and consider all hosting options (IaaS, PaaS, SaaS) and the potential use of orchestration, containerisation and serverless approaches. This results in an Assessment Analysis document with our recommended plan and schedule to design and plan the cloud migration. This output can be used to build your business case if required or can be immediately fed into the next phase of your cloud migration programme. Included in this output is:

- ▶ Target Operating Model (TOM);
- ▶ A target architecture;
- ▶ Skills assessment including gap analysis / training plans;
- ▶ Initial migration plan (based on six Rs treatment (see Migrate section below for details) which includes attaining any accreditation required;
- ▶ Security management plan.

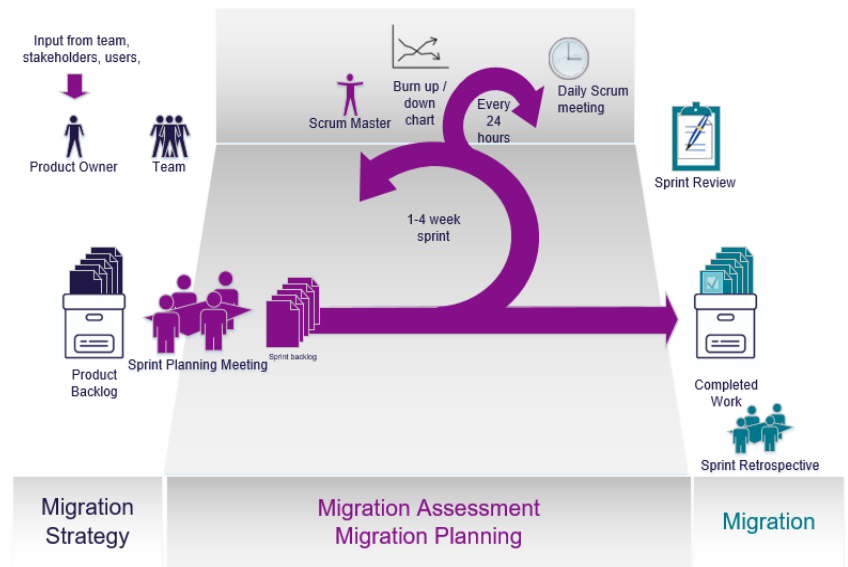


Figure 3 - Scrum Migration Delivery

We often find if the Discover phase is carried out concurrently with the Strategise phase, the overall process of arriving at a target architecture is expedited.

Build

The right cloud architecture to meet the agency's goals, objectives, and constraints is deployed in this phase. As we employ an agile and iterative approach the Cloud Design, Application Migration Plan, and development of the Cloud Implementation Strategy and Plan culminating in a "to-be" cloud architecture continues to be refined across this stage and the environments regularly tuned to the optimal state. The deployed environments may leverage a single Cloud Service Provider (CSP) model, or a multi-CSP model, or a hybrid model involving combinations of on premises assets and cloud services. We use our Cloud Factory toolbox that provides the best practices, established scripts, blueprints, and account structures to deliver a Cloud Architecture and Design document, an Application Migration Plan and Schedule, and an estimated Cloud spend budget with Monthly Recurring Cost (MRC) forecasts.

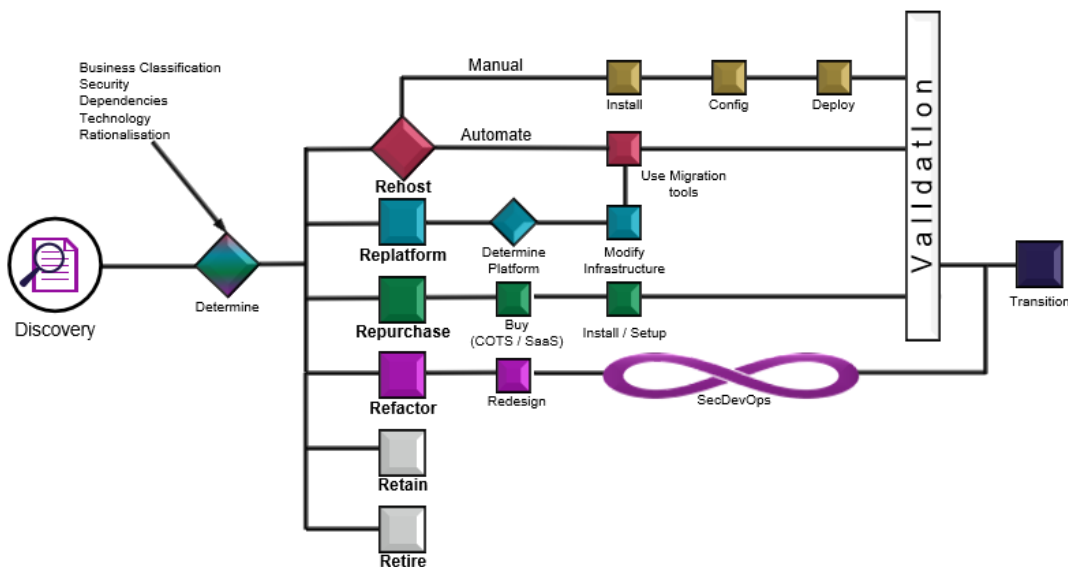


Following the approval of the cloud architecture and design, we establish a landing zone and deploy all the tooling required to migrate, manage, and develop your workloads, including cloud account organisations. This may be our Leidos CORE product where the use case is correct, or a cloud native offering such as Amazon Web Services Secure Environment Accelerator (ASEA) or may contain elements of both. This is all performed using automated process and tooling for accuracy and speed. We also create bespoke policies and templates to leverage automation and ensure IT security best practices are followed for your new cloud platform.

Security is always a top priority. Security leverages established Security Management Plans (SMP) while validating application migration readiness and resources allocation. Results from this phase include a refined Cloud Architecture and Design Document, launched cloud accounts and services.

Migrate

With the Cloud Architecture and Application Migration Plan completed, we use our proven assembly line concept to accelerate migrations of applications with common architectures and complexity to the cloud. Our



Cloud Factory configures, optimises, and operates the application migration “production lines” (see Figure 4). This includes the final configuration of the technology stack, assigning agile development teams, and creating a sprint schedule for each application. Within each production line, we follow a DevSecOps approach to perform assembly line proof of concepts (POCs):

Figure 4 - Workload Migration Production Lines

- ▶ Validation through User acceptance testing (UAT), customer reviews and approval; and
- ▶ For refactored applications, we would use an agile / DevOps approach creating alpha, beta releases.

These elements feed the next phase as services go into production in your new cloud platform.

Manage and Optimise

Once workloads are starting to be migrated, we provide 24x7 managed services to secure, maintain, and optimise your cloud environment. We deliver managed services from our EITOC based on Service Level Agreements (SLAs). We use our specially selected suite of tools to monitor, manage, provision, secure, and report. As each application moves out of the Cloud Factory assembly line, we conduct a Transition-To-Operations (TTO) to perform the managed services that includes elastic engineering, resource utilisation, cost optimisation, and IT security best practices as equal parts of the continual service improvement process.

As an independent organisation, we are vendor agnostic which gives us the benefit of not being constrained in our technology choices or approaches. Whilst we are knowledgeable in the preferred methodologies of our partners and suppliers, we develop solutions and recommend technologies which are best fit for purpose, whether they are open source, COTS or bespoke software solutions. We focus exclusively on public sector and our services are delivered from security cleared UK based teams.



Our Cloud migration methodology is based on industry best practices informed and developed through our partnerships with AWS and Microsoft (for Azure), and benefits from our long history and track record in delivering high quality solutions to the UK public and defence sectors. Our solution Architects, Cloud technology SMEs and project / programme managers define, design and deliver all we do in accordance with the Leidos Cloud Framework.

We design services with manageability, corporate responsibility and sustainability foremost in our mind. We can support your new cloud services or help you support them by ensuring you have the staff in place capable of operating with your new environments, technologies and services.

Features and Benefits

Leidos Cloud Migration Services cover all areas of cloud transformation, delivering independent and impartial business and technical advice and solutions. The features and benefits of the Leidos Cloud migration service are shown in Table 1 below.

Table 1 - Features and Benefits

	Features	Benefits
Strategise	Business focused requirements gathering and assessment.	You can be assured that we understand your organisation and design the migration process and the final Cloud solution to compliment it.
	Carried out by experienced Business Analysts and Consultants using tried and tested techniques.	
Discover	Focused workload discovery and assessment using best in class tools and techniques.	Discovery is thorough, focused and efficient, meaning we arrive at an architecture and migration plan quickly allowing progress to the build and move and migrate phases.
	Carried out by our security cleared experienced, expert engineers.	
Build	Cloud Architectures are built using tried and tested automated tools and scripts which deploy all the architecture and all required tooling for the migration and ongoing management of your workloads.	The cloud environment is built securely and ready to receive workloads quickly, often in a single sprint.
Migrate	Our Cloud Factory uses production line model for the migration of applications and workloads, with each production line handling a different set of tasks - e.g. rehost, refactor, re-platform.	Multiple worker threads and specialist production line teams in migration means quicker results.

Manage & Optimise	Formalised handshake and handover and support procedures.	Our dedicated Cloud support teams are ready to support your cloud environment as soon as your first application or workload is migrated.
	Leidos 24x7 Cloud Support comprises experienced cloud support engineers trained in the tooling and processes to support your environment	

Specialisms

Among our specialisms are:

- **Application development and management** - Leidos has a long track record of developing and managing applications, both in cloud and on premises, using modern Agile methodologies, such as Scrum, DevOps and Scaled Agile Framework (SAFe);
- **Architecture** - Leidos has strong capabilities and reliable methodologies in developing cloud architectures aligned to business strategy, organisational models and information architecture. Moreover, we help our customers plan for and implement the changes that are required, including stakeholder engagement and management, and governance models. Our goal is to ensure our customers enjoy the benefits and experience of a predictable transition to their future cloud based estate;
- **Cloud Migration Strategy and Planning** - Leidos provides cloud focused advisory services in this area as a standalone capability or as an element of any services Leidos delivers. We work with our clients to develop, review and/or assure a cloud-based architecture, ensuring business goals are delivered. Moreover, we provide solution architecture services that build upon our customer's assets, as well as transitioning to future cloud platforms. In this regard, Leidos helps customers, through professional advice and guidance, to create the right supply chain with the right solution and architecture;
- **Cloud Transformation Business Case Development** - We work with our customers to develop strong business cases that will deliver IT enabled change programmes aligned with senior management objectives and tailored budgets;
- **Cloud Instantiation** - We can build your Cloud environment for you to manage and operate;
- **Cloud Management** - We can manage and optimise your cloud environment on a 24/7 basis;
- **Troubleshooting** - We pride ourselves on constantly delivering independent and impartial reviews of cloud transformation problems, as well as outlining the options and recommendations to resolve issues. And of course, where applicable, we help our customers deliver the resolution they require;
- **IT Governance** - This is one of the most underestimated and yet critical parts of any successful migration and transformation programme, in our experience. Our customers appreciate our insight of the governance models built into our services that ensure business need drives IT change from decision making, cost-benefit and compliance perspectives;
- **Procurement** - Leidos delivers reliable advisory services that help deliver value for money through the procurement lifecycle, we work with our clients to understand their budget constraints;
- **Cloud Audit** - Leidos provides a structured analysis of cloud related risks to deliver business benefits. The audit covers areas including controls, architecture and all elements of the cloud environment (platform, applications/software, systems, security and communication systems), which in turn allows our clients to be ready for an IT audit;

- **Feasibility Study** – Leidos provides a personalised assessment based on a structured analysis of cloud technology and business related risks to determine whether your organisation has the expertise to successfully introduce a desired idea or change;
- **Business Process Management** – Leidos works with customers to analyse their cloud and business processes with a view to providing future state options that automate and improve processes that, in turn, enable business and policy goals to be achieved;
- **Project and Programme Management** – Leidos has a specific and successful approach to Project and Programme Management, which we can apply to any cloud programme or project.
- **Sustainability** – our optimised approach to cloud migration and cloud management promotes sustainability and supports net-zero / low carbon.

We can deliver consultancy relating to any phase of our cloud migration services on a time and materials or fixed price basis, remotely, on-site throughout the UK, or from any of the Leidos offices. Leidos deploys staff from a wide pool of onshore resources covering all technology and business process service lines, as required.

2 ANY ONBOARDING AND OFFBOARDING SUPPORT YOU PROVIDE

Where relevant, Leidos will adopt a consultative approach with customers to define and validate their requirements in order to determine how best to engage with the services. The onboarding and offboarding process is dependent on the specific requirements of the solution, and the delivery methodology agreed upon.

3 PRICING

Please refer to the associated Pricing Document relevant for this Service

4 TERMS AND CONDITIONS

Please refer to the associated Terms and Conditions Document relevant for our Service Offerings

5 FURTHER INFORMATION

Please send your requirement to publicsector@uk.leidos.com. Alternatively, if you wish to discuss your requirements in more detail, please send us the following information and we will be happy to contact you:

1. Your organisation name
2. The name of this service
3. Your name and contact details
4. A brief description of your business situation
5. Your preferred timescales for starting the work.

ABOUT LEIDOS

Leidos is a leading partner to the UK government and the Scottish government as well as having key client partners in transportation and energy. Leidos employs 1300 people across the UK supporting technology and business process transformation programmes for clients such as the Home Office, the Ministry of Defence, the Metropolitan Police Service and NATS.

The success of this work in the UK and beyond shows that we are a trusted partner in the region and that our people can deliver innovative solutions to solve the most challenging problems.

LEVERAGING OUR CORE CAPABILITIES

Our technical core capabilities define the areas in which technical excellence is critical, not only for our business, but in the work we do daily to help customers achieve the important missions on the frontlines of their industry. Explore our core capabilities [here](#)



Digital Modernisation



Cyber Operations



Mission Software Systems



Integrated Systems



Mission Operations



INCLUSION AND DIVERSITY IN LEIDOS UNITED KINGDOM

Leidos is committed to creating a diverse and inclusive workplace, where every colleague has the opportunity to contribute, share their unique ideas and talents, and be supported in their career. Explore Inclusion and Diversity in the UK [here](#)

SOCIAL VALUE

We're committed to supporting sustainability initiatives, tackling workforce inequality and STEM education by enriching the communities to our operations. Learn more about Social Value in the UK [here](#)