Service Definition

G-Cloud 15

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Colt Network, Application, Cloud, and Security Consultancy Services

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1. Services Overview

1.1. Consultancy Services Practice

Colt's Network, Application, Cloud and Security Consulting and Implementation services offer end-to-end IT expert capabilities, including strategy, planning, design, and implementation. - including support for hybrid IT models across on-premises, third-party and Colt datacentres.

Colt resources work as an extension of your organisation. Security Cleared, UK Based Resources with significant experience in Private and Public Sector can work alongside your teams to audit, evaluate, analyse, design and deliver. A broad portfolio of IT systems and strategy consulting skills are available, providing vendor and technology agnostic recommendations based on most suitable fit.

Engagements range from Resource Augmentation to Full Consultancy led Programmes.

Available Roles

Colt can provide resources at three core levels of expertise. These levels are:

- Architects
- Consultants
- Engineers

These levels are outlined in the next paragraphs.

Architect level roles

Architects have broad expertise or specific knowledge. They have skills to contribute to development of company objectives and principles and to achieve goals in creative and effective ways. They can work on significant and unique issues where analysis of situations or data requires an evaluation of intangibles, exercise independent judgment in methods, techniques, and evaluation criteria for obtaining results. They can create formal networks involving coordination among groups. They act independently to determine methods and procedures on new or special assignments. Roles typically require a Bachelor's degree or equivalent education and experience. 12+ years related experience. 8 years related experience with Master's degree.

The available roles are:

- Technical Architect
- Solutions Architect
- Network Architect
- Security Architect
- Migrations Architect
- Citrix Architect
- Systems Architect
- Storage Architect
- Database Architect
- Technical Design Authority
- Test Manager

Consultant level roles

Consultants have substantial experience in their specialist field and in a consultancy/training role. They will have previous experience in providing specialist technical/subject advice and guidance, and evidence of working on a wide range of high quality and relevant projects. They will have familiarity of the issues/problems facing public sector organisations. 5+ years of related experience in their specialist field.

The available roles are:

- Systems Consultant
- Windows Consultant
- Storage Consultant
- Security Consultant
- Applications Specialist (Install & Config)
- Applications Specialist (QA Testing)
- Database Specialist / DBA

Engineering roles

Engineers have notable experience and in-depth knowledge of their specialist field. They have evidence of a wide range of consultancy projects and client facing experience. They can support work in process and organisational design and lead workshops and events.

They will have 3+ years of engineering experience in their specialist field.

The available roles are:

- Infrastructure Engineer
- Systems Engineer
- Network Engineer
- Storage Engineer
- Security Engineer
- Build Engineer
- Facilities Engineer

Strategic & Systems Consulting

Strategy services that enable agility, optimise costs, and transform IT organisations.

- CIO Strategy
- Systems Consulting
- Application Consulting
- Business Continuity/ Disaster Recovery

Application Development & Management

Full Software Development Life Cycle (SDLC) application services — design, deployment, and management — for Commercial-off-the Shelf (COTS) and custom developed applications.

- Advisory Services
- Implementation
- Maintenance

Data & Analytics

Work data to drive strategic and tactical decision-making, using our Analyse-VisualizeMonetize™ methodology.

- Decision Sciences
- Big Data
- Business Intelligence

Security

Complete assessments, security programme architecture and design, deployment, and management services across networks, applications, devices, and the cloud.

- Strategy, Risk & Compliance
- Network & Application Security

- Identity & Access Management
- Data Security

Design & Transition
For colocation, managed hosting, and cloud:

- Assessments
- Server-based Migration
- Equipment Relocation service

Disaster Recovery
Comprehensive DR service offering — design, deploy, test — customizable to business needs.

- Business Impact Analysis
- DR Readiness
- DR Design & Implementation
- DR Test Planning & Support

Quality Assurance & Trialling
Centralised trialling capabilities with mature, automated processes across the entire SDLC.

- Hosting/Cloud Migration Trialling
- Performance Trialling
- Automation Trialling (Sanity, Regression)
- Test Environment Management

1.2. Cloud Consultancy Practice

1.2.1. Cloud Strategy & Advisory Services

Colt's Cloud Strategy & Advisory Service helps UK Government departments enable their digital transformation by accelerating time-to-value from cloud and technology investments.

Our aim is to define what success means for each public sector organisation and cloud adoption. Utilising our own decision-making framework, industry standard tools and specific Cloud Adoption Frameworks, we provide comprehensive and cloud agnostic guidance on your adoption of public, private or hybrid clouds.

Working closely with the hyperscale cloud providers including AWS and Microsoft, we engage with our enterprise customers to offer guidance, tools, and build stories that help shape business, technology and transformation strategies. We help customers create a long-term business strategy for adoption of the right cloud. Whether its migrating to a modern hyperconverged private cloud, a fully scalable, flexible and automated public cloud, or repatriating from public cloud to private cloud, Colt can help.

1.2.2. Cloud Architecture & Design Services

Colt's Cloud Architecture & Design practice consists of expert platform design architects who have long heritage, knowledge and experience of designing a secure, high-performing, resilient, highly available, optimised/efficient, private, public and hybrid multi-cloud solutions. Our multi-cloud architectural designs are based on proven best practices that we have learned from many customer engagements ensuring standardisation and repeatability. For our Cloud architects that means we expect every team member to have the capability to create architectures and to follow best practices. As principal cloud architects see new best practices emerge, they work as a community to ensure that rest of the teams follow them. In time, these best practices are formalised into our internal review processes, as well as into mechanisms that enforce compliance.

1.2.3. Cloud Migration Assessment Services

Colt's Migration Assessment is designed to accelerate Cloud adoption by helping UK Government to evaluate options for application modernisation & migration either to Public, Private or Hybrid Cloud services. We help businesses to build an application centric migration strategy, a cloud business case and collaboratively build a realistic transition plan by clearly articulating cost of cloud consumption and change in investments to adopt right cloud operating model e.g. IaaS, PaaS & SaaS.

Colt understands that organisations have various tools and methods already employed for inventory management (CMDB tools). We work with our customers to gather, analyse existing data and manipulate according to the needs of the assessment. Colt will deploy and utilise Cloud native tools where enhancement to the fidelity of discovery data is required or there are gaps in the data to quickly assess and analyse against the target cloud workload right sizing best practices, coupled with our own methodology developed over many years. This combination of analytics and intellect ensures that Colt recommendations make sound business sense.

In addition, Colt's approach is agile, transparent, and collaborative where our vision is to be the most trusted and agnostic partner for your business. During migration assessment, we strongly believe in making decisions based on variety of perspectives and hence are heavily reliant on conducting sprint-based workshops with your application owners, developers, and infrastructure owners and operations staff to create a cohesive view, overcome challenges and encourage new idea generation for doing things differently in the Cloud. The aim of the service is to generate an accurate view of customers' IT footprint/estate across technologies and applications, quickly assess current workloads, application software stacks against the "6 R's of cloud adoption".

1.2.4. Cloud Migration Planning Services

Colt's Application Migration Planning service is designed to create a plan in order to deliver successful cloud migrations. Colt and Customers work collaboratively in a cross functional agile team to establish iterations (Sprints), understand velocity (sprint frequency), iteration planning (Waves and Sprints), release planning (Waves and Release Groups) and assign resources for each iteration tasks (Playbooks). Colt will also recommend creating a Cloud Centre of Excellence Team/Office who can be the catalyst within an organisation.

The Application Migration Planning takes the Cloud Migration Assessment data and then begins grouping applications based on patterns in the portfolio. The aim at this stage of would be to work together in order to define group of applications and related workloads that were previously prioritised & identified during the Assessment phase. It identifies order of migration and the migration strategy (i.e. "The 6 R's of Cloud Adoption") for migrating the given pattern. Special cases may also be identified that need special handling.

Colt will also work with the application owners, developers & infrastructure architecture, and support & operations staff to finalise or fine-tune the landing zones, architectural design patterns, assess migration pre-requisites and validate the target state architecture that cater for individual application needs. At this stage migration strategy might need to be re-adjusted based on the decisions that are dependent on technical limitations, resource availability, Governance needs, Cost implications, 3rd party costs, etc. This process identifies readiness, gaps and makes recommendations to fill those gaps in preparation for a large migration effort.

1.2.5. Cloud Migration Execution Services

Colt's Migration Execution service delivers migration of critical business systems, application workloads, databases to target choice of technology from Multi-Cloud portfolio (Private, Public or Hybrid Cloud) platforms. Colt will use the modern cloud principles like site reliability engineering to ensure migration can be accomplished with most reliably, securely and in an optimised end state that is managed efficiently operationally. The goal is a smooth and automated migration to the cloud.

Colt's experts will utilise outputs from migration assessment and planning stages in order to create a detailed migration playbook with hour-by-hour activities for the day of migration. Also, determine and agree in-hour vs. out-of-hours migration and resource requirements on all parties and commit to availability during and after migration.

1.3. Data Centre Migration Programme

The Colt DCMP (Data Centre Migration Programme) is a technology transition and implementation solution service that provides comprehensive steps toward data centre migrations and is designed to achieve following:

- Detailed Discovery
- Systemic Analysis of Business and Application Needs
- Analytics Based Transition Roadmap
- Design and Transition of Infrastructure, Applications and Data Using Various Technologies
- Risk Managed Transition Planning
- Detailed Planning
- Proven Process & Governance Foundation

The DCMP supports each component of a data centre migration from high level planning through to project execution. The Colt process allows optimisation of the business IT environment by establishing, improving, and ensuring that current practices meet operational levels of excellence.

1.4 Security Risk Assessments

The Colt Security Risk Assessment service is designed to support customers in understanding the information assurance risks of a system, as well as the associated business risks. The service can be utilised to assist in the early design of a system, review the status of a live system or in order to assist with meeting specific certification and customer requirements.

The service is customisable and tailored; our security specialists will work with clients to ensure the risk assessment is correctly scoped and uses appropriate assessment tools. A range of assessment options are available including HMG IA Standard 1&2, ISO27001 and the IA Maturity Model.

Our specialists are able to assist with all aspects of the risk assessment process including asset identification, impact analysis, threat assessment, vulnerability analysis, risk prioritisation and risk mitigation planning. Assessment reports are also tailored to suit the client requirements; from the document structure (RMADS, Gap Analysis) down to specifics such as the risk classification (qualitative or quantitative).

Colt will deliver the results of the risk assessment in appropriate business language with a management summary and are able to present the findings at follow up meetings or workshops.

We have a number of security specialists with industry relevant security certifications and specialisations including:

- CESG Certified Professionals (CCP)
- ISO27001 Lead Auditor and Implementer
- Certified Information System Security Professional (CISSP)

The assessment, models and outputs can all be tailored to client requirements depending on the identified needs. Colt security specialists can work with the client to scope appropriate options during the initial engagement.

1.5 Public Cloud Landing Zone Creation

Colt provides Landing Zone solutions for both AWS and Azure, that help customers accelerate their public cloud deployments in a secure, multi-account environment based on best practices.

AWS and Azure have a wide range of design choices, setting up a Direct Connect (AWS) or Express Route (Azure) connection and a multi-account environment can be complex and time consuming involving the configuration of multiple accounts and services requiring a deep understanding of the respective cloud services.

Colt can help save time by automating the set-up of an environment for running secure and scalable workloads while implementing an initial security baseline through the creation of core accounts and resources. This also serves as a baseline environment to get started with in a multi-account architecture, identity and access management, governance, data security, network design, and logging.

Colt will conduct and lead a one-day design workshop in order to gather data about the Landing Zone and associated services including, but not limited to areas such as: Account Structure, Application Architecture, Networking, Compute, Storage and Security requirements. If the application architecture and dependencies are

largely unknown, Colt can provide a separate Application Discovery Service in order to understand the interdependencies and application workflows.

The outputs of the workshop and discovery service provide the necessary data required to complete high and low-level design documents. Once the design has been approved Colt will begin the deployment and implementation phase. As part of our quality assurance Colt performs the appropriate infrastructure tests as well as holding a complimentary one-day knowledge transfer session as required.

- Solution Requirement and Analysis Workshop – 1 Day
- Solution Design – 4 Days
- Deployment and Implementation - 4 Days

1.5.1 Landing Zones for Health and Social Care Network (HSCN)

In addition to generalised Landing Zones on both AWS and Azure, Colt has the capabilities to create the same multi-account architecture for HSCN customers supporting the UK National Health Service (NHS) cloud initiatives.

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