Google Cloud Consulting Services

Mphasis Google Cloud Management Capabilities

Mphasis Enhances Your Business with Google Cloud: Scalable, Secure, Highly Available and Innovative Cloud Solutions

Service Portfolio

Customized and Scalable Model

Domain Expertise

Strategic Guidance / Professional Advisory

Insights | Strategy | Results

Assess Google Public/Hybrid Cloud adoption requirements	Cloud Managed Services	Google Cloud Architecture Framework Review	TCO Comparison/Cost Analysis
Identify the present challenges and the rationale behind selecting Google Cloud	Evaluate the existing GCP infrastructure and identify areas of improvement	Assess the current environment according to GCP best practices	CapEx/OpEx and ROI Analysis
Develop a Strategy for Adoption, Outline a Roadmap, and Define Success Criteria	Role of a Managed Service Provider	Recommendations Based on Policies and Guidelines	Cost Optimization Assessment
High level deployment Architecture and Proof of Concept (POC)	Identify Opportunities for Automation	Compliance and Patch Management Advisory	Comprehensive Recommendations for Cloud Workload Optimization

GCP Pricing Calculator | Migrate for Compute Engine | Google Cloud VMware Engine | Storage Transfer Service | Distributed Cloud | Migrate to Containers | Cloud IAM | SOLARWINDS (Discovery and Mapping) | Corent

Roll out & Divestiture (M&A)

Transform | Accelerate | Modernize

Migration & Merger, Carveout Greenfield/Brownfield Setup	GCP Landing Zone Setup	Business Continuity and Disaster Recovery(BCDR)	Modernization
GCP Workload Migrations, Compute Engines, Storage, and Enterprise Applications	Build Google Cloud Solutions According to the Well Architecture Framework (WAF)	Design HA using Auto Scaling, Elasticity, Availability Zones (AZs), and Regions	Migrating to Cloud-Native Services such as GCP Functions, Kubernetes Engine
Hybrid Cloud: GCP Anthos, Google Cloud VMWare Engine, Distributed Cloud	Google Cloud Identity and Access Management, RBAC, MFA	Failover design, replication, data resiliency, and defining RTO & RPO	Integration of CI/CD pipelines with DevOps Products
Database and Storage Migration Utilizing Mphasis Accelerators	Network topology and Hybrid Connectivity	GCP Disaster Recovery & Backup , and Third-Party Tools such as Zerto	Data Modernization using services such as Cloud SQL and Cloud Spanner

Database Migration Service | Anthos | Container Registry | Cloud CDN | Cloud Load Balancing | Cloud Storage | Google Kubernetes Engine | Backup and DR | Cloud DNS | Cloud VPN | Cloud Interconnect | VMware HCX | Zerto

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Hybrid Infrastructure Managed Services

Transition | Governance | Delivery Excellence

Infra Lifecycle Management	Data Protection	Observability	Automation
Using IaC for provisioning, managing, and deprovisioning cloud solutions	Backup solutions with GCP Backup and third-party backup tools	Google Cloud Monitoring and Logging	Google Cloud Deployment Manager and Terraform
Platforms, Database, Middleware, Storage & Backup & Containers administration	DR using GCP Disaster Recovery and third-party cloud-native tools	Google Cloud Profiler	Google Cloud Composer
ITSM via InfraGene, including patching and continuous service improvements	Data Encryption at Rest and In-Transit, Data Integrity checks	Google Cloud APIs	Google Cloud Functions

Compute Engine, Cloud SQL, Cloud Key Management, Managed MS Ad, Cloud Functions, Mphasis Infragenie The Next Applied, Bare Metal Solution, Grafana, JetPatch

FinOps on GCP

Inform | Optimize | Operate

Visibility and Transparency	Budgeting and Forecasting	Governance and Policy	Optimization and Efficiency
Cost Management and Cost Explorer.	Setup Budgets, Monitor and Alerting	Configuration for standardization and accounting	Capacity Planning and Dynamic Scaling
Resource Tagging, Cost Allocation and Chargeback	Forecast based on Historical Data	Cost Monitoring and Notifications	Leverage GCP Reserved Instances
Customized GCP Dashboards	Cost Analysis and Recommendations	FinOps Training and Prompt Reviews	Leverage BYOL.

Cloud Billing API, Cloud Console, Cloud Logging, Cloud Profiler, FinOps Education, Cloud Monitoring, Tags, APPTIO, kubecost, Corent

Mphasis GCP Credentials

2020 partnership journey begins..

Industry Verticals

Banking & Financial Services, Logistics, HealthCare, Retail, Manufacturing

Managed Global System Integrator Partner

Google Cloud Partner

Partner Expertise Status

- ❑ Google Cloud Analytics
- ❑ SAP On Google Cloud
- ❑ Financial Services
- ❑ Apigee

Depth and Specialization in GCP

- ❑ Data Migration and Modernization to Big Query
  - Data Warehouse
  - Data Lake
  - Data Appliance
  - Databases
- ❑ Legacy Mainframe Modernization
- ❑ Digital API Platforms with Apigee & Anthos
- ❑ Hybrid Multi-Cloud Architectures
- ❑ 200+ AI/ML Models NextLabs
- ❑ GCVE & VMWare PCF workloads to GCP

1000+ GCP Professionals

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Cloud Architect, Mphasis

Mphasis Migration Approach

Mphasis
The Next Applied

INPUTS

Infrastructure Inventory

In Scope apps & Mapping

Design & planning workshops

Cloud

License

LZ via IaC

Approvals

Mig Team

Tools and Access ability

ACTIVITIES

Discovery & Assessment

- Discovery of Infrastructure elements including Servers, network, Backup, Storage components, Tools, etc.
- Application mapping & Dependency Analysis
- Risk & Gap Analysis

Design & Planning

- High/Low Level Design
- Architectural Design documentations
- Wave Group Planning
- Data Center Design
- Migration & Validation Checklist
- Risk Mitigation Planning

Infrastructure Readiness

- Cloud subscription procurement guidance & readiness
- Landing zone deployment using IaC - Identity, Backup, Observability, Disaster recovery, Security elements, management services and Core Infrastructure services

Migration

- Pre-Migration Activities
- VM Migrations based on the Wave group planning
- Perform Rehost (lift & Shift) of the workloads
- Post Migration Activities
- Enablement of HA & DR
- Testing & Validation

Decommission

- Asset Identification for decommission
- Validation of Migration
- Secure Erase of the Data
- Disposal of asset
- CMDB updation

OUTCOME

- Comprehensive Inventory Report
- Dependency Matrix for Apps
- Migration Strategy inputs
- Identified Risks & Gaps
- Capacity Planning

- Detailed Migration Plan
- Tools Selection for Migration
- Timeline based Wave Mapping
- Compliance & Security policies documented

- Infrastructure Readiness for Migration
- Secure and Operational N/W environment
- Security hardening enablement

- Migration Success
- Validated & documented environment
- Smooth Handover to BAU

- Accurate CMDB
- Availability of freed-up licenses
- Industry standard security & compliance adherence
- Successful exit of old DC

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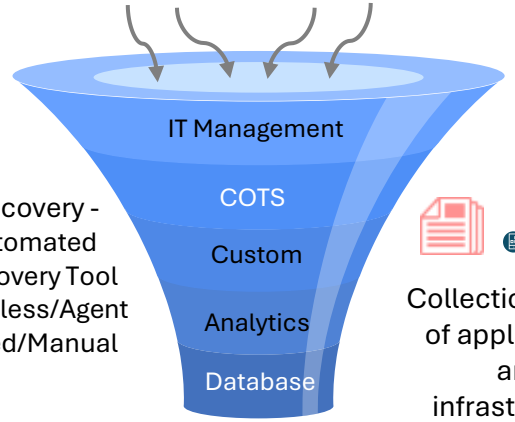
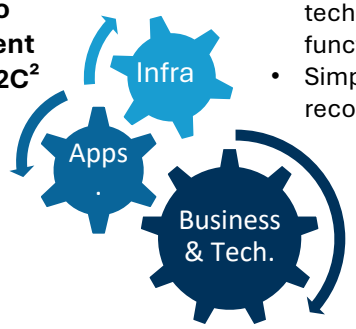
Mphasis Migration Methodology



Discovery - Automated Discovery Tool Agentless/Agent Based/Manual

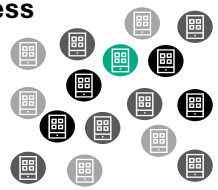
Collection of data of applications and infrastructure

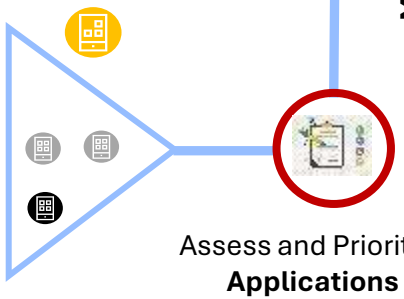
Portfolio Assessment Engine - X2C²



- Perform analysis of technicality and functionality
- Simplification and recommendation

Application Rationalization Process





Assess and Prioritize **Applications**

Determine Migration Path

Re-Host

(Lift and Shift)

MANUAL

Manual Install of Binaries → Manual Configuration → Manual Deploy

AUTOMATED

Image and Binary migration

Re-Platform

(Lift and Reinstall)

Binary Migration/ Reconfigure Apps → Modify Infrastructure Configuration

Re-Place

(Evaluate and Shop)

Purchase COTS/SaaS Licensing → Manual Install and Set Up

Re-Factor

(Rewrite, Reconfigure Defined by CEI f/w)

Readjust App and Infra Design → App Code Re-factor → Full ALM → Integration and Data Migration

Build → **Migrate**

Retain

(Keep as-is)

Retain and re-evaluate at the appropriate time/periodically

Retire

(Simplify by Moving Out)

Retire by Decommissioning and Archiving the Data

Validation

Transition

Mphasis Compliance Management Practices

Mphasis has industry-wide experience in developing technology solutions, developing safety-critical applications, streamlining IT infrastructure, and is accredited with ISO 9001, Cyber Essentials, CMMI Level 5. Mphasis has a wide experience working with different government bodies in the UK. Our work with the Public Sector organisations helps them align with best practices and use Government Digital Service Standards to deliver Digital Services and follow NCSC Cloud Security Principles in all our cloud engagements.

Mphasis demonstrates robust compliance and governance practices through:

Quality and SLA Adherence:
Clear metrics and SLAs for response times, ticket resolution, customer satisfaction, cost management, and resource retention.

Security Compliance:
Implementation of required controls to comply with client information security requirements, such as those specified by Huawei.

Risk Management:
Detailed risk identification and mitigation plans covering process, people, knowledge transfer, infrastructure, and resource management risks.

Knowledge Management:
Emphasis on effective knowledge transfer, documentation, and validation to ensure compliance and minimize operational risks

Delivery Governance:
Structured reviews at multiple organizational levels (from President Global Delivery to individual managers) with regular frequency (quarterly, monthly, weekly, and as part of appraisal cycles).

Change and Incident Management:
Standardized ITIL v3 processes, change control boards, incident lifecycle management, and continuous service improvement initiatives.

Mphasis Compliance Management Practices (Continued)

Certifications Supporting Compliance

ISO 9001:2015 – Quality Management Systems

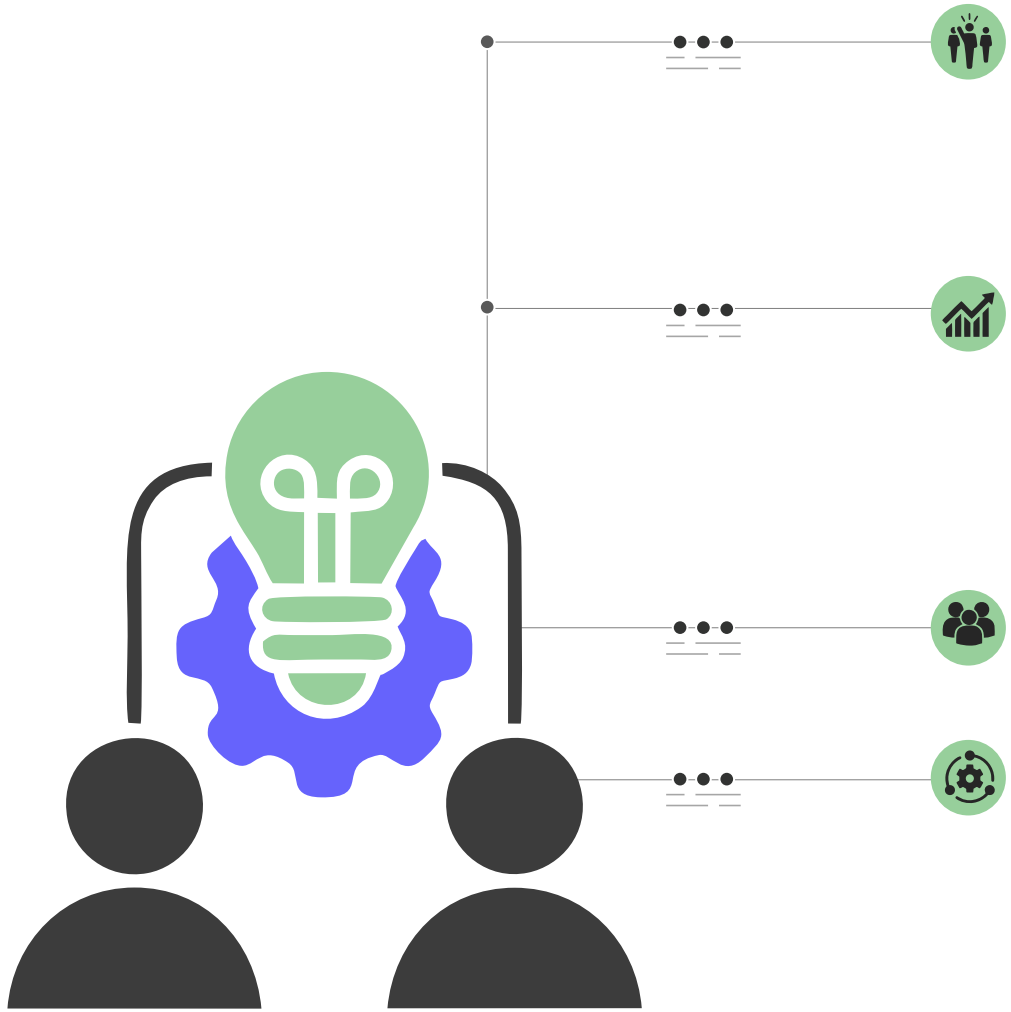
ISO/IEC 27001:2013 – Information Security Management

ISO 14001:2015 – Environmental Management Systems

ISO 45001:2018 – Occupational Health & Safety

ISO/IEC 20000-1:2018 – IT Service Management

Skill and Knowledge Transfer at Mphasis



With our experience and quality engineering thought leadership, Mphasis will work with buyers to establish a fit-for-future knowledge transfer plan powered by Cognitive solutions. It will bring people, process, technology, and innovation to deliver mature testing services with continuous improvement and build in-house capability to fulfil the fit-for-future roadmap.

We have designed and developed a web-based learning experience system called “TalentNext” as a one-stop destination for Learning and Development initiatives. Curated and graded courses aligned with immediate and upcoming business requirements are hosted on TalentNext and available to all learners. The platform also includes skill training development for candidates from disadvantaged groups. To date, 30k+ learners have been onboarded on TalentNext.

Mphasis employs a structured, role-based knowledge transfer (KT) framework to ensure seamless transition and minimal disruption to business operations.

The process is supported by dedicated transition management teams, digital dashboards, and proprietary AI-based tools for knowledge mining and assessment.

Further Information: For more information about our G-Cloud services, please contact our Public Sector Team at mphasisukps@mphasis.com

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