

# De-risk your Google Cloud environments

## Google Cloud Platform - Risk & Control Foundation. A framework for cloud success in regulated industries

### Moving at the speed of digital – but not overlooking risk

The sheer pace of today's digital economy is pressuring companies to drive greater agility, accelerate product development and business value creation.

In this chaotic climate, adopting cloud infrastructures like Google Cloud Platform (GCP) has become a strategic priority.

But the cloud is not without risk – particularly for organisations in highly regulated industries such as banking, utilities and the public sector. Organisations must ensure the confidentiality, integrity and availability of business-critical applications, whilst protecting business and customer data.

Migrating to GCP will mean evolving your operational, security, risk and compliance capabilities and practices significantly beyond those designed for on-premise IT. Failure to do so will impair the benefits of the cloud – and may leave critical assets unprotected.

These are pressing concerns for firms in heavily regulated sectors, where breaches can mean severe penalties from regulators.

As a result, cloud adoption is often slow in these sectors, due to red tape and a lack of confidence in internal security controls.

Highly regulated organisations can spend up to 18 months establishing a Cloud Controls Framework (CCF). One banking institution told KPMG they'd spent three times the cost of their cloud platform build developing their CCF.

### Our framework for agility and security

KPMG's GCP Risk & Control Foundation balances the conflicting needs for speed and safety in highly regulated sectors.

The framework manages the security, operational and resilience risks that come with migrating to, and operating on, GCP. And it helps you to understand, mitigate and manage these risks, while complying with relevant regulation.

This allows you to quickly configure KPMG's design for a foundational GCP instance to your specification, which meets internal audit, security and regulatory requirements. So you can start moving production workloads to GCP quickly and safely.

### Complex cloud agendas

Adopting the cloud means balancing the different priorities of different stakeholders:



#### — Chief Executive Officer

Faster returns on investment realised in business transformation through the accelerated process of standing up a secured and compliant cloud platform

#### — Chief Finance Officer

Greater and faster ROI thanks to a rapid migration at minimum cost

#### — Chief Risk Officer

A compliant platform that meets regulatory requirements, aligns with the board's risk appetite, and offers resilience, agility, efficiency, and speed to market

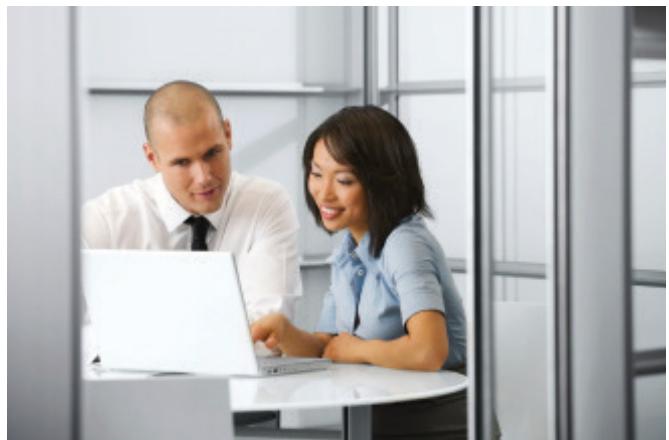
Developed over a number of years through our work with global enterprises in regulated sectors, the solution combines our deep multi-industry knowledge and experience of:

- the global regulatory environment
- the risk and controls landscape
- working with regulators to approve cloud implementations
- GCP engineering
- technology architecture design, integration and implementation
- cybersecurity
- risk assessment and management

The result is a pre-designed cloud controls framework, based on KPMG industry best practice and embedded in GCP technology. It describes both the **Controls Framework** (the 'what') to meet regulation and the **Implementation Guidelines** (the 'how') in order to achieve the framework requirement. And it complements the widely used Cloud Control Matrix provided by the Cloud Security Alliance (CSA).

## Key features

- **Speed and security:** fast, safe adoption of GCP for critical workloads
- **Regulatory standards:** alignment with common European regulatory frameworks and guidelines
- **Flexible guidance:** templates for executing controls, which can be adapted to your organisation's specific GCP environment
- **Comprehensive policies and controls:** including 153 controls that cover industry standards, security and regulatory requirements
- **A complete checklist:** to verify that controls have been executed
- **Terraform code to instantiate GCP and training:** so you can take on the 'business as usual' operation of the instance



## How it works

Our GCP Risk & Control Foundation is delivered by multi-disciplinary teams with world-leading skills in cloud operations, technology enablement, technology risk and cybersecurity.

We've invested time and resource in testing multiple GCP infrastructures and configurations. This has enabled us to link best risk practice and controls to security guardrails within the platform – dramatically reducing the effort needed to implement cloud foundations.

The risk and control framework entails:

- a policy review and interviews with your key stakeholders by our risk and controls experts
- tailored configuration of the KPMG designed Google instance to meet your specific requirements
- deployment of a pre-tested GCP environment with foundational controls into your Google instance
- consultation with your internal security and controls teams to configure your environment to your regulatory demands
- application of a set of policies across your platform

## The benefits

Our GCP Risk & Control Foundation:

- gives you a pre-tested GCP configuration with foundational policies and controls, saving you time and de-risking adoption
- allows you to rapidly and securely adopt GCP, then use it to best effect for your business, providing templates for future projects to safely adopt cloud
- accelerates the path to live thanks to automated guardrails that translate the policies, creating consistent compliance and eliminating sprawl of unsafe configurations

- embeds robust, tailored cloud controls into your 'business as usual' operations
- creates clear, auditable traceability between your controls and your cloud environment for internal audit, security teams and regulators
- helps you understand ownership, accountability and the processes required to accelerate your cloud ambitions

## Why KPMG?

As a Google Premier Partner and Cloud Security Alliance (CSA) member, KPMG has global GCP implementation experience, and extensive risk and regulatory expertise. This has been bought to bear to combine best practices into a pre-configured Google Cloud design that will be deployed in a customer's instance. Some example features include:

- application of Forseti policy repository to prevent SSH access to Google instances from public IP addresses and automates the security of your GCP environment
- using Identity Aware Proxy to gain access to servers and application with your Single Sign-on system, without any operational and management overhead
- using Google Event Threat Detection system based on AI to notify administrators when suspicious activity is taking place within or at the perimeter of the GCP environment

We regularly help global, highly regulated organisations to review, assess, design and implement cloud technologies, policies, processes and governance. And we support them on their journey to the cloud by:

- shaping and delivering their cloud strategies
- building agile operating models
- engineering their cloud solutions
- developing effective cloud control frameworks
- optimising their cloud services.

However large and complex your organisation is, we can accelerate your cloud adoption. Our approach and methodology are designed to drive competitive advantage, enhance business agility and reduce costs – while ensuring you meet your regulatory obligations.

## Client outcomes



**Quicker, safer and more effective Google Cloud adoption**



**Create Risk Office of the future**



**Enable a quicker and more effective transformation journey**



**Cloud adoption process & policy alignment across all departments**

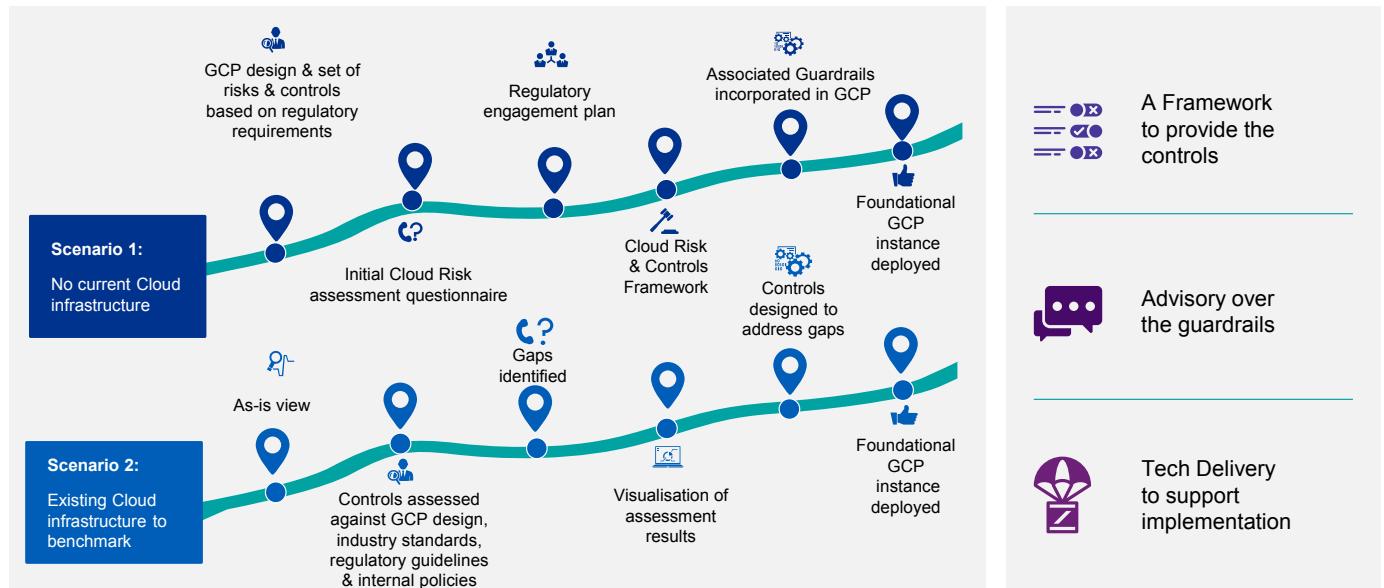


## GCP Risk & Control Foundation



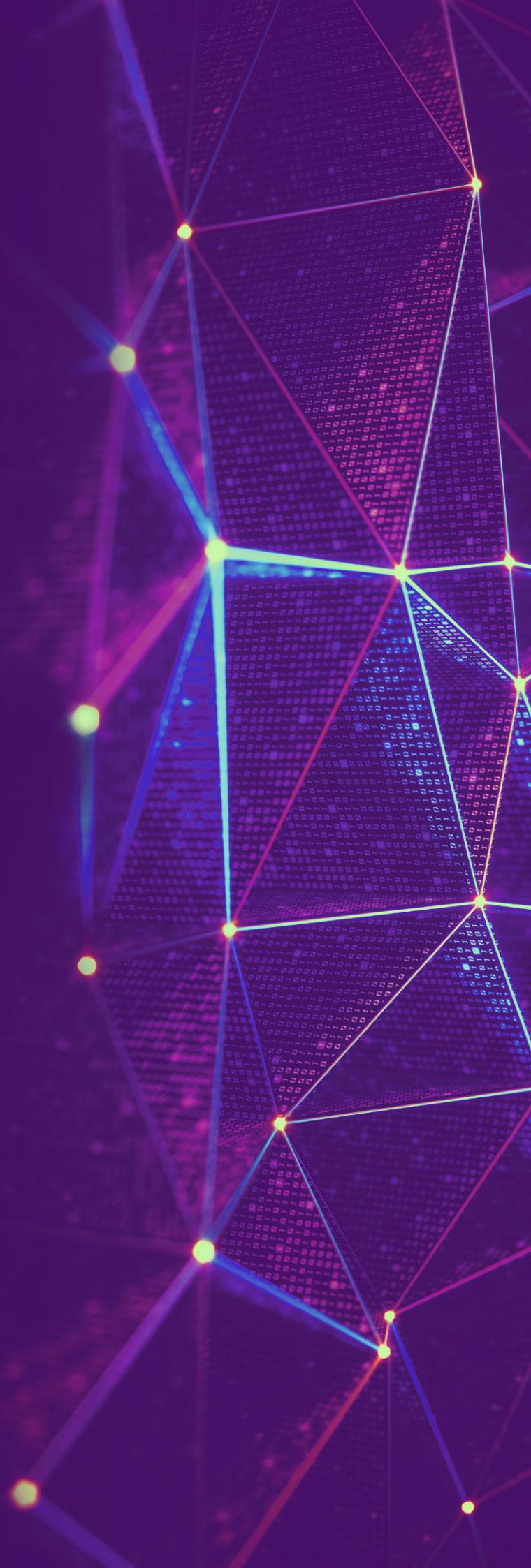
### The Proposition

### Approach



## Our Capabilities





## KPMG and Google

Together, KPMG and Google offer wide-ranging capabilities and experience when it comes to building a secure and customer-centric enterprise. We offer tried-and-tested cloud services, which can be customised to your specific business needs and challenges.

Our alliance combines KPMG's business knowledge, industry expertise and technology capabilities with Google's end-to-end learning platform to accelerate your digital transformation.

That's why KPMG is a trusted adviser for many global organisations when it comes to delivering purpose-built risk and controls management programmes for Google Cloud Platform.

As part of our alliance with Google Cloud, KPMG has received Marketing Development Funding to jointly develop this material.

Premier Partner

Google Cloud

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