

# Individual Landing Zone



## CHALLENGE

Regarding different demands coming up from various geographies of the customers units including customer's group wide compliance and governance policies, a fully automated solution was required, which should guarantee the provisioning of all shared and global services.



## BENEFITS

Telekom Google Cloud experts build a fully automated Landing Zone in an agile manner while respecting all professional as well as cultural aspects. The new solution consist of a secure environment including an established Partner interconnect and general network design, encryption management, a designed IAM and organizational structure, monitoring and logging and guidelines for privacy and data protection allow the customer to start security assessments.



## GOOGLE CLOUD SOLUTIONS

### Compute

- Compute Engine

### Data Analytics & Data

#### Warehouse

- Pub / Sub
- BigQuery

### Monitoring & Logging

- Cloud Logging
- Cloud Monitoring

### Identity Management

- Cloud Identity
- GCDS
- Cloud IAM

### Networking

- Partner Interconnects
- Cloud Router
- VPC
- Cloud NAT
- Cloud DNS

### Infrastructure

#### Automation

- Cloud Build
- Cloud Run
- Cloud Functions
- Source Repository
- Cloud Firestone

### Security

- Cloud KMS
- Secret Manager
- Cloud Resource Manager

# Secure Landing Zone for seamless connectivity in the Telco business



## CHALLENGE

The biggest challenges in the highly regulated Telco business are comprehensive security requirements and standards, such as strict Privacy and Security Assessment (PSA). T-Systems, as an expert for secure and compliant LZ- Blueprint supports customers Business Use Cases, combining the advanced cloud native automation and security services with the best practices and standards of Google.



## BENEFITS

Following the Fabric FAST principle of the Cloud Foundation first end-customers were successfully onboarded to a secure, compliant Google Cloud Landing Zone as Infrastructure as Code (IaC) by focusing on Google Analytics Solutions for BI and data driven businesses with open-source-affinity, enhanced with high automation, especially for Account and Project Creation by using a Self-Service Portal & automated cost distribution into the customers organization.



## GOOGLE CLOUD SOLUTIONS

- Cloud Identity-Aware Proxy
- Identity and Access Management (IAM)
- Cloud Audit Logs
- Cloud Identity

# Revolutionizing a major running streaming platform to GCP



## CHALLENGE

Implementation and integration of a best practice Landing Zone into the customer's existing and productive cloud infrastructure. This requires a detailed analysis of the current environment, including running business-critical services and complex network structures.



## BENEFITS

The results of an analysis upfront gives insight of possible impacts and risks on the customer's productive infrastructure and network structure and ensures further deployment of the Landing Zone in a sandbox environment, in which the customer's infrastructure is replicated. Possible effects can now be investigated to develop strategies for provisioning the best practice Landing Zone in an existing productive environment.



## GOOGLE CLOUD SOLUTIONS

### Data Analytics & Data Warehouse

- Pub / Sub
- Cloud Storage

### Networking

- Hybrid Connectivity (Partner Interconnect)
- VPC
- Cloud DNS
- Network Intelligence Center

### Monitoring & Logging

- Cloud Logging
- Cloud Monitoring
- Cloud Audit Logs

### Infrastructure Automation

- Cloud Functions

### Identity Management

- Cloud Identity
- Cloud IAM

### Security

- Cloud Firewall
- Cloud Resource Manager
- Cloud Security Command Center

# Security with automation-first



## CHALLENGE

The customer faces the challenge to secure all systems and services running on GCP. For monitoring and to prevent vulnerabilities, internal and external resources should be verified continuously.



## BENEFITS

With the new Telekom provided solution new resources are identified and labeled with the correct Asset information to the security scanner automatically. The sources of errors now are reduced, and the solution can be extended with further features on demand.



## GOOGLE CLOUD SOLUTIONS

- Cloud Scheduler
- Cloud Build
- Cloud Source Repositories
- Secret Manager

# Accelerated cost optimization using Google Cloud best practices



## CHALLENGE

How to supercharge the GCP environment and cut costs with immediate effect? T-systems needed to analyze over a hundred service metrics of a variety of running GCP-projects and their service dependencies to identify multiple cost-saving approaches.



## BENEFITS

- more than 25% cost savings per month
- Best practices for cost-saving on Google Cloud (enabling committed use discounts for GKE and Cloud SQL)
- Requirements analysis and rightsizing
- GCP-Environment optimization due to optimized monitoring and removal of non-essential services



## GOOGLE CLOUD SOLUTIONS

- Resource Manager
- IAM
- Cloud SQL
- GKE
- Cloud Logging
- Cloud Monitoring
- Container Registry
- Compute Engine
- Cloud Storage

# Infrastructure modernization with cost optimization



## CHALLENGE

New customized solution, adapted to new requirements of the market should replace the old monolith infrastructure for a streaming platform, which takes a lot of efforts to maintain including an on-prem hosted content management system. The transformed solution should keep operational cost as efficient as possible.



## BENEFITS

The new solution, based on event-driven cloud native API-first structure using Google technologies, brings in scalability and reduces running cost and operating time through automated processes. The customer's platform now becomes a competitive one with increased reliability and improved usability.



## GOOGLE CLOUD SOLUTIONS

- Cloud Engine
- Kubernetes Engine
- Cloud Filestore
- Cloud SQL
- Cloud Storage
- Firebase
- Stackdriver