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Google Cloud Cost Optimisation Assessment

Firestore, Cloud Run, GKE and BigQuery workloads — findings and remediation plan

Client	[redacted] (redacted) — large consumer platform
Document reference	RW-CCA-2026-017
Version / status	1.2 — Final
Report date	17 November 2026
Assessment period	1 August – 31 October 2026 (12-month billing look-back)
Classification	Confidential

Sample report — anonymised. Figures are illustrative. Client name, project IDs, billing account numbers and personal names have been redacted. © 2026 Rearway Technologies.

Document control

Engagement details

Engagement	GCP Cost Optimisation Assessment (fixed scope, 12 weeks incl. remediation support)
Statement of work	SOW-[redacted] dated 22 July 2026
Cloud billing account	[redacted] (1 billing account, 9 projects)
Projects in scope	prod-[redacted], prod-[redacted]-rt, stg-[redacted], dev-[redacted], data-[redacted], analytics-[redacted], shared-net-[redacted], ops-[redacted], sandbox-[redacted]
Regions	asia-south1 (primary), asia-south2, us-central1 (BigQuery US multi-region)
Access granted	roles/billing.viewer, roles/viewer, roles/bigquery.dataViewer, roles/monitoring.viewer (read-only); change rights via client change process only
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Client sponsor	[redacted], VP Engineering

Version history

Version	Date	Author	Changes
0.1	09 Sep 2026	Rearway	Initial baseline and findings draft (Aug billing data)
0.4	06 Oct 2026	Rearway	Added microservice audit, data volume inventory, k6 test plan
1.0	04 Nov 2026	Rearway	Issued for client review; October billing incorporated
1.1	11 Nov 2026	Rearway	Client comments addressed (COST-03 scope reduced; egress estimate revised)
1.2	17 Nov 2026	Rearway	Final. Load-test results (Section 4.6) and status updates added

Distribution

Name	Role	Organisation
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Approval

Role	Name	Signature	Date
Client sponsor	[redacted]		
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Conventions

Item	Convention
Currency	USD, net of credits, excluding taxes. Monthly figures are calendar-month net cost from the billing export.
Savings	Estimated recurring monthly saving at list price against the October 2026 baseline; annualised = monthly × 12.
Severity	**High** > $10,000/month or material risk; **Medium** $3,000–10,000; **Low** < $3,000.
Redaction	Black bars replace client names, project IDs, billing accounts and personal names.

1. Executive summary

Rearway was engaged to review Google Cloud spend for the client's consumer platform after net monthly cost rose from $38,214.66 in November 2025 to $142,418.37 in October 2026 (+272.7%). Over the same period monthly active users increased by 61% and API requests by 74%. Unit cost per 1,000 requests rose from $0.071 to $0.152.

The principal driver is the use of Cloud Firestore as the general-purpose datastore for all 14 production services, including analytical, export and history workloads that perform large document scans. Firestore accounted for $69,621.58 (48.9%) of October spend. Secondary drivers are compute capacity that scaled up during the July–August traffic increase and was not scaled back, Cloud Run minimum instances on low-traffic services, and unattached or idle resources.

1.1 Summary of results

Measure	Value
Baseline net cost, October 2026	$142,418.37 / month
Forecast net cost, March 2027, no action (linear on Aug–Oct trend)	$180,900 / month
Identified recurring savings (7 findings)	$81,735.28 / month
Range (low / high case, see 5.2)	$71,940 – $87,860 / month
Target-state net cost	$60,683.09 / month (−57.4%)
Annualised saving	$980,823.36
Savings already realised at report date (COST-02, COST-04, COST-07)	$21,728.54 / month

1.2 Key findings

- Three of fourteen services (live status, real-time tracking, presence) use Firestore real-time listeners. The remaining eleven do not require Firestore and generate 72% of document reads (COST-01, COST-03).
- 9.1 billion documents (4.2 TB) in five append-mostly collections are queried by date range only and are suitable for BigQuery with date partitioning and clustering (COST-01).
- Idle and orphaned resources totalling $10,912.47/month were confirmed with owners and removed between 14 and 25 September 2026 (COST-02).
- Six Cloud Run services were configured with 2–4 minimum instances despite batch or sporadic traffic; set to zero on 2 October 2026 (COST-04).
- Joint k6 testing with the client platform team showed the production GKE node pool could be reduced from 48 to 24 baseline nodes with no SLO impact (COST-05).

1.3 Recommendation

Proceed with Phase 2 (BigQuery migration of historical collections) as the highest-value item, subject to the dual-write verification approach in Section 6, and adopt the governance controls (budgets, anomaly alerts, labelling) listed in Phase 4.

2. Scope, approach and limitations

2.1 In scope

- All nine projects under billing account [redacted]; services: Firestore (Native mode), Cloud Run, GKE Standard, Compute Engine, Cloud SQL, BigQuery, Cloud Storage, Cloud Load Balancing, Cloud CDN, networking.
- Review of data-access code paths for 14 production microservices (read-only repository access).
- Load and scaling tests in the stg-[redacted] project, executed jointly with the client platform team.

2.2 Out of scope

- Google Workspace, Google Maps Platform and Marketplace third-party charges ($4,118.20/month, excluded from baseline).
- Commercial negotiation, committed use discounts and enterprise agreement terms (noted in 5.3 only).
- Security and reliability review beyond the impact of proposed changes.

2.3 Approach

Week	Activity	Detail
1–2	Access and baseline	Billing export to BigQuery enabled at detailed (resource-level) granularity; 12-month historical data backfilled from standard export. Spend normalised to MAU and requests.
2–4	Discovery	Cloud Asset Inventory snapshot; Recommender API (idle VM, idle disk, idle IP, rightsizing); Firestore usage metrics by collection; Cloud Monitoring utilisation (30-day p50/p95/p99).
4–6	Service audit	Workshops with 6 service owners; review of data access layers; classification of each service by real-time requirement.
6–9	Validation	k6 tests (4 scenarios); BigQuery proof of concept on orders_history (31 days of data, 118M rows).
9–12	Quick wins and reporting	Low-risk changes executed via client change process (CHG-[redacted]); report drafting and review.

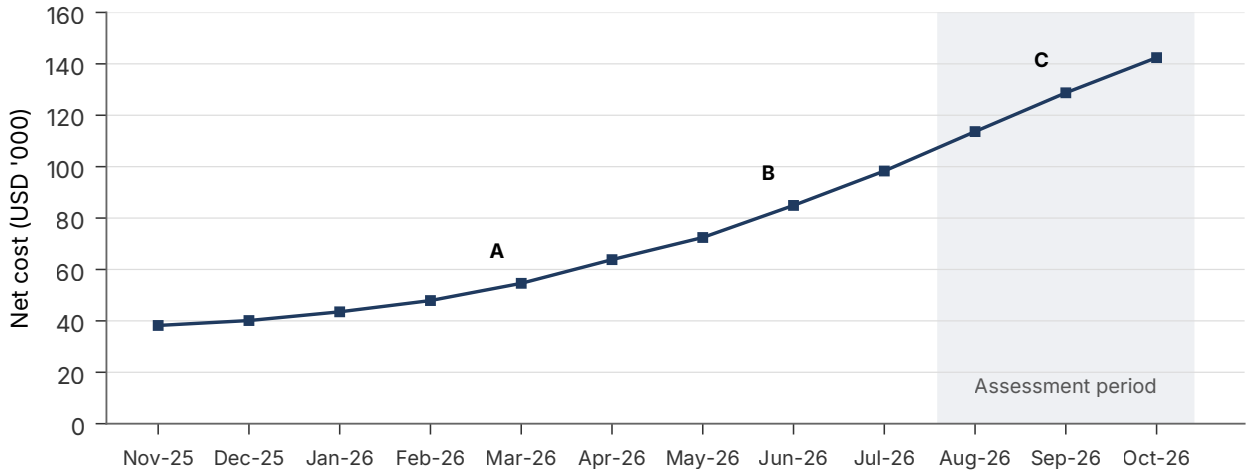
2.4 Limitations

- Savings are estimates based on October 2026 usage at list price. Actual savings depend on traffic growth, implementation scope and pricing changes.
- Resource-level billing data is available only from 1 August 2026; earlier months are analysed at SKU/project level.
- Firestore per-collection read counts were derived from sampled request logs (10% sampling) and scaled; margin of error estimated at ±6%.
- Load tests were performed in a staging environment sized to production; results may differ under production data distribution.
- This report reflects the environment as observed up to 31 October 2026 and status updates to 14 November 2026.

3. Cost baseline

3.1 Twelve-month trend

Figure 1 — Monthly net cost, Nov 2025 – Oct 2026

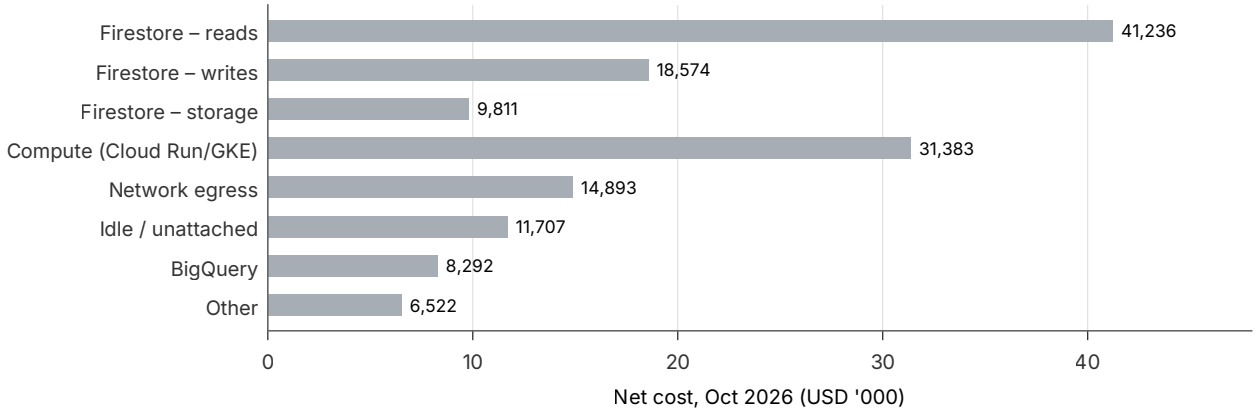


Source: GCP Billing Export (standard + detailed), billing account [redacted]. Net of credits. A: real-time tracking release (Mar-26). B: analytics dashboards switched to Firestore queries (Jun-26). C: export / order-history GA (Sep-26).

Month	Net cost (USD)	MoM change	MAU (M)	Cost / 1k requests
Nov-25	38,214.66	—	11.82	0.071
Feb-26	47,902.77	+10.1%	12.95	0.079
May-26	72,436.92	+13.5%	14.61	0.104
Aug-26	113,641.28	+15.6%	17.40	0.131
Sep-26	128,736.54	+13.3%	18.27	0.142
Oct-26	142,418.37	+10.6%	19.03	0.152

3.2 Cost by service (October 2026)

Figure 2 — Net cost by service category, October 2026



Source: GCP Billing Export, Oct 2026; SKUs grouped by Rearway. "Idle" = resources with <5% utilisation for 30 days or unattached.

Category	Main SKUs / driver	Net cost (USD)	Share
Firestore – document reads	Cloud Firestore Read Ops; ~68.7 bn reads	41,236.12	29.0%
Firestore – writes/deletes	Write Ops, Delete Ops; event logging as documents	18,574.40	13.0%
Firestore – storage	Stored Data; 5.6 TB incl. composite indexes	9,811.06	6.9%

Category	Main SKUs / driver	Net cost (USD)	Share
Compute (Cloud Run / GKE)	vCPU/memory time; n2-standard-8 node pools	31,382.75	22.0%
Network egress	Inter-region, Internet egress (APAC)	14,893.29	10.5%
Idle / unattached	PD, snapshots, idle node pool, Cloud SQL dev	11,706.84	8.2%
BigQuery	Analysis (on-demand), active storage	8,291.53	5.8%
Other	Logging, Monitoring, Load Balancing, KMS	6,522.38	4.6%
Total		**142,418.37**	**100.0%**

4. Detailed findings

4.0 Findings register

ID	Finding	Area	Severity	Est. saving / mo	Owner	Status (14 Nov)
COST-01	Historical and analytical data held in Firestore; full-collection scans for dashboards, exports, history	Firestore / BigQuery	High	$38,614.20	Data Eng.	Approved – Phase 2
COST-02	Idle and orphaned resources (disks, snapshots, node pool, Cloud SQL, IPs, LBs)	Compute / Storage	High	$10,912.47	Platform Eng.	Implemented 25 Sep
COST-03	Entity services (profile, catalogue, notifications, admin) using Firestore without real-time need	Firestore	Medium	$9,386.92	Service owners	Planned – Phase 3
COST-04	Cloud Run minimum instances on batch / low-traffic services	Cloud Run	Medium	$8,217.36	Platform Eng.	Implemented 02 Oct
COST-05	GKE production node pool over-provisioned (~2×); requests/limits not based on usage	GKE	Medium	$6,694.58	Platform Eng.	In progress
COST-06	Cross-region traffic asia-south1 ↔ us-central1; media served without CDN	Network	Medium	$5,311.04	Platform Eng.	Planned – Phase 3
COST-07	Existing BigQuery tables unpartitioned; queries scan full tables	BigQuery	Low	$2,598.71	Data Eng.	Implemented 09 Oct
GOV-01	No budgets, anomaly alerts or mandatory labels; 31% of spend unlabelled	Governance	Medium	—	FinOps / Finance	Planned – Phase 4
Total identified recurring saving				**$81,735.28**		

COST-01 — Historical and analytical data held in Firestore	
Observation	analytics-api, export-worker and order-history issue range queries over events, orders_history and location_pings_archive. These three services generated 1.31 bn reads/day (56% of total) in October.
Evidence	Firestore usage metrics (`firestore.googleapis.com/document/read_count`) by collection; request logs sampled 1–31 Oct; billing SKU "Cloud Firestore Read Ops" $41,236.12.
Impact	$41,327.85/month Firestore cost attributable; BigQuery replacement cost $2,713.65/month. Net $38,614.20/month.
Recommendation	Migrate five collections to BigQuery (Section 4.3); retain Firestore for live collections with TTL policies.

4.1 COST-01/03 Microservice datastore audit

Each production service was classified by whether it relies on Firestore capabilities (real-time listeners, offline sync, document-level low-latency reads at global scale). Read volumes are October 2026 daily averages.

Service	Function	Listeners	Real-time need	Target datastore	Reads / day	Finding
live-status	Live order/session status	Yes	Yes	Firestore (retain)	310.4M	—
tracking-realtime	Real-time location	Yes	Yes	Firestore (retain)	264.8M	—
presence	Online presence	Yes	Yes	Firestore (retain)	87.9M	—
analytics-api		No	No	BigQuery	611.2M	COST-01

Service	Function	Listeners	Real-time need	Target datastore	Reads / day	Finding
	Dashboards, aggregates					
order-history	Past orders list	No	No	BigQuery + Memorystore	401.7M	COST-01
export-worker	CSV/report exports	No	No	BigQuery	296.6M	COST-01
catalog	Product catalogue	No	No	Cloud SQL + CDN	143.1M	COST-03
user-profile	Profile CRUD	No	No	Cloud SQL	95.8M	COST-03
notifications	Notification inbox	No	No	Cloud SQL	70.9M	COST-03
report-generator	Nightly reports	No	No	BigQuery	38.2M	COST-01
event-logger	Clickstream ingest	No	No	BigQuery (Storage Write API)	11.6M	COST-01
admin-portal	Internal admin UI	No	No	Cloud SQL	8.7M	COST-03
audit-trail	Compliance log	No	No	BigQuery	4.3M	COST-01
webhook-retry	Retry queue	No	No	Cloud Tasks	2.4M	COST-03
Total (3 of 14 services require Firestore; 663.1M reads/day = 28.3%)					**2,347.6M**	

4.2 Firestore data volume assessment

Collection	Access pattern	Documents (M)	Stored (GB)	Avg doc (KB)	Disposition
events	Append-only, range by date	5,841.3	2,187.6	0.37	Migrate → BigQuery
orders_history	Closed orders > 7 days	1,418.9	912.4	0.64	Migrate → BigQuery
location_pings_archive	Tracking points > 24 h	1,309.7	638.1	0.49	Migrate → BigQuery
audit_log	Append-only	381.2	271.5	0.71	Migrate → BigQuery
daily_aggregates	Pre-computed metrics	148.6	190.3	1.28	Migrate → BigQuery
Subtotal — migrate		**9,099.7**	**4,199.9**		
users, profiles, catalog, notifications	Mutable entities	459.4	521.7	1.14	Move → Cloud SQL (COST-03)
live_orders, sessions, presence, tracking_live	Real-time, listeners	611.8	878.6	1.44	Retain; TTL 24 h / 7 d
Total		**10,170.9**	**5,600.2**		

Source: Firestore usage metrics and managed export metadata, prod-[redacted], 31 Oct 2026. Stored size includes index entries.

4.3 COST-01 Analytical and historical data to BigQuery

Tables are partitioned by event date and clustered on the most selective filter columns. `require_partition_filter` prevents unbounded scans. Aggregation is performed in BigQuery, reducing data transferred to services.

```
CREATE TABLE `data-[redacted].analytics.orders_history` (
  order_id STRING NOT NULL, user_id STRING NOT NULL, region STRING, status STRING,
  total_usd NUMERIC, created_at TIMESTAMP NOT NULL, closed_at TIMESTAMP )
PARTITION BY DATE(created_at)
CLUSTER BY region, user_id, status
OPTIONS ( partition_expiration_days = 1095, require_partition_filter = TRUE );

SELECT order_id, status, total_usd, created_at
FROM `data-[redacted].analytics.orders_history`
WHERE DATE(created_at) BETWEEN DATE_SUB(CURRENT_DATE(), INTERVAL 30 DAY) AND CURRENT_DATE()
  AND user_id = @user_id;
```

Workload	Firestore cost / mo	Bytes / query, unpartitioned	Bytes / query, part.+clustered	BigQuery cost / mo
order-history (via 15-min Memorystore cache)	14,512.37	912.4 GB	0.41 MB	641.18
analytics-api dashboards (4,812 queries/day)	15,418.66	2,187.6 GB	6.07 GB	1,114.03
export-worker (2,106 jobs/day)	11,396.82	638.1 GB	3.82 GB	958.44
Total	**41,327.85**			**2,713.65**

Source: BigQuery INFORMATION_SCHEMA.JOBS from PoC (12–30 Oct 2026). On-demand $6.25/TiB; BigQuery cost includes long-term/active storage for 4.2 TB.

4.4 COST-02 Idle and orphaned resources

Resource	Project	Resource ID	Evidence (30 d)	Action / date	USD / mo
GKE node pool, 12 × n2-standard-8	stg-[redacted]	np-batch-[redacted]	CPU p95 3.6%	Deleted; autoscale 0–3 · 18 Sep	3,418.56
Unattached PD (38 disks, 14.2 TB)	various	pd-[redacted]…	No attach > 60 d	Snapshot + delete · 14 Sep	2,137.92
Snapshots > 180 days (1,142)	prod-[redacted]	—	No restore in 12 mo	Lifecycle policy · 16 Sep	1,862.40
Cloud SQL dev instances (5)	dev-[redacted]	sql-dev-[redacted]	0 connections 45 d	Stopped · 20 Sep	1,781.33
Compute Engine VMs (7)	ops-[redacted]	vm-[redacted]	CPU p95 1.8%	Stopped · 22 Sep	803.17
Load balancers, no backends (4)	shared-net-[redacted]	lb-[redacted]	0 requests	Deleted · 25 Sep	614.89
Static external IPs, unassigned (40)	various	—	Recommender	Released · 25 Sep	294.20
Total removed (remaining idle $794.37: reserved capacity to Feb 2027)					**10,912.47**

4.5 COST-04 Cloud Run scale-to-zero

Minimum instances set to 0 with startup CPU boost enabled (`gcloud run services update SERVICE --min-instances=0 --cpu-boost`). Cold-start p95 measured over 7 days after change.

Service	Traffic profile	Min inst. before	After	Cold start p95	USD / mo
report-generator	Nightly batch 01:00–02:30 IST	4	0	782 ms	2,104.88
export-worker	On demand, 2.1k jobs/day	3	0	847 ms	1,846.21
admin-portal	Office hours, ~140 users	2	0	618 ms	1,297.64
notification-digest	Hourly Cloud Scheduler	2	0	536 ms	1,052.90
image-resize	Bursty uploads	3	0	891 ms	1,013.47
webhook-retry	Sparse, < 1 req/min	2	0	412 ms	902.26
Total					**8,217.36**

4.6 COST-05 Load and scaling tests (k6)

Executed 19–30 October 2026 in stg-[redacted] with the client platform team. Baseline: October production peak of 18,420 req/s. SLO: p95 < 250 ms, error rate < 0.1% at up to 2× peak.

Scenario	Peak req/s	Duration	p95 (48 nodes)	p95 (24 nodes + HPA)	Errors	Result
T1 Peak replay 1×	18,420	40 min	142 ms	138 ms	0.02%	Pass

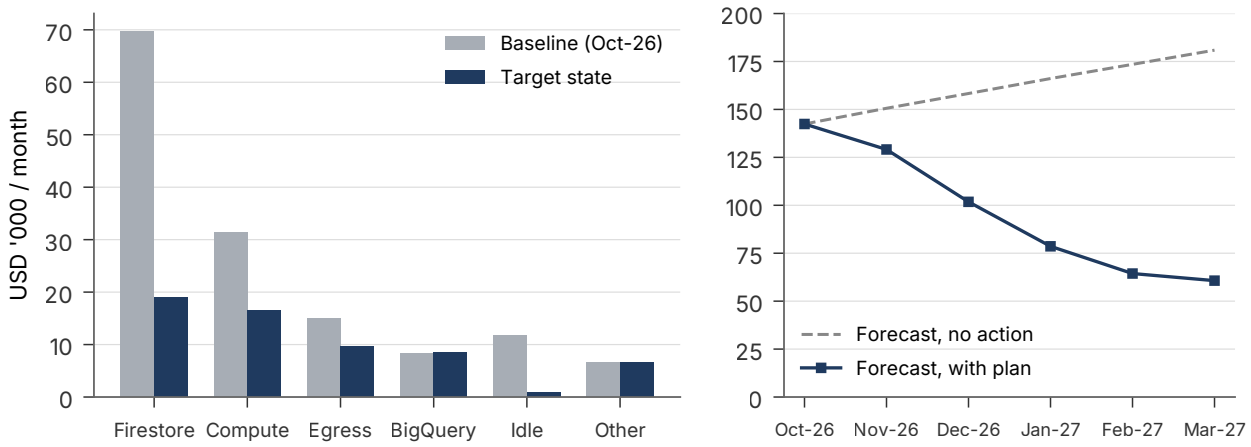
Scenario	Peak req/s	Duration	p95 (48 nodes)	p95 (24 nodes + HPA)	Errors	Result
T2 Spike 2× (60 s ramp)	36,840	15 min	188 ms	196 ms	0.04%	Pass (scaled to 38)
T3 Soak 1×	18,420	8 h	139 ms	141 ms	0.01%	Pass
T4 Stress 3×	55,260	10 min	311 ms	298 ms	0.19%	Info only (scaled to 52)
T5 Listeners, 250k clients	—	30 min	410 ms	395 ms	0.00%	Pass

Requests/limits were revised on 22 deployments to observed p99 + 30%. Baseline node count reduced to 24 with cluster autoscaler max 60. Production rollout started 11 November (12 of 24 node reductions completed at report date).

5. Savings summary and projection

5.1 Baseline vs target state

Figure 3 — Monthly net cost by category (left) and six-month forecast (right)



Source: GCP Billing Export, Oct 2026; Rearway forecast model v3. "No action" uses linear Aug–Oct trend.

Category	Baseline Oct-26	Target state	Change	Findings
Firestore	69,621.58	18,906.81	−50,714.77	COST-01, 03
Compute	31,382.75	16,470.81	−14,911.94	COST-04, 05
Network egress	14,893.29	9,582.25	−5,311.04	COST-06
BigQuery	8,291.53	8,406.47	+114.94	COST-01 (+2,713.65), 07 (−2,598.71)
Idle / unattached	11,706.84	794.37	−10,912.47	COST-02
Other	6,522.38	6,522.38	0.00	—
Total (USD / month)	**142,418.37**	**60,683.09**	**−81,735.28**	**−57.4%**

5.2 Sensitivity

Case	Assumption	Saving / mo
Low	Memorystore hit rate 85%; COST-06 at 60%; traffic +5%	71,940
Central	As modelled	81,735
High	Hit rate 95%; full CDN offload	87,860

5.3 Not included

Committed use discounts on the residual compute base (est. a further $1,650–$2,800/month at 1-year CUD) were excluded pending the post-COST-05 baseline.

6. Implementation roadmap

Phase	Weeks	Scope	Exit criteria	Saving / mo
0 Quick wins	1–2	COST-02, COST-04, COST-07	Changes closed in CAB	21,728.54
1 Right-size	3–5	k6 tests; COST-05; budgets at 80/100%	SLO met 14 days	6,694.58
2 Data migration	4–11	COST-01: schemas, backfill, dual-write 14 days, reconciliation, cut-over per collection	Row count and checksum match 100%	38,614.20
3 Re-platform	9–14	COST-03 Cloud SQL; COST-06 CDN, region co-location	p95 within 10% of baseline	14,697.96
4 Governance	15–16	GOV-01: labels policy, anomaly alerts, monthly FinOps review	> 95% spend labelled	—
Total				**81,735.28**

7. Risks and rollback

#	Risk	L / I	Mitigation	Rollback
R1	Data loss or drift during COST-01 migration	L / H	Dual writes 14 days; daily count and checksum reconciliation	Feature flag returns reads to Firestore; source retained 30 days
R2	Cold-start latency (COST-04)	M / L	CPU boost; applied only to batch/internal services	Set min-instances=1 (< 1 min)
R3	Capacity shortfall after COST-05	L / H	Validated to 3× peak; autoscaler max 60	Terraform revert of node pool size
R4	BigQuery cost overrun	L / M	require_partition_filter; per-user query quotas; alert at $350/day	Custom quota cap
R5	Cloud SQL write contention (COST-03)	M / M	Load test before cut-over; pooling; read replicas	Firestore adapter retained one release
R6	Removal of a required resource (COST-02)	L / M	Owner sign-off; snapshots kept 30 days	Restore from snapshot

Appendix A. Data sources and tools

Source	Use	Period
Cloud Billing export to BigQuery (standard + detailed usage cost)	Baseline, SKU and resource attribution	Nov 2025 – Oct 2026
Cloud Monitoring	CPU/memory utilisation, request rates, latency, instance counts	Aug – Oct 2026
Firestore usage metrics, Key Visualizer	Reads/writes/deletes per collection, document counts, storage	Aug – Oct 2026
Cloud Asset Inventory, Recommender API	Idle/orphaned resources, rightsizing	Snapshot 05 Sep 2026
BigQuery INFORMATION_SCHEMA.JOBS	Bytes processed per query	Aug – Oct 2026
Cloud Logging (10% sample)	Service-to-collection access mapping	1 – 31 Oct 2026

Tools: BigQuery, Looker Studio, gcloud CLI 49x, Terraform 1.9, k6 0.5x (Grafana k6), Python 3.12 (pandas) analysis notebooks.

Pricing: GCP list prices, asia-south1, October 2026. Firestore $0.06 per 100k reads, $0.18 per 100k writes; BigQuery on-demand $6.25/TiB. No contractual discounts applied.

Appendix B. Billing export extract

Top 12 SKUs by net cost, October 2026 (query on `gcp_billing_export_v1_[redacted]`).

```
SELECT service.description AS service, sku.description AS sku,
       ROUND(SUM(cost) + SUM(IFNULL((SELECT SUM(c.amount) FROM UNNEST(credits) c), 0)), 2) AS net_cost
FROM `billing-[redacted].billing.gcp_billing_export_v1_[redacted]`
WHERE invoice.month = '202610'
GROUP BY 1, 2 ORDER BY net_cost DESC LIMIT 12;
```

service	sku	net_cost
Cloud Firestore	Cloud Firestore Read Ops (asia-south1)	41,236.12
Cloud Firestore	Cloud Firestore Entity Writes (asia-south1)	16,902.71
Kubernetes Engine	N2 Instance Core running in Mumbai	12,417.36
Cloud Firestore	Cloud Firestore Storage (asia-south1)	9,811.06
Cloud Run	CPU Allocation Time (tier 1)	8,644.90
Networking	Network Inter Region Data Transfer Out from Mumbai to Americas	7,926.45
BigQuery	Analysis (US multi-region)	6,948.12
Kubernetes Engine	N2 Instance Ram running in Mumbai	5,321.58
Networking	Network Internet Data Transfer Out from Mumbai to APAC	5,104.77
Compute Engine	Storage PD Capacity in Mumbai	3,688.04
Cloud Run	Memory Allocation Time (tier 1)	3,212.43
Cloud Firestore	Cloud Firestore Entity Deletes (asia-south1)	1,671.69

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