DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Google Cloud Advanced Training

Design secure, highly available and cost-efficient Google Cloud architectures, govern a landing zone and plan migrations.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **5 days · Days 1-5**	SELF-PACED VIDEO **1-year LMS access**
BATCH SIZE **Max 10 learners**	NEXT BATCHES **1st of every month · weekends: first Saturday**	CERTIFICATE **Verifiable certificate of completion**

Foundation	Essential	Intermediate	Advanced
1 day · Included	2 days · Included	3 days · Included	5 days · This curriculum

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	48 topics · Foundation to Advanced
Hands-on labs	4 labs
Formats and fees	Live, 1:1, self-paced, corporate
Trainer and reviews	Rajesh Kumar
Enrolment	Batches, payment, contacts

WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

Course page: www.devopsschool.com/courses/googlecloud/google-cloud-advance-training.html
Talk to us: WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

What you will achieve

By the end of the Google Cloud course path, you will be able to:

1

Build on Google Cloud

Deploy and run applications on Compute Engine, GKE, Cloud Run and managed databases.

2

Automate and operate workloads

Use Terraform, Cloud Build, Cloud Deploy and Cloud Monitoring and Logging to ship and observe services.

3

Design secure architectures

Apply IAM, network security, encryption, high availability and cost controls in a governed landing zone.

WHAT THE ADVANCED LEVEL ADDS

Architecture, security, reliability, cost and migration

Hands-on: Design a production landing zone. Build a governed folder and project structure with organization policies and VPC Service Controls, then deploy a highly available app with a tested failover.

WHO SHOULD ATTEND

- Experienced Google Cloud practitioners responsible for quality, security and scale.
- Senior engineers, architects and leads who design and troubleshoot Google Cloud solutions.
- Teams making Google Cloud an organisation-wide standard.

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Automate Google Cloud with Terraform and CI/CD, observe and troubleshoot workloads, and connect networks and event-driven services.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

AGENDA · FOUNDATION TO ADVANCED

Google Cloud Advanced Training agenda

48 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

DAY 1 — Foundation: Cloud concepts, projects, IAM and first workloads

Included from Foundation

1. Introducing Google Cloud: global infrastructure, regions and zones, and IaaS, PaaS and serverless compared
2. Resource hierarchy: organization, folders, projects, labels and billing accounts
3. Interacting with Google Cloud: Cloud Console, Cloud Shell, the gcloud CLI, client libraries and APIs
4. IAM basics: principals, basic versus predefined roles, policies and service accounts
5. Billing and cost basics: budgets and alerts, the pricing calculator, free tier and usage discounts
6. Compute Engine: machine families, images, persistent disks, SSH access and creating a first VM
7. VPC networking basics: global VPCs, subnets, firewall rules and internal and external IP addresses
8. Cloud Storage: buckets, storage classes, object lifecycle rules and gcloud storage commands
9. Choosing a compute option: Compute Engine, GKE, Cloud Run, App Engine and Cloud Run functions
10. App Engine: deploying an application to the standard and flexible environments
11. Cloud Run first deploy: gcloud run deploy from source code or a container image
12. Data and AI at a glance: BigQuery, Cloud SQL and Vertex AI and where each fits

DAY 2 — Essential: Scaling compute, databases, GKE and serverless

Included from Essential

13. Managed instance groups: autoscaling, autohealing, regional MIGs and rolling updates
14. Cloud Load Balancing: global external Application Load Balancer, Network Load Balancer and health checks
15. Storage options compared: Cloud Storage, Cloud SQL, AlloyDB, Spanner, Bigtable and Firestore
16. Cloud SQL: MySQL and PostgreSQL instances, high availability, backups, private IP and the Auth Proxy
17. Firestore and Datastore mode: document model, indexes and storing application data
18. Google Kubernetes Engine: Autopilot versus Standard, node pools, kubectl and deploying a workload
19. Artifact Registry and Cloud Build: building container images and pushing them to repositories
20. Cloud Run in depth: revisions, traffic splitting, concurrency, minimum instances and service identity
21. Cloud DNS and Cloud CDN: managed zones, record sets and caching static content at the edge
22. IAM in practice: custom roles, IAM conditions and avoiding service account keys
23. Secret Manager: storing secrets and reading them from Cloud Run, GKE and Compute Engine
24. BigQuery basics: datasets and tables, loading data into BigQuery and querying it with SQL

DAY 3 — Intermediate: Automation, observability, networking and event-driven services

Included from Intermediate

25. Infrastructure as code: Terraform with the Google provider, remote state in Cloud Storage and Infrastructure Manager
26. CI/CD: Cloud Build triggers, Cloud Deploy delivery pipelines, approvals and rollbacks
27. Cloud Monitoring: metrics, dashboards, uptime checks and alerting policies
28. Cloud Logging: Log Router, sinks, log-based metrics and Log Analytics
29. Application troubleshooting: Cloud Trace, Cloud Profiler and Error Reporting

30. Hybrid connectivity: HA VPN, Cloud Interconnect, Cloud Router and BGP
31. Private networking: Shared VPC, VPC Network Peering, Private Service Connect and Private Google Access
32. Edge and egress security: Cloud NAT, hierarchical firewall policies and Cloud Armor WAF rules
33. Pub/Sub messaging: topics, push and pull subscriptions, ordering and dead-letter topics
34. Event-driven services: Eventarc triggers, Cloud Scheduler and Workflows
35. Data pipelines: Dataflow (Apache Beam), Dataproc and Cloud Composer overview
36. Troubleshooting: VPC Flow Logs, Connectivity Tests, Policy Troubleshooter and quota errors

DAYS 4-5 **Advanced: Architecture, security, reliability, cost and migration** — New at this level

37. Architecture Framework: designing for reliability, security, cost and performance on Google Cloud
38. High availability and DR: regional services, multi-region storage, Cloud SQL replicas and RTO and RPO targets
39. Security foundations: Organization Policy Service, VPC Service Controls and Security Command Center
40. Encryption and keys: Cloud KMS, customer-managed encryption keys, Cloud HSM and Confidential VMs
41. Workload Identity Federation: keyless access from GitHub Actions, AWS and on-premises workloads
42. GKE at scale: GKE Enterprise fleets, multi-cluster Gateway, Binary Authorization and Config Sync
43. BigQuery advanced: partitioning, clustering, editions and slots, and BigQuery ML
44. Vertex AI: training, model endpoints and calling Gemini models through the Vertex AI API
45. Cost optimisation and FinOps: committed use discounts, Spot VMs, Recommender and billing export to BigQuery
46. Migration: Migrate to Virtual Machines, Database Migration Service and Storage Transfer Service
47. Landing zone and governance: environment folders, IAM groups, audit logs and policy as code
48. Capstone: a secure, highly available multi-tier application with IaC, CI/CD, monitoring and cost controls

PRACTICE

Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION **Deploy first workloads on Google Cloud**
Create a project with a budget alert, launch a Compute Engine VM, host files in Cloud Storage and deploy a container to Cloud Run.

ESSENTIAL **Build a scalable three-tier application**
Deploy a web tier on a managed instance group behind a load balancer, an API on Cloud Run or GKE and data in Cloud SQL with secrets in Secret Manager.

INTERMEDIATE **Automate and observe a cloud service**
Provision a service with Terraform, deploy it through Cloud Build and Cloud Deploy, wire Pub/Sub events and add dashboards and alerts.

ADVANCED **Design a production landing zone**
Build a governed folder and project structure with organization policies and VPC Service Controls, then deploy a highly available app with a tested failover.

HOW YOU CAN LEARN

Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

FORMAT	DURATION	WHAT YOU GET	FEE
Live & interactive (online)	Max 8-10 hours	Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month.	**INR 34,999**
1:1 live training (online)	Max 8-10 hours, one-to-one	The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace.	**INR 99,999**
Self-paced video	1-year LMS access	All four Google Cloud levels, plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate (day-wise)	5 days for this level	A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative).	**Quote on request**

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

20 years in industry	**200+** corporate trainings
10,000+ engineers mentored	**70+** organisations coached

REVIEWS

What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR GOOGLE CLOUD TRAINING

Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/googlecloud/

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