

Google Distributed Cloud software only

Product description

Google Distributed Cloud (GDC) software only extends Google Cloud's infrastructure and services into your data center. It enables you to modernize your applications either on premises or in cloud by providing a consistent Kubernetes distro based on Google Kubernetes Engine (GKE), with the same tools for cluster management, lifecycle, governance, and operations.



Key benefits of GDC software only



Seamless Google Cloud integration with your premises with GKE-based Kubernetes



Deploy on existing infrastructure - bare-metal hardware, VMs, or VMware vSphere



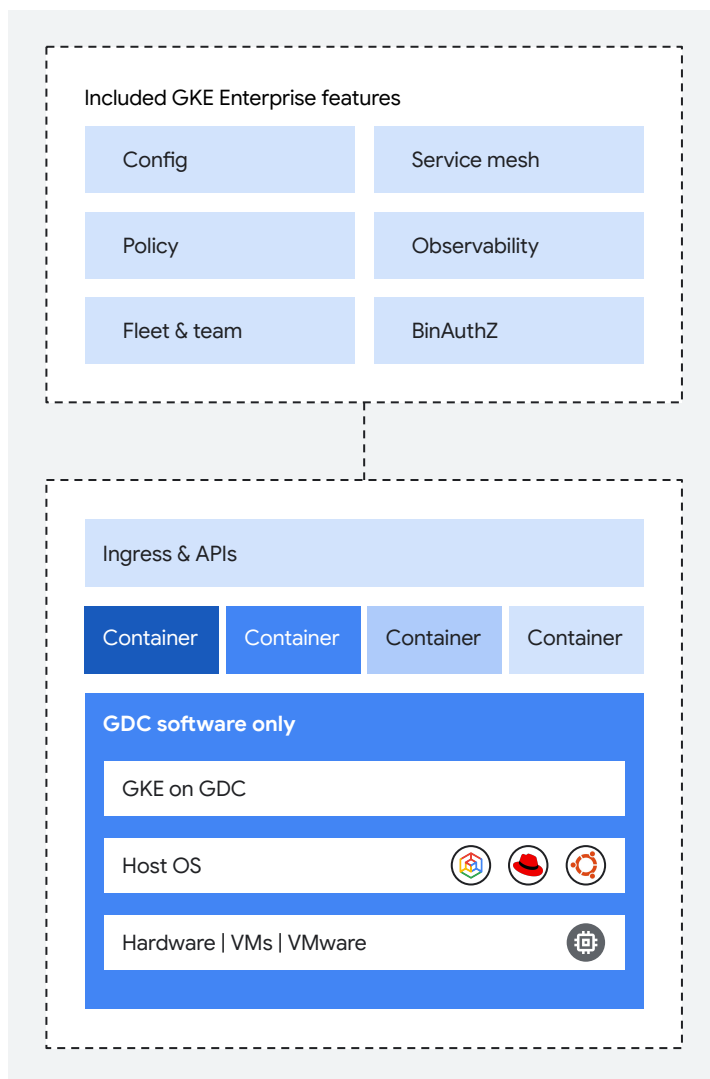
Integrated management tooling for GitOps-based config management, policy management, and service mesh



Advanced lifecycle management with reliable upgrades and flexible deployment options



Centralized global fleet management from a cloud-based console with flexibility for local management of your app and data



GDC software only is ideal for customers who:

- Want a consistent developer and operational experience across on-premises and cloud
- Want to leverage own hardware infrastructure investments
- Require a software-only solution in order to maintain full control over their environment due to regulatory requirements or internal strategic choices

GDC software only Capabilities

GDC software only has two deployment options: Bare metal and VMware.

Category	GDC Software only for Bare metal	GDC Software Only for vSphere
Compute	- Customer provided physical or virtual infrastructure - Compute spec: Scalability, Machine	- Customer provided VMware vSphere environment - Compute spec: Scalability, vSphere
OS	Customer provided and pre deployed OS: RHEL, Ubuntu	Google provided OS: Ubuntu, COS
Network	- Bundled L7 ingress - Load balancer - Metal LB, BGP LB, Manual LB - Advanced networking: Egress NAT, SRIOV, Flat IP, Multi-net Multus, Multicast	- Bundled L7 ingress - Load balancer - Metal LB, Manual LB - Advanced networking: Egress NAT, Multi-net Multus
Storage	Customer provided storage (HW/SW): Validated with Portworx, Netapp, Rakuten Symcloud, Hitachi	- Customer provided storage (HW/SW): Validated with Portworx, Netapp - vSphere storage integration: Datastores, vSAN, and attached storage
Availability	- Control plane high availability across 3 nodes - Failure recovery with etcd backup / restore - Survive up to 7 days of disconnection from GCP	
Management	- Cloud based cluster lifecycle management (CRUD): Terraform, gcloud, UI - Multi-cluster management under the same admin cluster - Standalone user cluster - Capable of fully local CLI management	

VMware Management	VMware vSphere APIs enable lifecycle management, scaling, and node repair.	
Kubernetes	Secure and stable Kubernetes; validated and aligned with Google Kubernetes Engine (GKE)	
GKE Enterprise Features	Cloud Service Mesh, Config Sync, Policy Controller, Integrated cloud monitoring metrics and logs	
Security	• Binary authorization • Comprehensive cluster credential rotations • Secret encryption at-rest • Continuous CVE patching: CIS Benchmarks: Kubernetes	• Binary authorization • Comprehensive cluster credential rotations • Secret encryption at-rest • Continuous CVE patching: CIS Benchmarks: Kubernetes & OS
Identity	LDAP, SAML, OIDC	
Services	AlloyDB Omni, Apigee Hybrid, Contact Center AI	

Product Documentation



[Google Distributed Cloud \(software only\) for bare metal documentation](#)



[Google Distributed Cloud \(software only\) for VMware documentation](#)