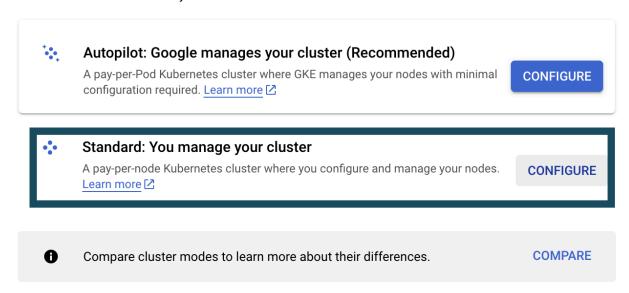
Go to GKE > Clusters > Create Cluster

Select "Standard mode" of cluster creation

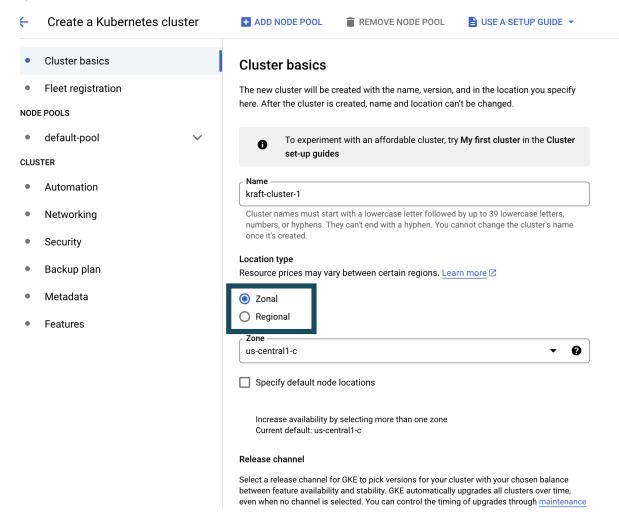
1)

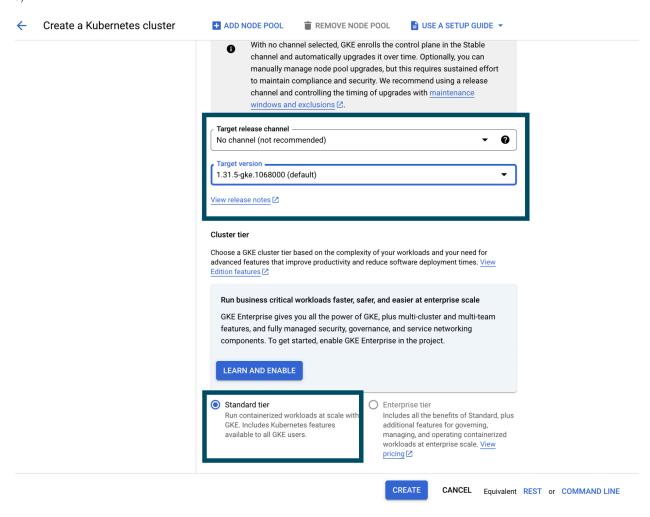
Create cluster

Select the cluster mode that you want to use.

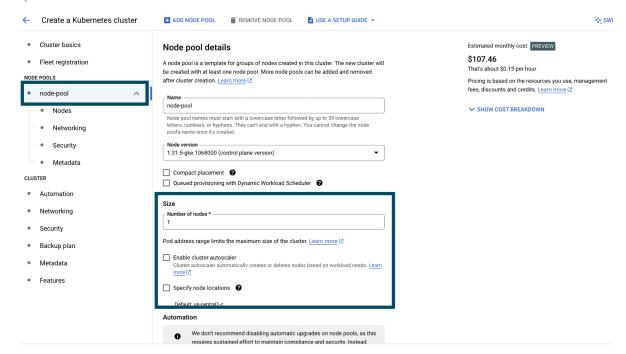


CANCEL

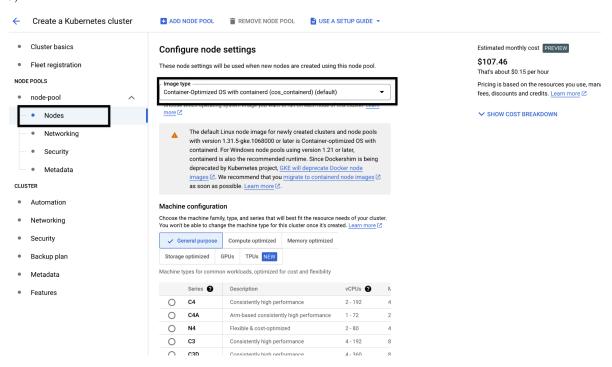








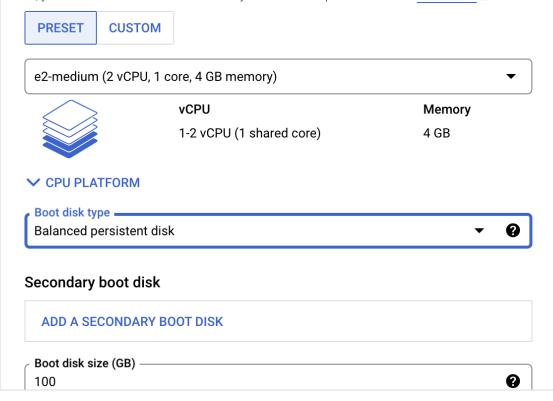


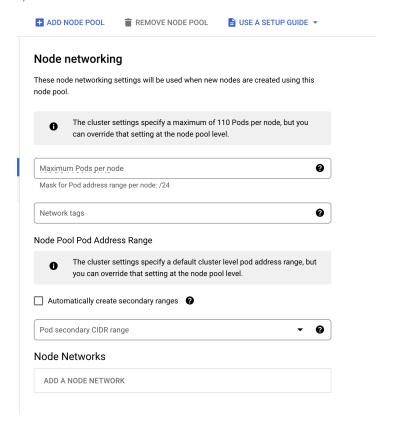


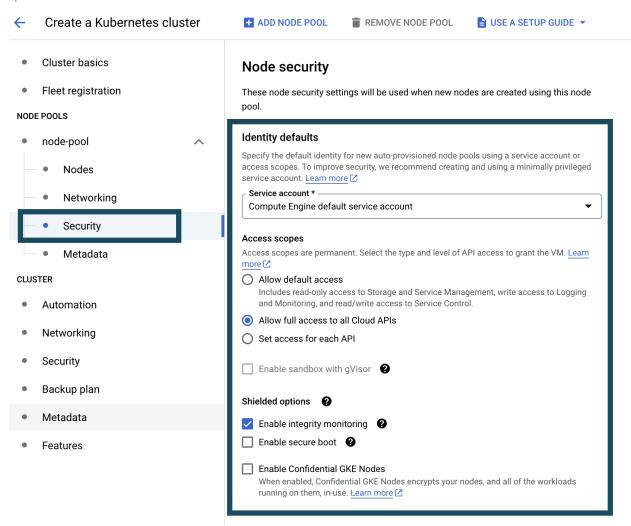
0	C3	Consistently high performance	4 - 192	8
0	C3D	Consistently high performance	4 - 360	8
•	E2	Low cost, day-to-day computing	0.25 - 32	1
0	N2	Balanced price & performance	2 - 128	2
0	N2D	Balanced price & performance	2 - 224	2
0	T2A	Scale-out workloads	1 - 48	4
0	T2D	Scale-out workloads	1 - 60	4
0	N1	Balanced price & performance	0.5 - 96	1

Machine type

Choose a machine type with preset amounts of vCPUs and memory that suit most workloads. Or, you can create a custom machine for your workload's particular needs. Learn more ☑







Αυ	itomation
	cluster-level criteria for automatic maintenance, autoscaling, and auto-provisioning. the node pool for automation like auto-scaling, auto-upgrades, and repair.
Ма	intenance Policy
	Enable Maintenance Window ?
Con	figure maintenance exclusions
of th	figure maintenance exclusions to specify when you don't want automated version upgrades ne control plane and nodes to occur. This can help prevent disruption to your workloads ng specific times, such as during peak hours or outside of working hours. Learn more
+	- ADD MAINTENANCE EXCLUSION
Not	tifications
	Enable notifications Receive important Pub/Sub notifications from Kubernetes Engine about your cluster. $\underline{\text{More}} \ \!$
Aut	toscaling
	Enable vertical Pod autoscaling Enabling vertical Pod autoscaling on a cluster lets you configure a vertical Pod autoscaler object for the cluster's workloads. Vertical Pod autoscaling automatically analyzes and adjusts your containers' CPU requests and memory requests based on the actual resource use of your workloads. Learn more
	Enable node auto-provisioning Node auto-provisioning manages the cluster's node pools by creating and deleting node pools as needed based on workload needs. Without node auto-provisioning, Kubernetes Engine will only start new nodes when you create new node pools. Learn more ✓
Αι	uto-provisioning network tags
- Δι	utoscaling profile
	alanced (default)

By enabling Dataplane V2, Kubernetes network policy is also enabled.
Enable Dataplane V2 metrics ? To be able to view metrics in Cloud Monitoring, enable Google Cloud Managed Service for Prometheus ☑ for this cluster
☐ Enable Dataplane V2 observability ?
☐ Enable Calico Kubernetes Network Policy
☐ Enable FQDN Network Policy
☐ Disable VPC firewall rule auto-creation for LoadBalancer Services
☐ Enable Inter-Node Transparent Encryption
Enable Intranode visibility Reveals your intranode traffic to Google's networking fabric. To get logs, you need to enable VPC flow logs in the selected subnetwork.
☐ Enable HTTP load balancing
☐ Enable subsetting for L4 internal load balancers
☐ Enable multi-networking ?
Enable Gateway API
DNS provider
Kube-dns
Cloud DNS ②
☐ Enable NodeLocal DNSCache

Security

For features not in beta, defaults are set according to the Security hardening guide \(\mathcal{L} \). Security includes cluster authentication handled by IAM and Google-managed encryption by default. Enable Binary Authorization Enable Secret Manager ? Enable Shielded GKE Nodes Enable Confidential GKE Nodes When enabled, Confidential GKE Nodes encrypts your nodes, and all of the workloads running on them, in-use. Learn more 🖸 Encrypt secrets at the application layer Enable Workload Identity ? Enable Google Groups for RBAC ? Security posture ? Workload vulnerability scanning ? Legacy security options Enable legacy authorization Issue a client certificate To maximize security, do not select. You cannot change this setting once the cluster is created. Clients use this base64-encoded public certificate to authenticate to the cluster endpoint. Certificates don't rotate automatically and are difficult to revoke. You can still

authenticate to the cluster using Identity and Access Management (IAM) or with basic

authentication, which is not recommended. Learn more .

Backup plan

Create a backup plan to enable native recovery from disasters and cyber attacks, workload rollback, and cluster-to-cluster migration. Costs 2 are based on the size of the data and the number of pods you protect through backups. Backup for GKE is a separate service from GKE with independent certifications and accrediation. Learn more 2

Enable Backup for GKE

Back up and restore GKE workloads. Costs are based on the size of the data and the number of pods you protect through backups. Supports clusters on Kubernetes versions 1.24.2-gke.1900 or later. Backup for GKE is a separate service from GKE with independent certifications and accrediation. Learn more ☑

Create backup plan

Additional backup plan can be created from Backup for GKE page.

Features

Op	erations
	Enable Logging Collect logs emitted by your applications and GKE infrastructure. See pricing information . PLEARN MORE INFRASTRUCTURE INFRASTR
✓	Enable Cloud Monitoring Monitoring collects metrics emitted by your applications and by GKE infrastructure. See pricing information . Learn more
	omponents — ystem ▼
	Enable Managed Service for Prometheus Deploy managed collectors for Prometheus metrics within this cluster. These collectors must be configured using PodMonitoring resources. Supports clusters on Kubernetes version 1.21.4-gke.300 or later. Learn more 🖸
_	
Se	rvice mesh
Ena	rvice mesh abling Service Mesh will register this cluster to a Fleet, and enable Service Mesh for clusters that are added to that Fleet. Ensure that your cluster meets the uirements for Service Mesh. View requirements
Ena	abling Service Mesh will register this cluster to a Fleet, and enable Service Mesh for clusters that are added to that Fleet. Ensure that your cluster meets the
Ena any req	abling Service Mesh will register this cluster to a Fleet, and enable Service Mesh for a clusters that are added to that Fleet. Ensure that your cluster meets the uirements for Service Mesh. View requirements Enable Service Mesh Service Mesh provides managed, observable, and secure communication across your services so developers can focus on applications without sacrificing resilience or worrying

Changes needed

You have selected:

Disable Managed Service for Prometheus

Cluster changes:

Cloud Monitoring components that depend on this feature will be deselected

CANCEL

MAKE CHANGES

15)

Features

Operations
□ Enable Logging Collect logs emitted by your applications and GKE infrastructure. See pricing information . Learn more C
✓ Enable Cloud Monitoring Monitoring collects metrics emitted by your applications and by GKE infrastructure. See pricing information. ☑ Learn more ☑
Components ────────────────────────────────────
□ Enable Managed Service for Prometheus Deploy managed collectors for Prometheus metrics within this cluster. These collectors must be configured using PodMonitoring resources. Supports clusters on Kubernetes version 1.21.4-gke.300 or later. Learn more 🗹

Service mesh

Enabling Service Mesh will register this cluster to a Fleet, and enable Service Mesh for any clusters that are added to that Fleet. Ensure that your cluster meets the requirements for Service Mesh. View requirements [2]

☐ Enable Service Mesh

Service Mesh provides managed, observable, and secure communication across your services so developers can focus on applications without sacrificing resilience or worrying about monitoring, networking, or security. This setting is permanent. Learn more

Al and Machine Learning

☐ Enable Ray Operator

Ray is a distributed compute framework for Al and Python. This feature enables Kubernetes APIs for managing and scaling Ray clusters and jobs. You control and are responsible for managing ray.io custom resources in your cluster. This feature is not compatible with GKE clusters that already have another Ray operator installed. Supports clusters on Kubernetes

Once done with all above configuration setup, click on create cluster. It'll take around 10 minutes for the cluster to spin up.

Once done, final output should look like this \Rightarrow

