

Calcule (compute)

- Compute Engine
- Google Kubernetes Engine

Compute Engine

IP Pricing :

External IP address pricing (us-central1)

(Subject to change)

Type	Price/Hour (USD)
Static IP address (assigned but unused)	\$0.010
Static and ephemeral IP addresses in use on standard VM instances	\$0.004
Static and ephemeral IP addresses in use on preemptible VM instances	\$0.002
Static and ephemeral IP addresses attached to forwarding rules	No charge

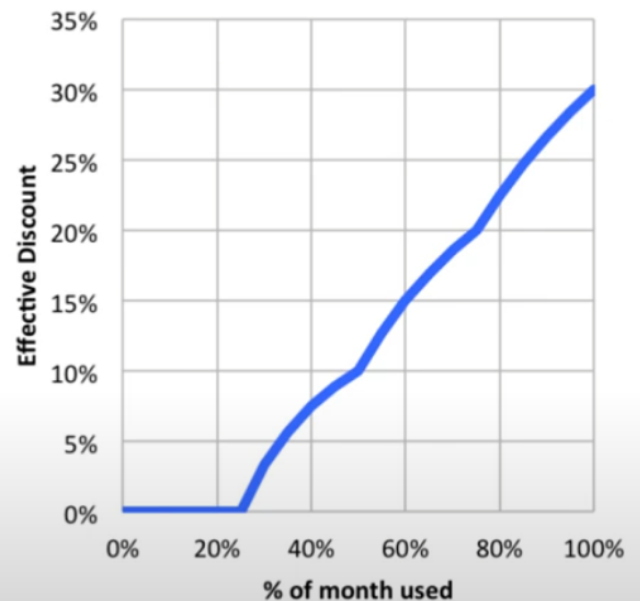
Network Pricing :

Traffic type	Price (USD)
Ingress	No charge
Egress to the same zone (internal IP address)	No charge
Egress to Google products (YouTube, Maps, Drive)	No charge
Egress to a different GCP service (within same region; exceptions)	No charge
Egress between zones in the same region (per GB)	\$0.01
Egress to the same zone (external IP address, per GB)	\$0.01
Egress between regions within the US and Canada (per GB)	\$0.01
Egress between regions, not including traffic between US regions	Varies by region

Réductions liées à l'utilisation de vos VM :

Sustained use discounts

Usage Level (% of month)	% at which incremental is charged
0% - 25%	100% of base rate
25% - 50%	80% of base rate
50% - 75%	60% of base rate
75% - 100%	40% of base rate



Up to 30% net discount for instances that run the entire month

Conseils :

Filtre Saisissez le nom ou la valeur de la propriété									
☐	État	Nom ↑	Zone	Recommandations	Utilisé par	Adresse IP interne	Adresse IP externe	Connecter	
☐	✓	prod-	europa-west1-b	Augmenter perf.		10.132.0.5 (nic0)	35 (nic0)	SSH	⋮
☐	✓	prod	europa-west1-b			10.132.0.2 (nic0)	104 (nic0)	SSH	⋮

Tips :

Quand on crée une machine virtuelle, on peut spécifier trois options de politique de disponibilités :

- **Préemptibles VM**
 - If the server will be subject to termination by Google in exchange for a lower cost.

- **Automatique Restart**

- Automatic restart indicates if the server stops due to a hardware failure, maintenance event, or some other non-user-controlled event.

- **On host Maintance**

- Host maintenance indicates if the virtual server should be migrated to another physical server when a maintenance event occurs.

Sole tenancy :

Pour ne pas partager un hyperviseur dans google cloud avec d'autre clients :

<https://cloud.google.com/compute/docs/nodes/sole-tenant-nodes?hl=fr>

Commandes :

```
gcloud compute instances list -format json
```

Google Kubernetes Engine

Créer un cluster :

```
gcloud container clusters create ch07-cluster-1 --num-nodes=4
```

Ajouter un service :

```
kubectl run
```

Détails techniques :

Kubernetes Réserve le **CPU** :

6 % du premier Coeur

1 % du second coeur

0.5 % du troisième et du quatrième coeur

0.25 % tous les coeurs supplémentaires