Google Cloud Platform project
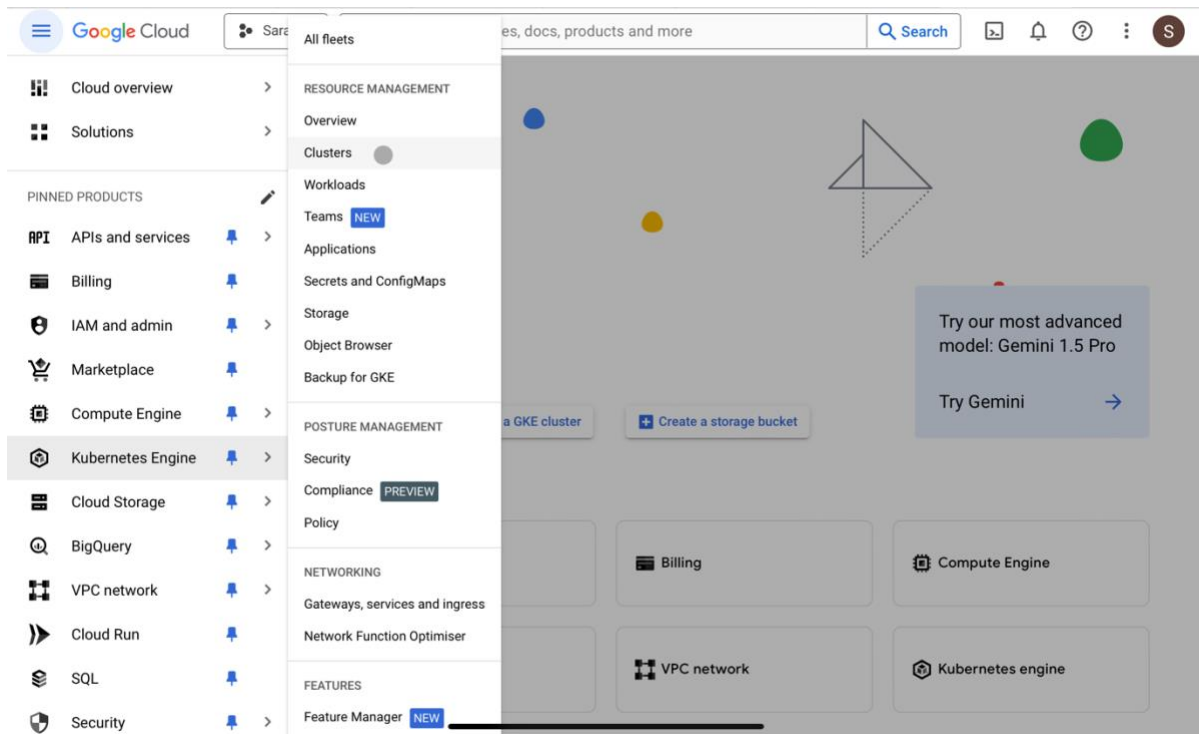
Google Kubernetes Engine (GKE)

By Sarah Alwated
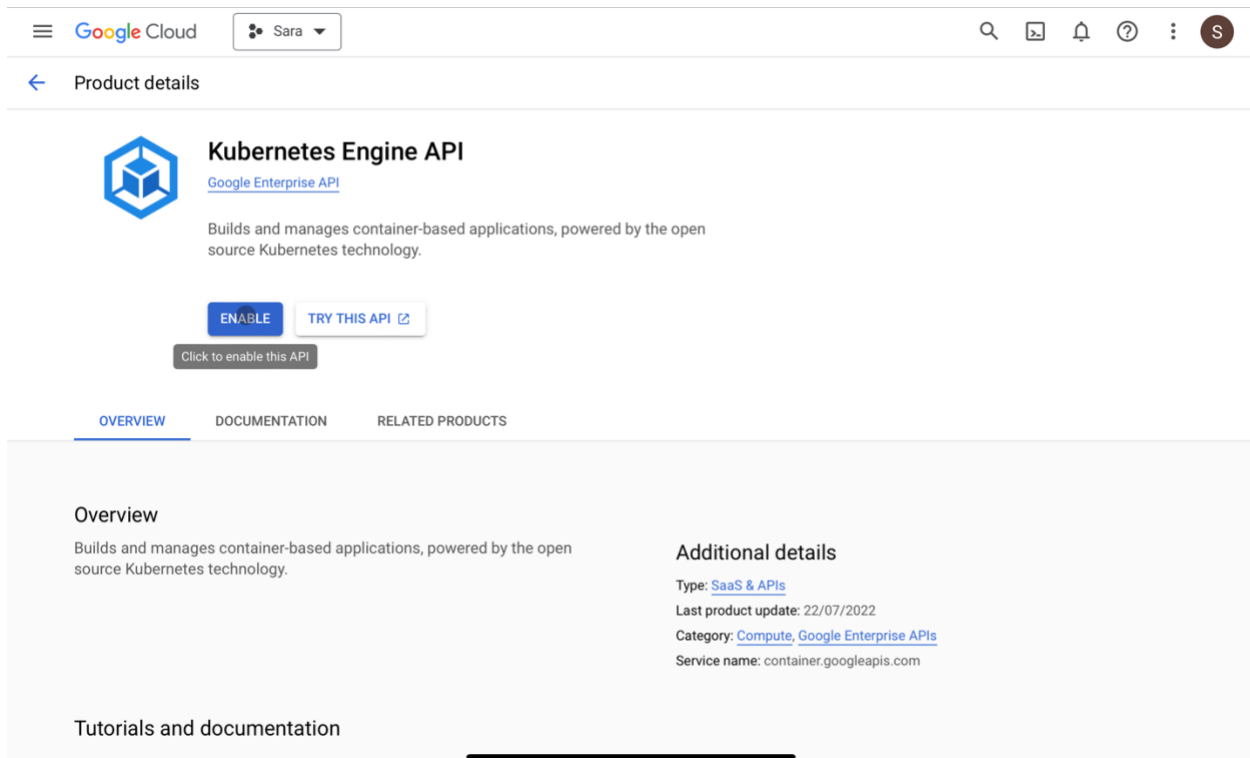
Guidelines:

- First make your own GCP account
- Second after you make your account go to Kubernetes Engine

Go to Kubernetes Engine – Clusters

Enable

Create

Choose name and region

✔ **Cluster basics**
Set up basics for your cluster

● **Fleet registration**
Manage multiple clusters together

● **Networking**
Define applications communication in the cluster

● **Advanced settings**
Review additional options

● **Review and create**
Review all settings and create your cluster

Fleet registration [NEW]

A fleet lets you logically group and normalise Kubernetes clusters, helping you uplevel management from individual clusters to groups of clusters. To use multi-cluster capabilities and apply consistent policies across your systems, register your cluster to a fleet. Learn about fleets ↗

☐ Register cluster to the fleet ❓

> ⓘ   Your cluster will be hosted in project **'sara-422404'**. To register it to a fleet in another project, skip this step and use the CLI.
>
> Learn how to register a GKE cluster ↗

[PREVIOUS]   [NEXT: NETWORKING]   ⟳ RESET SETTINGS

[CREATE]   CANCEL   Equivalent REST or COMMAND LINE

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○ Private cluster
Choose a private cluster to assign internal IP addresses to pods and nodes. This isolates the cluster's workloads from public networks. You cannot change this setting after the cluster is created.

☐ Override control plane's default private endpoint subnet
GKE provisions a private endpoint in the cluster's subnet by default. To select your own subnet where the control plane's private endpoint will be provisioned, override the control plane's default. Learn more ↗

Cluster default pod address range
/17   ❓

Example: 192.168.0.0/16

Service address range   ❓

Example: 192.168.0.0/16

☐ Enable Control plane global access ❓

☐ Enable control plane authorised networks ❓

Auto-provisioning network tags   ❓

☐ Enable Dataplane V2 observability ❓

[PREVIOUS]   [NEXT: ADVANCED SETTINGS]   ⟳ RESET SETTINGS

[CREATE]   CANCEL   Equivalent REST or COMMAND LINE

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Advanced settings

Release channel
Regular channel (recommended) ▾ ❓

All versions are validated and production ready, but they don't have enough data to guarantee stability. We recommend setting up multiple environments to qualify pre-production before production. For known issues and workarounds, review release notes ↗.

Automation ⌄

Service Mesh ⌄

Security ⌄

Operations ⌄

Metadata ⌄

PREVIOUS   NEXT: REVIEW AND CREATE   ↻RESET SETTINGS

CREATE   CANCEL   Equivalent REST or COMMAND LINE

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✔ Cluster default pod address range: /17 🔒
✔ Control plane authorised networks: Disabled

⚙ Advanced settings

✔ **Release channel**: Regular channel
✔ **Maintenance window**: Disabled
✔ **Service Mesh**: Disabled 🔒
✔ **Binary Authorisation**: Disabled
✔ **Google Groups for RBAC**: Disabled
✔ **Secret encryption at the application layer**: Disabled
✔ **Configuration auditing**: Enabled
✔ **Workload vulnerability scanning**: Basic
✔ **Boot disk encryption**: Google-managed
✔ **Service account**: Default 🔒
✔ **Access scopes**: Default 🔒
✔ **Logging**: Enabled
✔ **Cloud Monitoring**: Enabled

PREVIOUS   CREATE CLUSTER

CREATE   CANCEL   Equivalent REST or COMMAND LINE

It's Done