Api gateways ?

API Gateway enables you to provide secure access to your backend services through a well-defined REST API that is consistent across all of your services, regardless of the service implementation. Clients consume your REST APIS to implement standalone apps for a mobile device or tablet, through apps running in a browser, or through any other type of app that can make a request to an HTTP endpoint

Pricing :

API Gateway pricing

## Per call pricing

API Gateway charges by its calls to [Service Control](https://cloud.google.com/service-control/overview). Each API call processed by API Gateway is reported as a tracked operation by the Service Control API and is listed as a line item for Service Control on your bill.

The price for API Gateway depends on the number of calls to your API, as described in the following table:

| API calls per month per billing account | Cost per million API calls |
| --- | --- |
| 0-2M | $0.00 |
| 2M-1B | $3.00 |
| 1B+ | $1.50 |

Pre-requirements :

create a Google Cloud project

billing is enabled for your project.

Service account with api gateway admin role

Required service to enable :

gcloud services enable apigateway.googleapis.com

gcloud services enable servicemanagement.googleapis.com

gcloud services enable servicecontrol.googleapis.com

Deploying the backend endpoint:

API Gateway sits in front of a deployed backend service and handles all incoming requests. API Gateway routes incoming calls to a Cloud Function /cloud run backend

Creation of api

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**gcloud api-gateway apis create workspacecontroller-api --project=workspace-controller-dev**

Creation of api config

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gcloud api-gateway api-configs create [uoftworkspacecontroller-apiconfig](https://console.cloud.google.com/api-gateway/api/uoftworkspacecontroller-api/servicename/uoftworkspacecontroller-api-2y1ntftj4e4cw.apigateway.workspace-controller-dev.cloud.goog/configs/uoftworkspacecontroller-apiconfig/rollout/uoftworkspacecontroller-apiconfig-0db0kznhyvwtn/details?authuser=0&cloudshell=false&orgonly=true&project=workspace-controller-dev&supportedpurview=project)-u --api=uoftworkspacecontroller-api --openapi-spec=WorkspaceControllerAPI.yaml --project=workspace-controller-dev --backend-auth-service-account=[first-apigatewaycreation@workspace-controller-dev.iam.gserviceaccount.com](mailto:first-apigatewaycreation@workspace-controller-dev.iam.gserviceaccount.com)

Apigateways

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gcloud api-gateway gateways create workspacecontroller-apigateway --api=**workspacecontroller-api**  --api-config=workspacecontroller -apiconfig --location=us-west3 --project=workspace-controller-dev

All the api gateways are authenticated with bearer tokens