

# KENZAN

**Digital Consulting + Software Engineering**

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## **Zero-to-Canary with Spinnaker Part II: Get Started with Spinnaker Pipelines**

Transforming businesses that use technology  
into technology organizations that do business.



# Agenda

**You've run the bootstrapper...**  
**What did you get?**

Google Cloud Project

Kubernetes

Spinnaker

# Google Cloud Platform

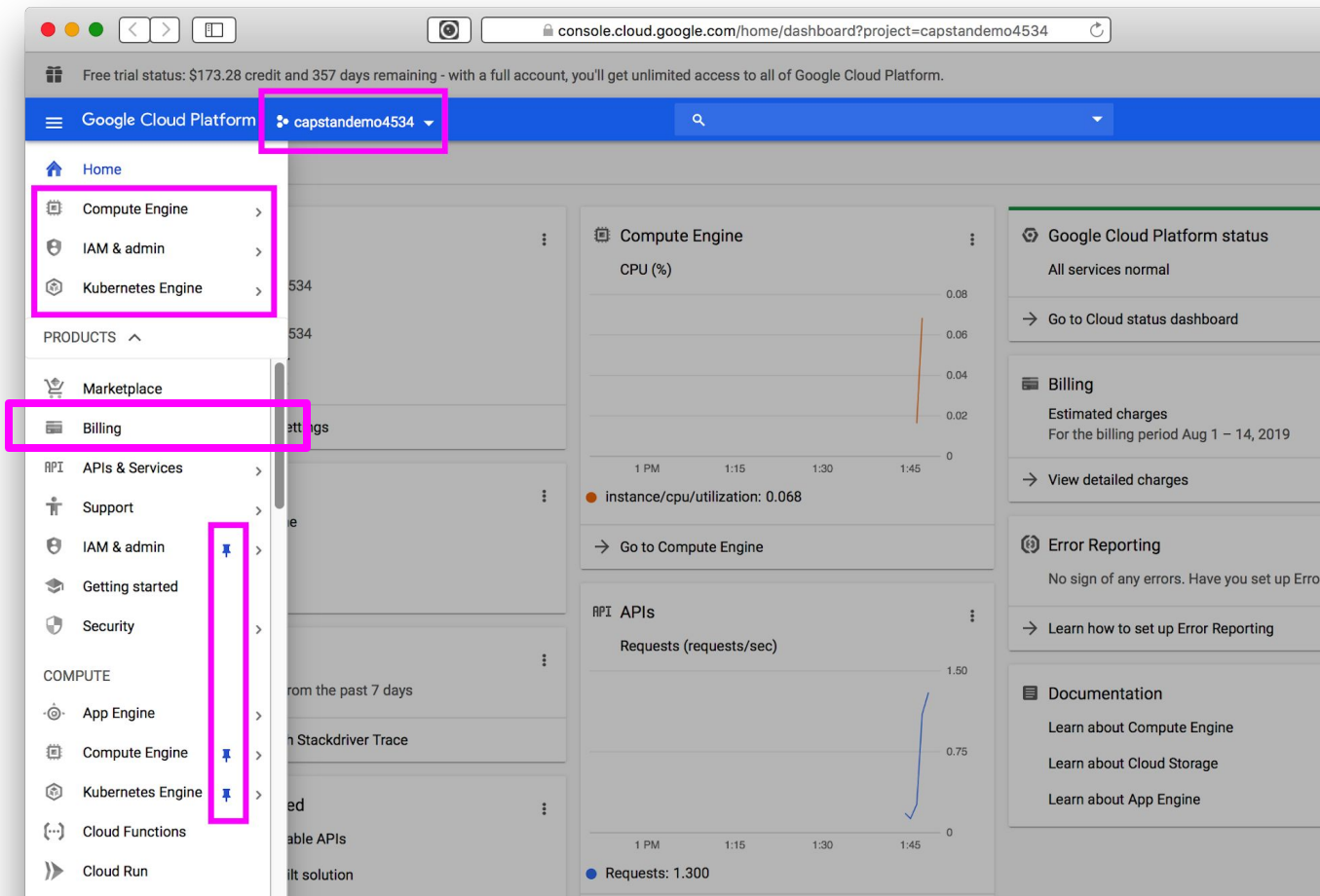
## Pin Common Console Items

Goto

<https://console.cloud.google.com/home/dashboard>

Select your Capstan Demo project from the top Navigation

Open the **3 bar menu** and **pin** Compute Engine, IAM & admin and the Kubernetes Engine, Billing options



# Google Cloud Platform

## Review IAM & admin

Goto

<https://console.cloud.google.com/iam-admin/iam>

Make sure the Capstan Demo project is selected in the top Navigation

Review the [Members and Roles](#) provisioned by Capstan

The screenshot shows the Google Cloud Platform console interface. The top navigation bar displays the project name 'capstandemo4534' in a blue box. The left sidebar shows the 'IAM & admin' section selected. The main content area is titled 'Permissions for project "capstandemo4534"' and shows a list of members and their roles. The 'View By' tabs are set to 'MEMBERS'. A table lists the members, including service accounts and human users, with their respective roles.

Type	Member ↑	Name	Role
<input type="checkbox"/>	500014191918-compute@developer.gserviceaccount.com	Compute Engine default service account	Editor
<input type="checkbox"/>	500014191918@cloudservices.gserviceaccount.com	Google APIs Service Agent	Editor
<input type="checkbox"/>	capstandemo3128@gmail.com	M Settro	Owner
<input type="checkbox"/>	gcp-spinnaker@capstandemo4534.iam.gserviceaccount.com	gcp-spinnaker	Compute Viewer Monitoring Metric Writer Monitoring Viewer Pub/Sub Subscriber Storage Admin
<input type="checkbox"/>	halyard-tunnel-tools@capstandemo4534.iam.gserviceaccount.com	halyard-tunnel-tools	Owner
<input type="checkbox"/>	service-500014191918@compute-system.iam.gserviceaccount.com	Compute Engine Service Agent	Compute Engine Service A
<input type="checkbox"/>	service-500014191918@container-engine-robot.iam.gserviceaccount.com	Kubernetes Engine Service Agent	Kubernetes Engine Service
<input type="checkbox"/>	service-500014191918@containerregistry.iam.gserviceaccount.com	Google Container Registry Service Agent	Editor
<input type="checkbox"/>	terraform-admin@capstandemo4534.iam.gserviceaccount.com	terraform-admin	Service Account User Owner

# Google Cloud Platform

## Review Kubernetes Cluster, Workloads & Services (GKE)

Goto

<https://console.cloud.google.com/kubernetes/discovery>

Make sure to Capstan Demo project is selected in the top Navigation

Review the [Services and Ingress](#) to see the new **cicd-runtime** services associated to Spinnaker and the initial pipeline exercise, and more...

**Note:** You can use **kubectl** in the Console or from the *halyard-tunnel* instance.

Free trial status: \$117.49 credit and 354 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform.

Google Cloud Platform capstandemo4534

Kubernetes Engine Services & Ingress REFRESH CREATE INGRESS DELETE

Kubernetes services Brokered services BETA Ingresses

Services are sets of Pods with a network endpoint that can be used for discovery and load balancing. Ingresses are collections of rules for routing external HTTP(S) traffic to Services.

Is system object : False Filter resources

Name ^	Status	Type	Endpoints	Pods	Namespace	Cluster
helloagain-dev	Ok More	Load balancer	34.68.7.118:80	0 / 0	apps	cdci-runtime
helloagain-prod	Ok More	Load balancer	104.154.35.91:80	4 / 4	apps	cdci-runtime
helloagain-uat	Ok More	Load balancer	104.197.158.149:80	2 / 2	apps	cdci-runtime
spin-clouddriver	Ok More	Cluster IP	10.15.242.25	1 / 1	spinnaker	cdci-runtime
spin-clouddriver-bootstrap	Ok More	Cluster IP	10.15.248.51	1 / 1	spinnaker	cdci-runtime
spin-deck	Ok More	Cluster IP	10.15.250.32	1 / 1	spinnaker	cdci-runtime
spin-echo	Ok More	Cluster IP	10.15.249.76	1 / 1	spinnaker	cdci-runtime
spin-front50	Ok More	Cluster IP	10.15.250.140	1 / 1	spinnaker	cdci-runtime
spin-gate	Ok More	Cluster IP	10.15.254.189	1 / 1	spinnaker	cdci-runtime
spin-iac	Ok More	Cluster IP	10.15.246.2	1 / 1	spinnaker	cdci-runtime

# Google Cloud Platform

## Need Logs?

Goto

<https://console.cloud.google.com/kubernetes/workload>

Make sure the Capstan Demo project is selected in the top Navigation

Click the [Workload](#) > [Stackdriver logs](#) > [Container logs](#) or [Audit logs](#)

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Google Cloud Platform **capstandemo5095**

Stackdriver Logging

Logs Viewer

Logs-based metrics

Exports

Logs ingestion

CREATE METRIC CREATE EXPORT

```
1 resource.type="container"
2 resource.labels.cluster_name="cdci-runtime"
3 resource.labels.namespace_id="spinnaker"
4 resource.labels.project_id="capstandemo5095"
5 resource.labels.zone="us-central1-a"
6 resource.labels.container_name="spin-echo" OR "spin-monitoring-daemon"
7 resource.labels.pod_id="spin-echo-v000-"
```

Submit Filter No limit Jump to now

Showing logs from all time (EDT)

Time	Severity	Message
2019-08-17 15:42:39.706 EDT	INFO	[pool-1-thread-1] c.n.s.ecno.services.Front50Ser
2019-08-17 15:42:39.730 EDT	INFO	[pool-1-thread-1] c.n.s.echo.services.Front50Ser
2019-08-17 15:42:42.226 EDT	ERROR	Caught <HttpError 429 when requesting https://monitoring.googleapis.
2019-08-17 15:42:49.249 EDT	INFO	[pool-6-thread-1] .s.e.s.a.p.i.PipelineConfigsPo
2019-08-17 15:42:49.249 EDT	INFO	[pool-6-thread-1] .s.e.s.a.p.i.PipelineConfigsPo
2019-08-17 15:42:49.731 EDT	INFO	[pool-1-thread-1] c.n.s.echo.services.Front50Ser
2019-08-17 15:42:49.748 EDT	INFO	[pool-1-thread-1] c.n.s.echo.services.Front50Ser
2019-08-17 15:42:59.748 EDT	INFO	[pool-1-thread-1] c.n.s.echo.services.Front50Ser
2019-08-17 15:42:59.792 EDT	INFO	[pool-1-thread-1] c.n.s.echo.services.Front50Ser
2019-08-17 15:43:09.793 EDT	INFO	[pool-1-thread-1] c.n.s.echo.services.Front50Ser
2019-08-17 15:43:09.829 EDT	INFO	[pool-1-thread-1] c.n.s.echo.services.Front50Ser
2019-08-17 15:43:12.318 EDT	ERROR	Caught <HttpError 429 when requesting https://monitoring.googleapis.
2019-08-17 15:43:19.249 EDT	INFO	[pool-6-thread-1] .s.e.s.a.p.i.PipelineConfigsPo
2019-08-17 15:43:19.249 EDT	INFO	[pool-6-thread-1] .s.e.s.a.p.i.PipelineConfigsPo
2019-08-17 15:43:19.830 EDT	INFO	[pool-1-thread-1] c.n.s.echo.services.Front50Ser
2019-08-17 15:43:19.866 EDT	INFO	[pool-1-thread-1] c.n.s.echo.services.Front50Ser
2019-08-17 15:43:29.867 EDT	INFO	[pool-1-thread-1] c.n.s.echo.services.Front50Ser

# Spinnaker Deck

## Review Initial Pipelines

Run your initial pipelines

The image displays three overlapping screenshots of the Spinnaker Deck web interface, illustrating the process of reviewing and running initial pipelines.

**Top Screenshot:** Shows the main dashboard for the 'helloagain' application. The 'PIPELINES' tab is selected. The interface lists two pipelines: 'uat-deploy' and 'prod-seed', both managed by 'CDCI-RUNTIME-GKEGCR'. Both pipelines show 'No executions found matching the selected filters.' The interface includes a search bar, navigation tabs (PIPELINES, INFRASTRUCTURE, TASKS), and buttons for 'Create', 'Configure', and 'Start'.

**Middle Screenshot:** Shows the 'Recently viewed' section for the 'helloagain' application. It lists 'APPLICATIONS (1)' and shows the 'helloagain' application.

**Bottom Screenshot:** Shows a detailed view of the 'uat-deploy' pipeline. It displays a 'MANUAL START' execution by '[anonymous]' 14 minutes ago, with a status of 'SUCCEEDED' and a duration of 01:23. The interface includes a search bar, navigation tabs (PIPELINES, INFRASTRUCTURE, TASKS, CONFIG), and buttons for 'Create', 'Configure', and 'Start Manual Execution'.

## Next Step

Orchestration w/ Spinnaker