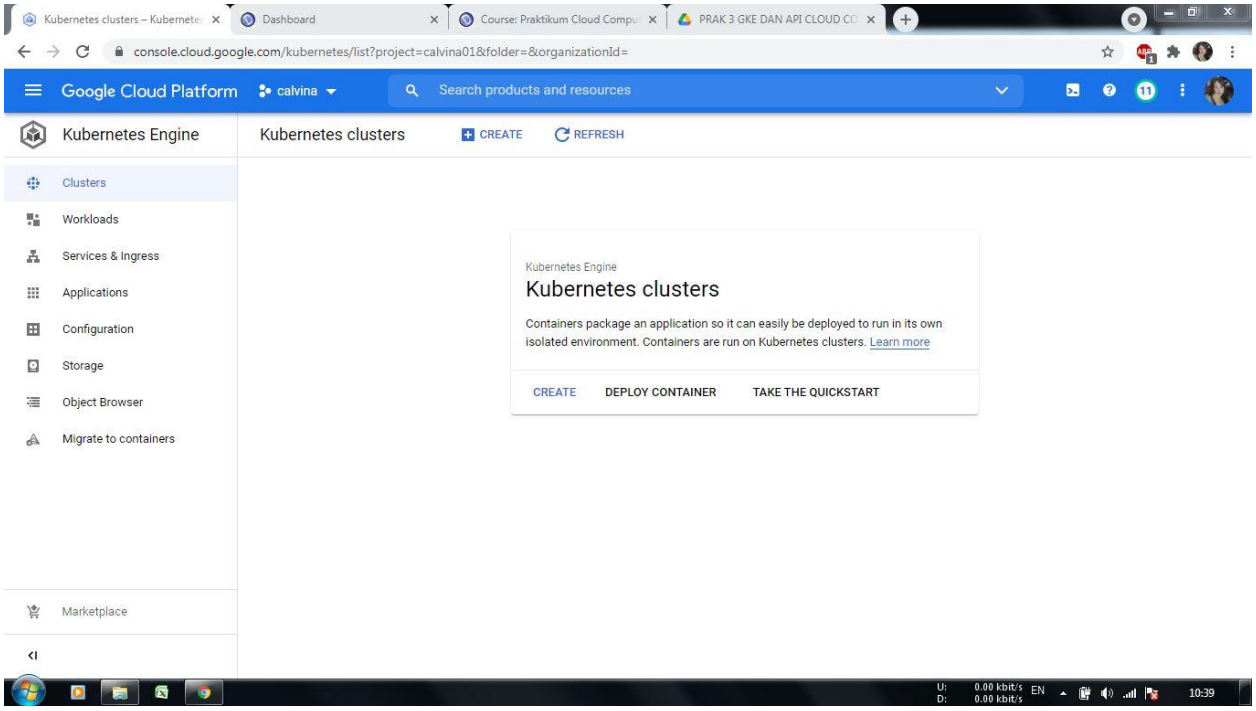
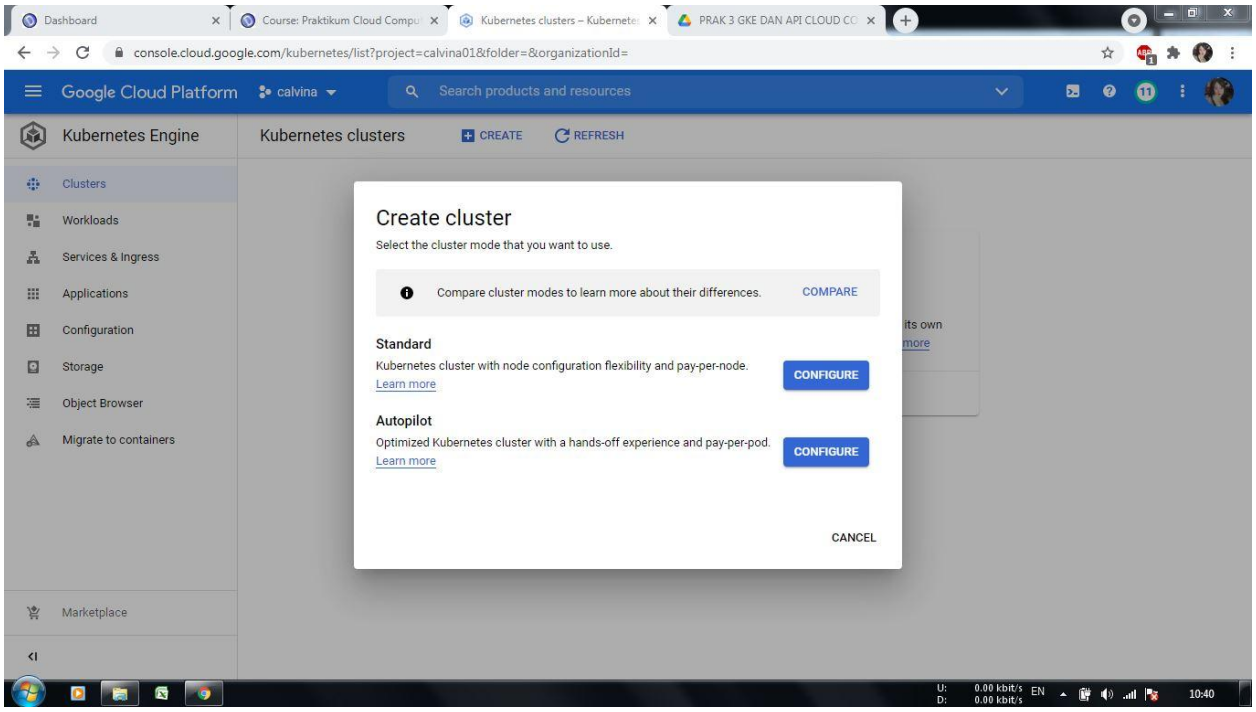
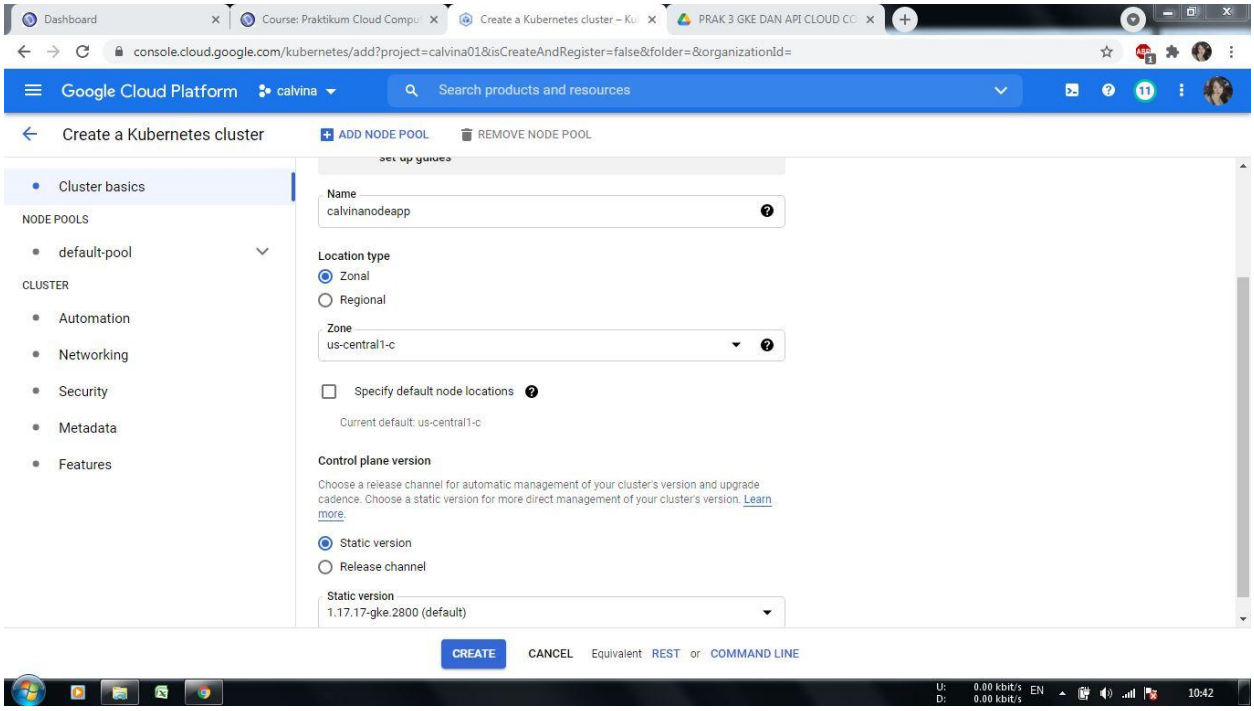
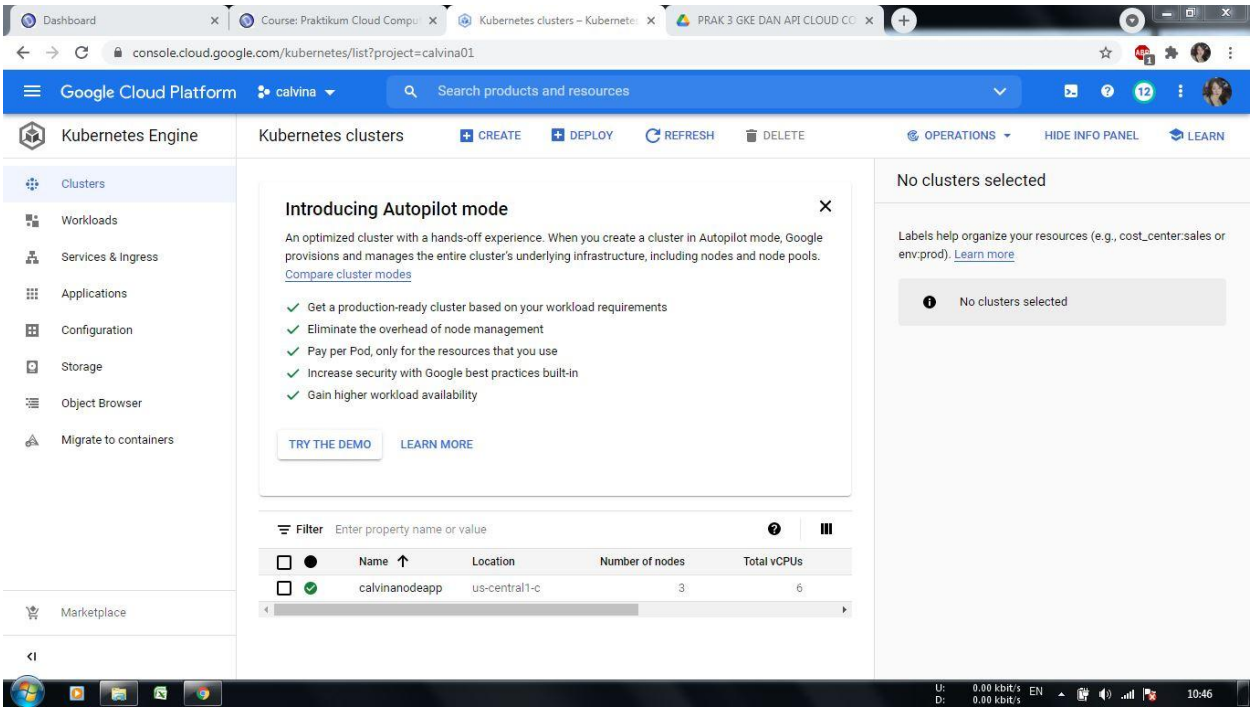
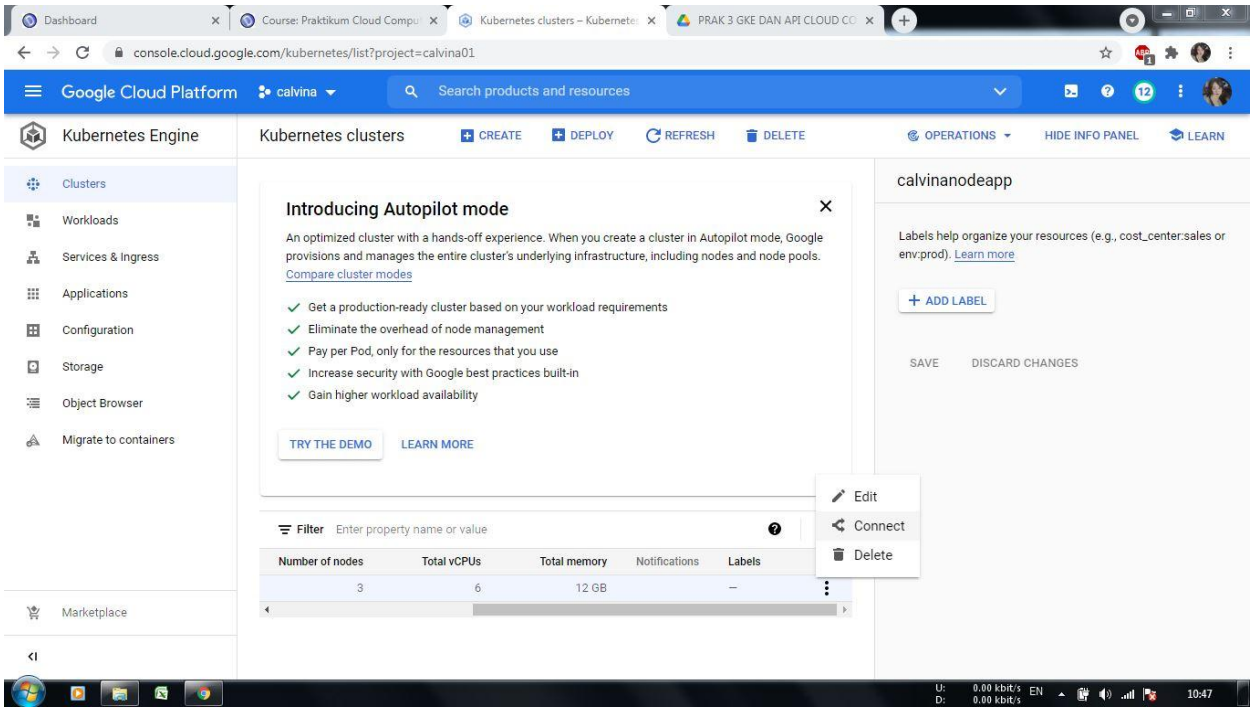
LATIHAN PRAK CLOUD COMPUTING PERTEMUAN KE-4






Dashboard
Course: Praktikum Cloud Compu
Create a Kubernetes cluster – Ku
PRAK 3 GKE DAN API CLOUD CO
console.cloud.google.com/kubernetes/add?project=calvina01&isCreateAndRegister=false&folder=&organizationId=
Google Cloud Platform
calvina
Search products and resources
Create a Kubernetes cluster
ADD NODE POOL
REMOVE NODE POOL
Cluster basics
NODE POOLS
default-pool
CLUSTER
Automation
Networking
Security
Metadata
Features
Name
calvinanodeapp
Location type
Zonal
Regional
Zone
us-central1-c
Specify default node locations
Current default: us-central1-c
Control plane version
Choose a release channel for automatic management of your cluster's version and upgrade cadence. Choose a static version for more direct management of your cluster's version. Learn more.
Static version
Release channel
Static version
1.17.17-gke.2800 (default)
CREATE
CANCEL
Equivalent REST or COMMAND LINE
10:42


Dashboard
Course: Praktikum Cloud Compu
Kubernetes clusters – Kubernete
PRAK 3 GKE DAN API CLOUD CO
console.cloud.google.com/kubernetes/list?project=calvina01
Google Cloud Platform
calvina
Search products and resources
Kubernetes Engine
Kubernetes clusters
CREATE
DEPLOY
REFRESH
DELETE
OPERATIONS
HIDE INFO PANEL
LEARN
Clusters
Workloads
Services & Ingress
Applications
Configuration
Storage
Object Browser
Migrate to containers
Marketplace
Introducing Autopilot mode
An optimized cluster with a hands-off experience. When you create a cluster in Autopilot mode, Google provisions and manages the entire cluster's underlying infrastructure, including nodes and node pools.
Compare cluster modes
Get a production-ready cluster based on your workload requirements
Eliminate the overhead of node management
Pay per Pod, only for the resources that you use
Increase security with Google best practices built-in
Gain higher workload availability
TRY THE DEMO
LEARN MORE
Filter
Enter property name or value
Name
Location
Number of nodes
Total vCPUs
calvinanodeapp
us-central1-c
3
6
No clusters selected
Labels help organize your resources (e.g., cost_center:sales or env:prod). Learn more
No clusters selected
10:46


Dashboard
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Kubernetes clusters – Kubernete
PRAK 3 GKE DAN API CLOUD CO
console.cloud.google.com/kubernetes/list?project=calvina01
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Search products and resources
Kubernetes Engine
Kubernetes clusters
CREATE
DEPLOY
REFRESH
DELETE
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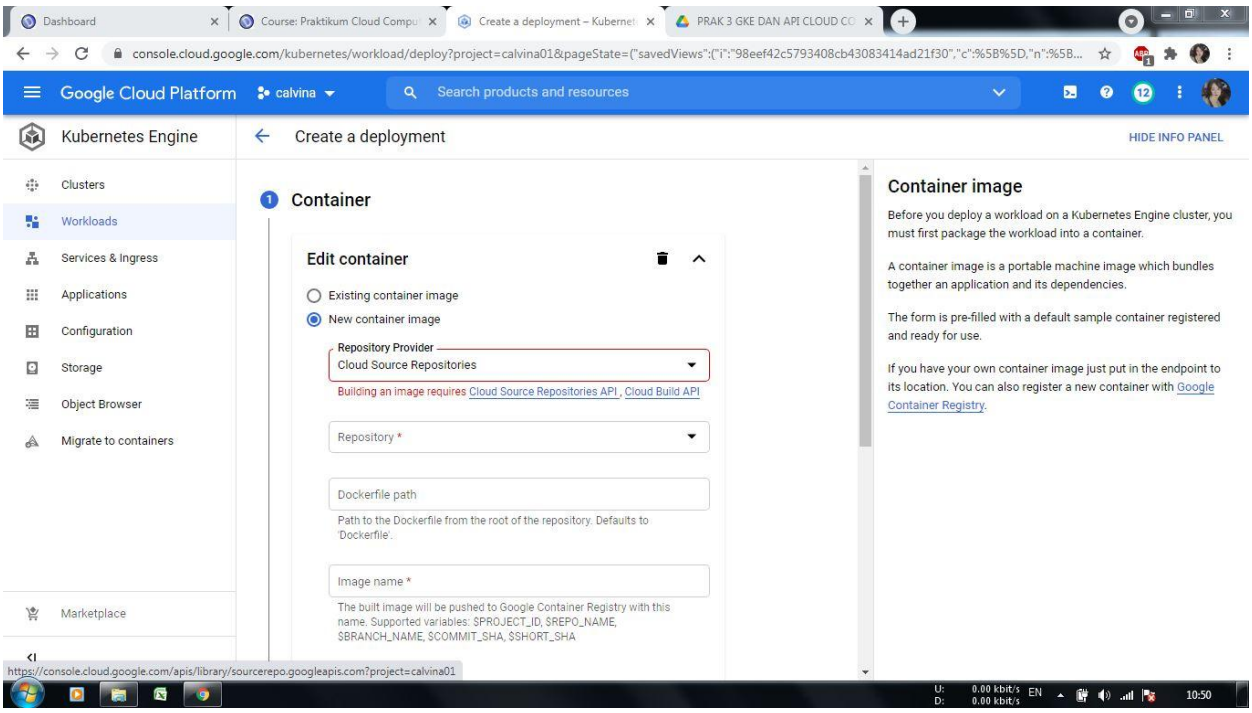
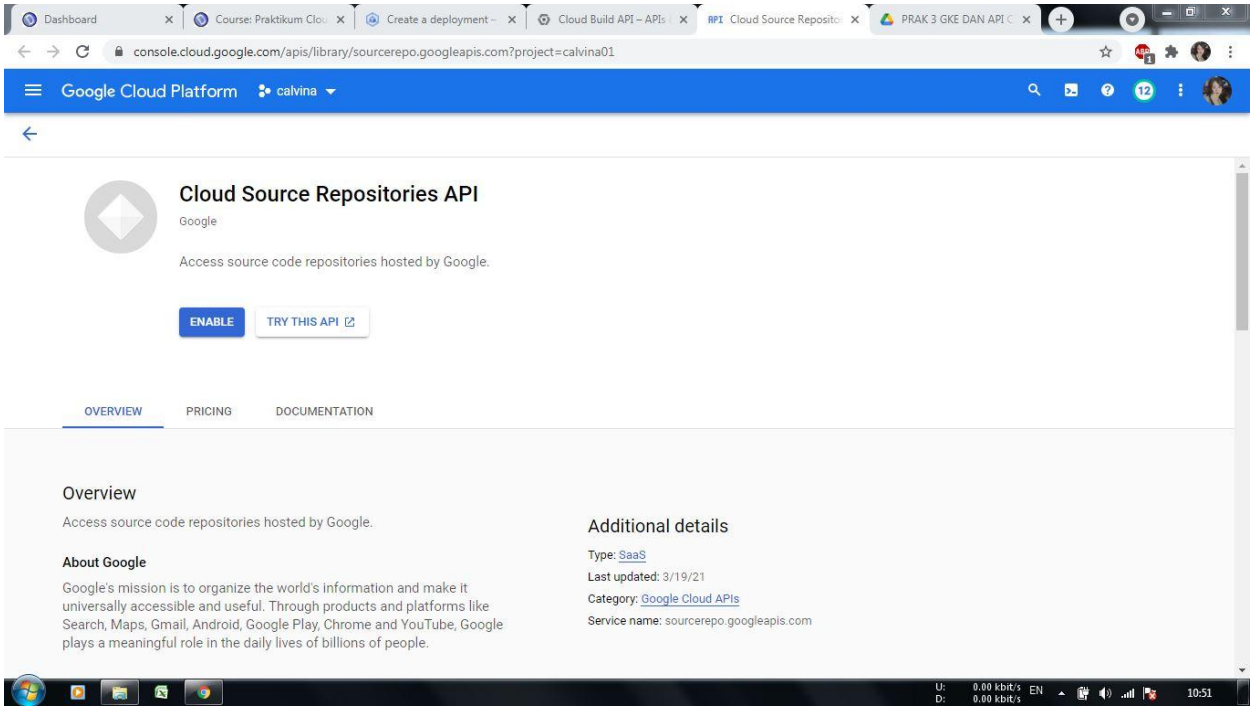
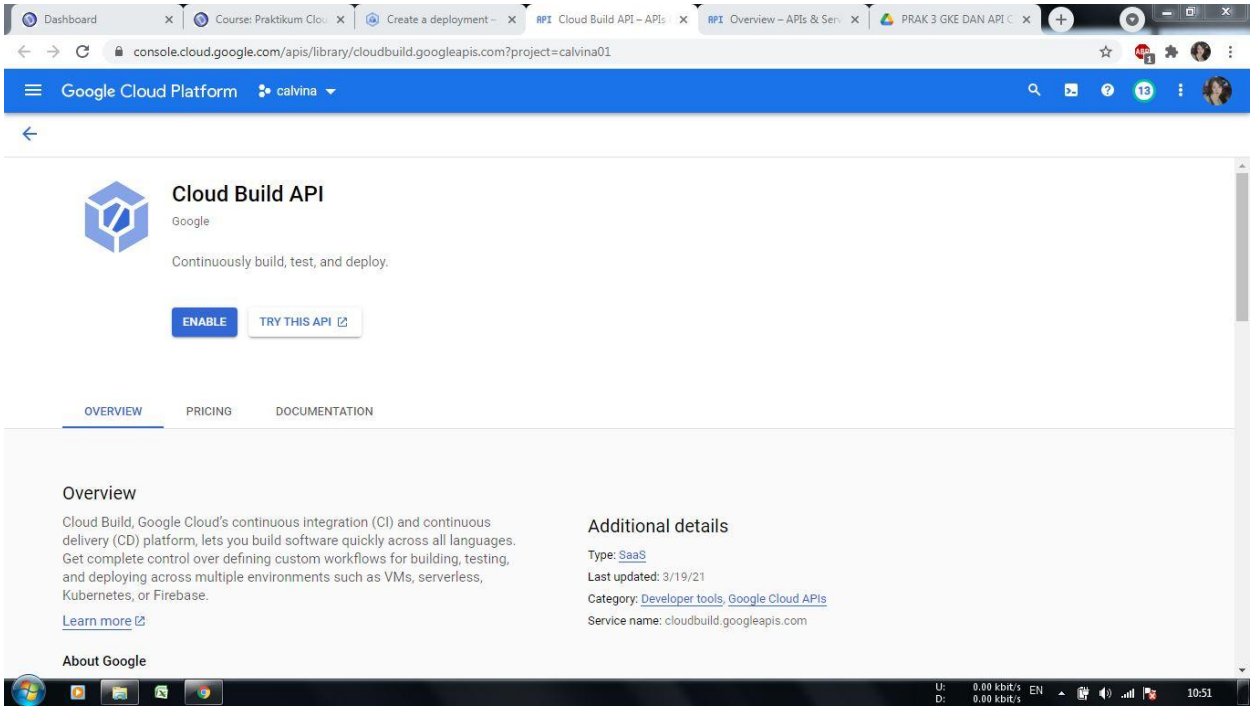
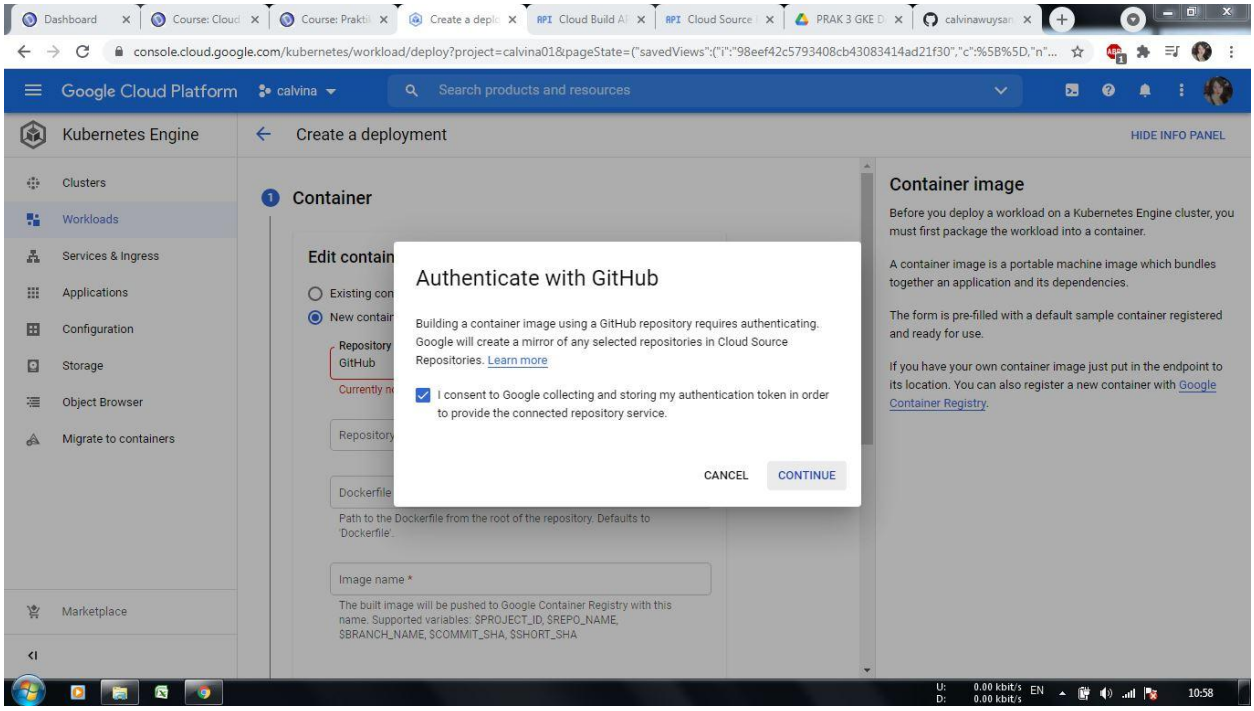
Eliminate the overhead of node management
Pay per Pod, only for the resources that you use
Increase security with Google best practices built-in
Gain higher workload availability
TRY THE DEMO
LEARN MORE
Filter
Enter property name or value
Number of nodes
Total vCPUs
Total memory
Notifications
Labels
3
6
12 GB
–
Edit
Connect
Delete
calvinanodeapp
Labels help organize your resources (e.g., cost_center:sales or env:prod). Learn more
ADD LABEL
SAVE
DISCARD CHANGES
10:47


Dashboard
Course: Praktikum Cloud Compu
Create a deployment – Kubernet
PRAK 3 GKE DAN API CLOUD CO
console.cloud.google.com/kubernetes/workload/deploy?project=calvina01&pageState=("savedViews":("i":"98eef42c5793408cb43083414ad21f30","c":%5B%5D,"n":%5B...
Google Cloud Platform
calvina
Search products and resources
Kubernetes Engine
Create a deployment
HIDE INFO PANEL
Clusters
Workloads
Services & Ingress
Applications
Configuration
Storage
Object Browser
Migrate to containers
Marketplace
1 Container
Edit container
Existing container image
New container image
Repository Provider
Cloud Source Repositories
Building an image requires Cloud Source Repositories API , Cloud Build API
Repository *
Dockerfile path
Path to the Dockerfile from the root of the repository. Defaults to 'Dockerfile'.
Image name *
The built image will be pushed to Google Container Registry with this name. Supported variables: $PROJECT_ID, $REPO_NAME, $BRANCH_NAME, $COMMIT_SHA, $SHORT_SHA
Container image
Before you deploy a workload on a Kubernetes Engine cluster, you must first package the workload into a container.
A container image is a portable machine image which bundles together an application and its dependencies.
The form is pre-filled with a default sample container registered and ready for use.
If you have your own container image just put in the endpoint to its location. You can also register a new container with Google Container Registry.
https://console.cloud.google.com/apis/library/sourcerepo.googleapis.com?project=calvina01
10:50


Dashboard
Course: Praktikum Clou
Create a deployment –
Cloud Build API – APIs
Cloud Source Reposito
PRAK 3 GKE DAN API C
console.cloud.google.com/apis/library/sourcerepo.googleapis.com?project=calvina01
Google Cloud Platform
calvina
Cloud Source Repositories API
Google
Access source code repositories hosted by Google.
ENABLE
TRY THIS API
OVERVIEW
PRICING
DOCUMENTATION
Overview
Access source code repositories hosted by Google.
About Google
Google's mission is to organize the world's information and make it universally accessible and useful. Through products and platforms like Search, Maps, Gmail, Android, Google Play, Chrome and YouTube, Google plays a meaningful role in the daily lives of billions of people.
Additional details
Type: SaaS
Last updated: 3/19/21
Category: Google Cloud APIs
Service name: sourcerepo.googleapis.com
10:51


Dashboard
Course: Praktikum Clou
Create a deployment –
Cloud Build API – APIs
Overview – APIs & Ser
PRAK 3 GKE DAN API C
console.cloud.google.com/apis/library/cloudbuild.googleapis.com?project=calvina01
Google Cloud Platform
calvina
Cloud Build API
Google
Continuously build, test, and deploy.
ENABLE
TRY THIS API
OVERVIEW
PRICING
DOCUMENTATION
Overview
Cloud Build, Google Cloud's continuous integration (CI) and continuous delivery (CD) platform, lets you build software quickly across all languages. Get complete control over defining custom workflows for building, testing, and deploying across multiple environments such as VMs, serverless, Kubernetes, or Firebase.
Learn more
About Google
Additional details
Type: SaaS
Last updated: 3/19/21
Category: Developer tools, Google Cloud APIs
Service name: cloudbuild.googleapis.com
10:51


Google Cloud Platform
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Search products and resources
Kubernetes Engine
Create a deployment
HIDE INFO PANEL
Clusters
Workloads
Services & Ingress
Applications
Configuration
Storage
Object Browser
Migrate to containers
Marketplace
Container
Authenticate with GitHub
Building a container image using a GitHub repository requires authenticating. Google will create a mirror of any selected repositories in Cloud Source Repositories. Learn more
I consent to Google collecting and storing my authentication token in order to provide the connected repository service.
CANCEL
CONTINUE
Container image
Before you deploy a workload on a Kubernetes Engine cluster, you must first package the workload into a container.
A container image is a portable machine image which bundles together an application and its dependencies.
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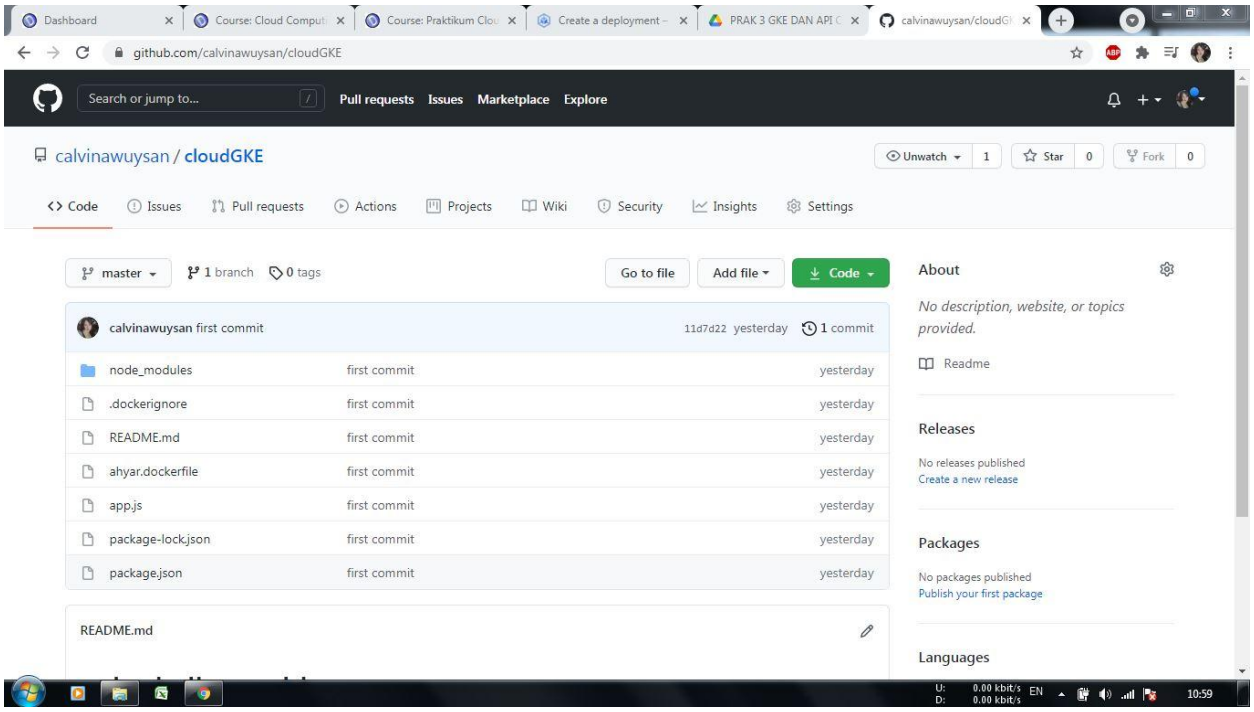
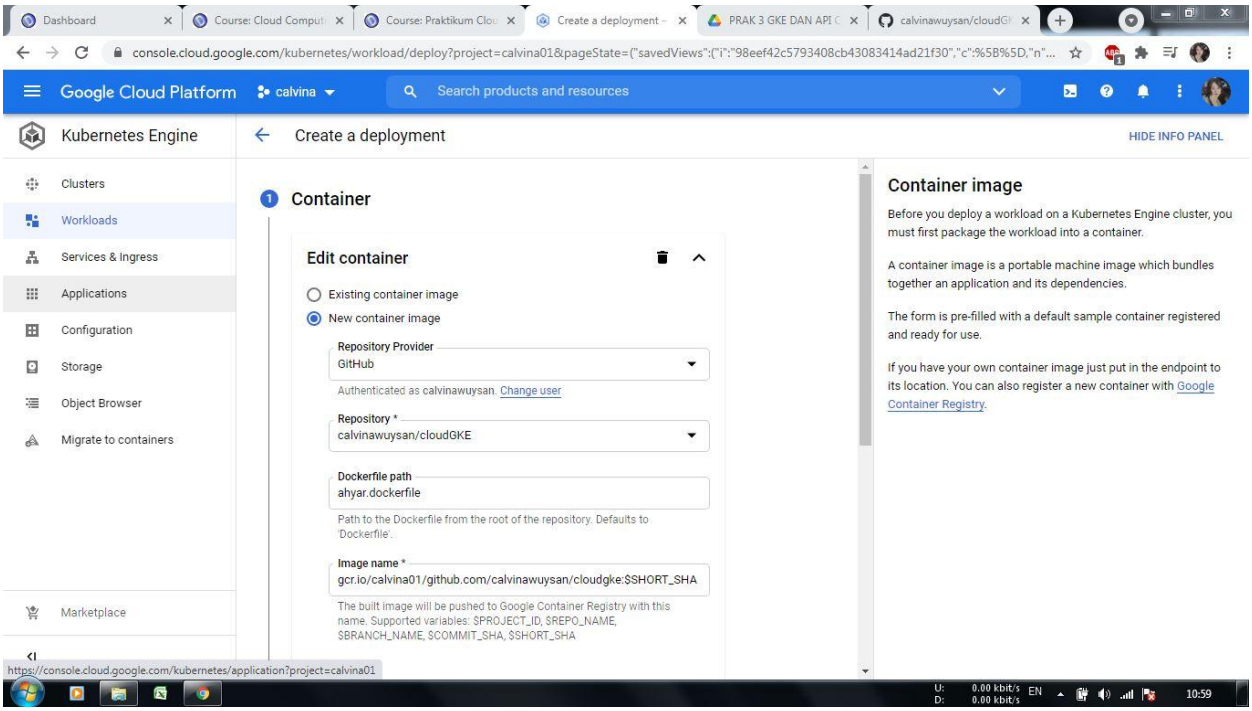

github.com/calvinawuysan/cloudGKE
Search or jump to...
Pull requests
Issues
Marketplace
Explore
calvinawuysan / cloudGKE
Unwatch 1
Star 0
Fork 0
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
master
1 branch
0 tags
Go to file
Add file
Code
calvinawuysan first commit
11d7d22 yesterday
1 commit
node_modules first commit yesterday
.dockerignore first commit yesterday
README.md first commit yesterday
ahyar.dockerfile first commit yesterday
app.js first commit yesterday
package-lock.json first commit yesterday
package.json first commit yesterday
README.md
About
No description, website, or topics provided.
Readme
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package
Languages


Dashboard
Course: Cloud Comput
Course: Praktikum Clou
Create a deployment
PRAK 3 GKE DAN API C
calvinawuysan/cloudGK
console.cloud.google.com/kubernetes/workload/deploy?project=calvina01&pageState={"savedViews":{"i":"98eef42c5793408cb43083414ad21f30","c":%5B%5D,"n"...
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Services & Ingress
Applications
Configuration
Storage
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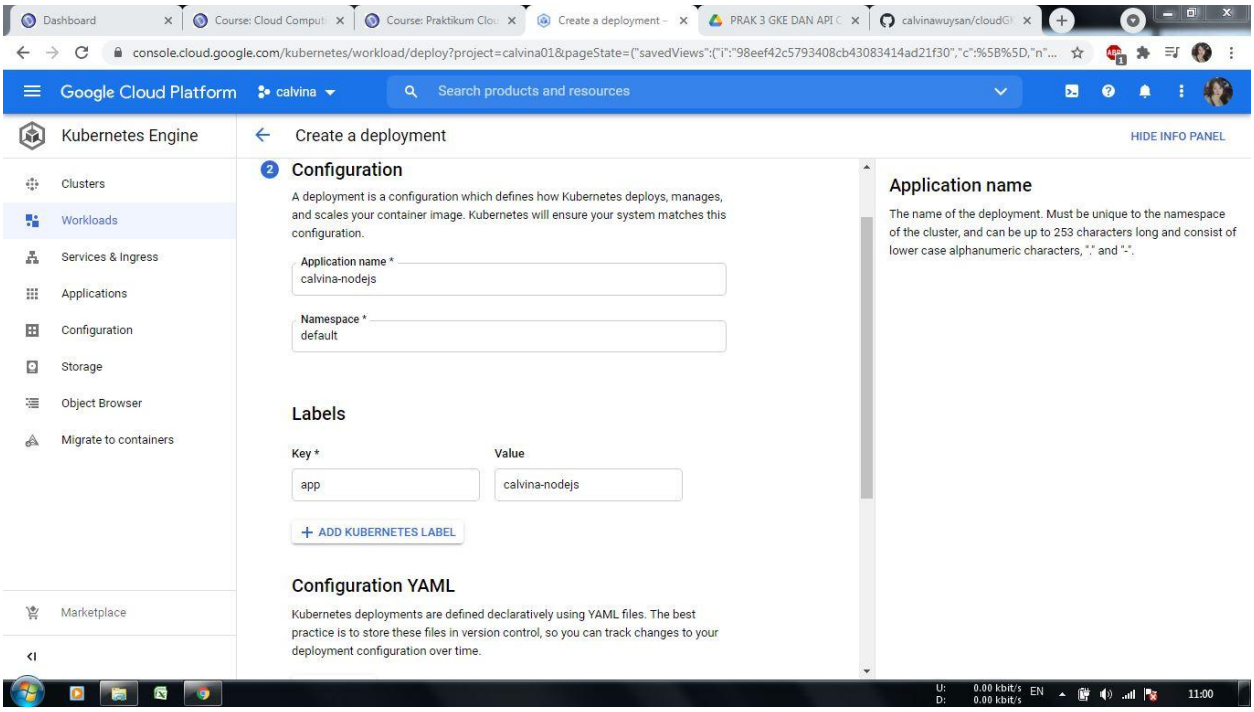
Migrate to containers
Marketplace
1 Container
Edit container
Existing container image
New container image
Repository Provider
GitHub
Authenticated as calvinawuysan. Change user
Repository *
calvinawuysan/cloudGKE
Dockerfile path
ahyar.dockerfile
Path to the Dockerfile from the root of the repository. Defaults to 'Dockerfile'.
Image name *
gcr.io/calvina01/github.com/calvinawuysan/cloudgke:$SHORT_SHA
The built image will be pushed to Google Container Registry with this name. Supported variables: $PROJECT_ID, $REPO_NAME, $BRANCH_NAME, $COMMIT_SHA, $SHORT_SHA
Container image
Before you deploy a workload on a Kubernetes Engine cluster, you must first package the workload into a container.
A container image is a portable machine image which bundles together an application and its dependencies.
The form is pre-filled with a default sample container registered and ready for use.
If you have your own container image just put in the endpoint to its location. You can also register a new container with Google Container Registry.
https://console.cloud.google.com/kubernetes/application?project=calvina01
10:59


Dashboard
Course: Cloud Comput
Course: Praktikum Clou
Create a deployment
PRAK 3 GKE DAN API C
calvinawuysan/cloudGK
console.cloud.google.com/kubernetes/workload/deploy?project=calvina01&pageState={"savedViews":{"i":"98eef42c5793408cb43083414ad21f30","c":%5B%5D,"n"...
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Kubernetes Engine
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Configuration
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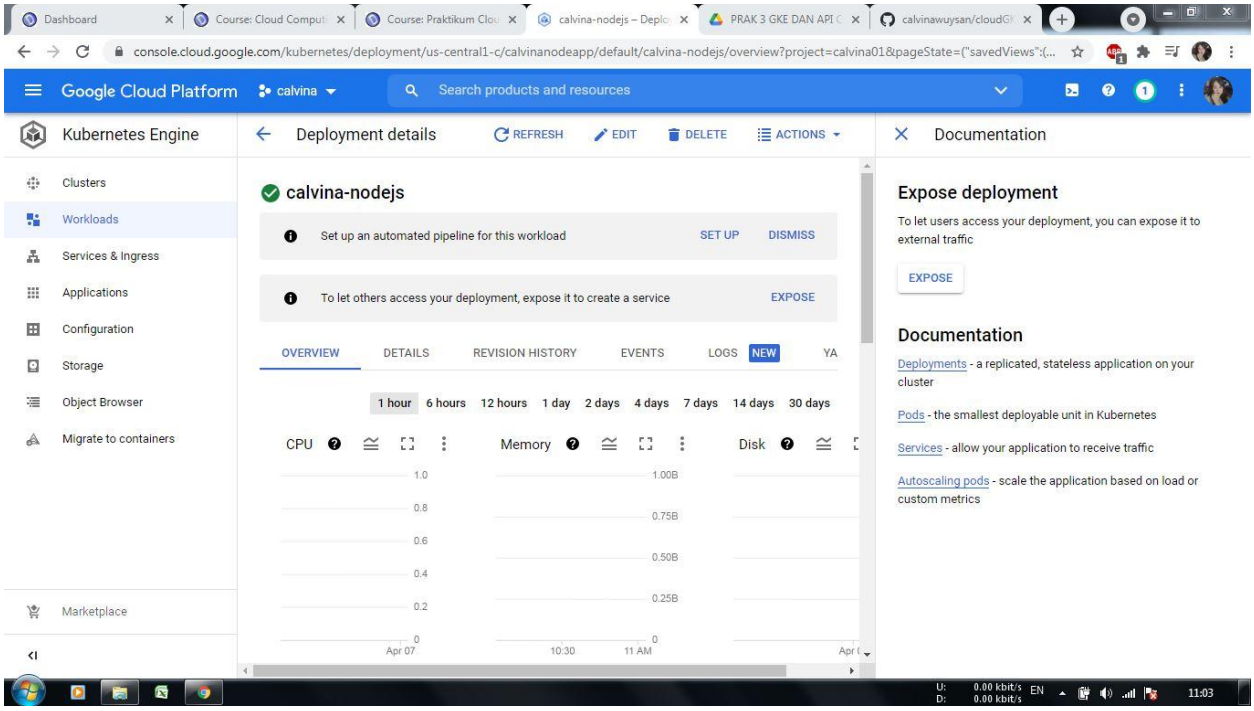
Marketplace
2 Configuration
A deployment is a configuration which defines how Kubernetes deploys, manages, and scales your container image. Kubernetes will ensure your system matches this configuration.
Application name *
calvina-nodejs
Namespace *
default
Labels
Key *
Value
app
calvina-nodejs
+ ADD KUBERNETES LABEL
Configuration YAML
Kubernetes deployments are defined declaratively using YAML files. The best practice is to store these files in version control, so you can track changes to your deployment configuration over time.
Application name
The name of the deployment. Must be unique to the namespace of the cluster, and can be up to 253 characters long and consist of lower case alphanumeric characters, "." and "-".
11:00


Dashboard
Course: Cloud Comput
Course: Praktikum Clou
calvina-nodejs – Deplo
PRAK 3 GKE DAN API C
calvinawuysan/cloudCI
console.cloud.google.com/kubernetes/deployment/us-central1-c/calvinanodeapp/default/calvina-nodejs/overview?project=calvina01&pageState={"savedViews":{...
Google Cloud Platform
calvina
Search products and resources
Kubernetes Engine
Deployment details
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DELETE
ACTIONS
Documentation
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Workloads
Services & Ingress
Applications
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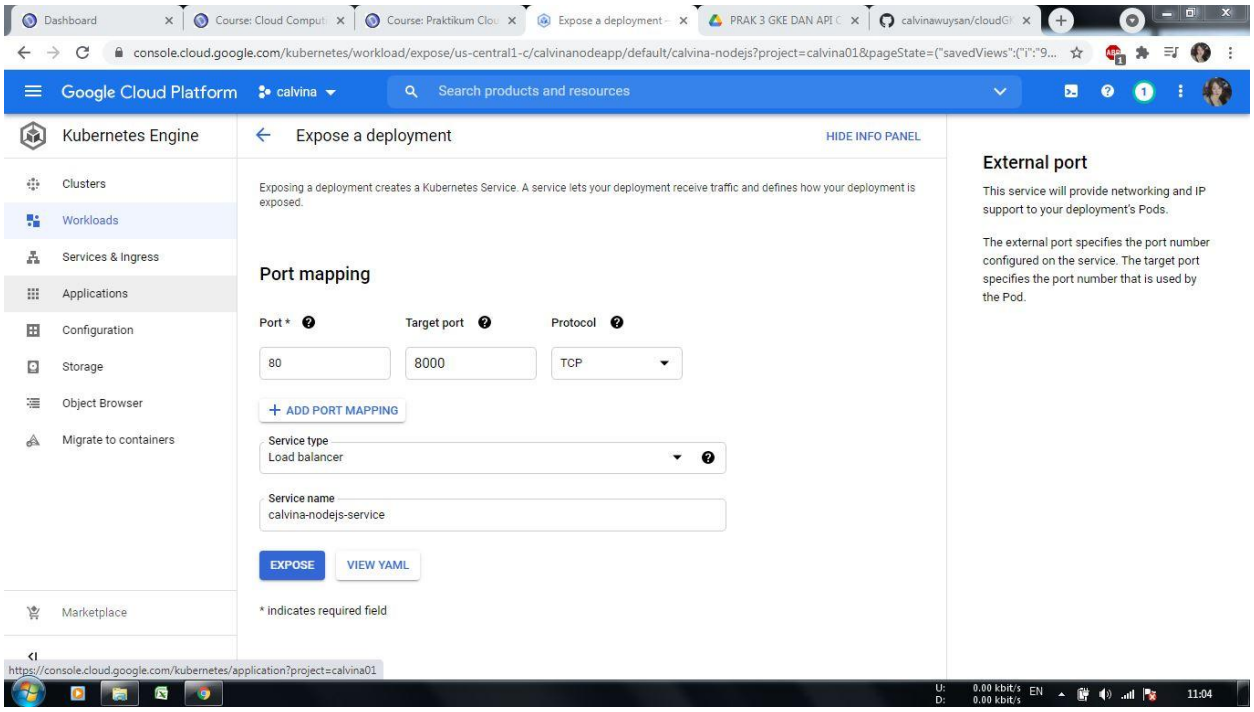
calvina-nodejs
Set up an automated pipeline for this workload
SET UP
DISMISS
To let others access your deployment, expose it to create a service
EXPOSE
OVERVIEW
DETAILS
REVISION HISTORY
EVENTS
LOGS
NEW
YA
1 hour
6 hours
12 hours
1 day
2 days
4 days
7 days
14 days
30 days
CPU
Memory
Disk
1.0
0.8
0.6
0.4
0.2
0
1.00B
0.75B
0.50B
0.25B
0
Apr 07
10:30
11 AM
Expose deployment
To let users access your deployment, you can expose it to external traffic
EXPOSE
Documentation
Deployments - a replicated, stateless application on your cluster
Pods - the smallest deployable unit in Kubernetes
Services - allow your application to receive traffic
Autoscaling pods - scale the application based on load or custom metrics
U:
D:
0.00 kbit/s
0.00 kbit/s
EN
11:03


Dashboard
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Course: Praktikum Clou
Expose a deployment -
PRAK 3 GKE DAN API C
calvinawuysan/cloudCI
console.cloud.google.com/kubernetes/workload/expose/us-central1-c/calvinanodeapp/default/calvina-nodejs?project=calvina01&pageState={"savedViews":{"i":"9...
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Kubernetes Engine
Expose a deployment
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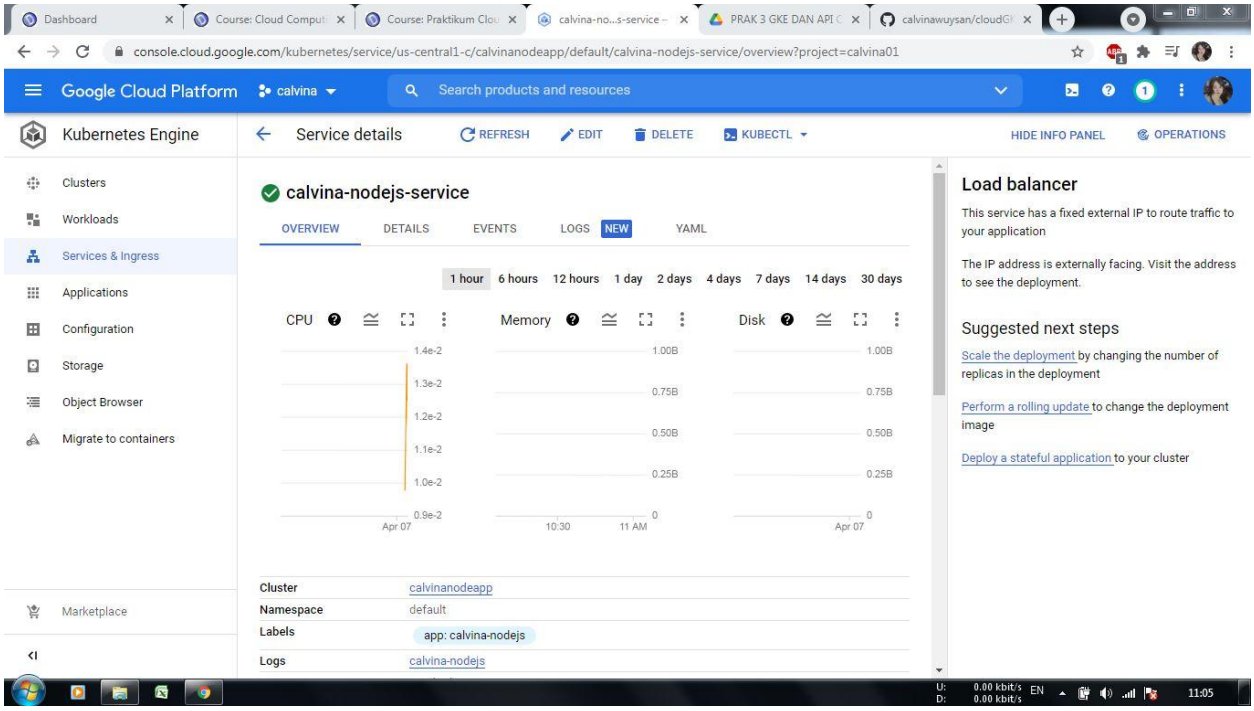
Migrate to containers
Marketplace
Exposing a deployment creates a Kubernetes Service. A service lets your deployment receive traffic and defines how your deployment is exposed.
Port mapping
Port *
Target port
Protocol
80
8000
TCP
ADD PORT MAPPING
Service type
Load balancer
Service name
calvina-nodejs-service
EXPOSE
VIEW YAML
* indicates required field
External port
This service will provide networking and IP support to your deployment's Pods.
The external port specifies the port number configured on the service. The target port specifies the port number that is used by the Pod.
https://console.cloud.google.com/kubernetes/application?project=calvina01
U:
D:
0.00 kbit/s
0.00 kbit/s
EN
11:04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Course: Cloud Comput
Course: Praktikum Clou
calvina-no...s-service
PRAK 3 GKE DAN API C
calvinawuysan/cloudCl
console.cloud.google.com/kubernetes/service/us-central1-c/calvinanodeapp/default/calvina-nodejs-service/overview?project=calvina01
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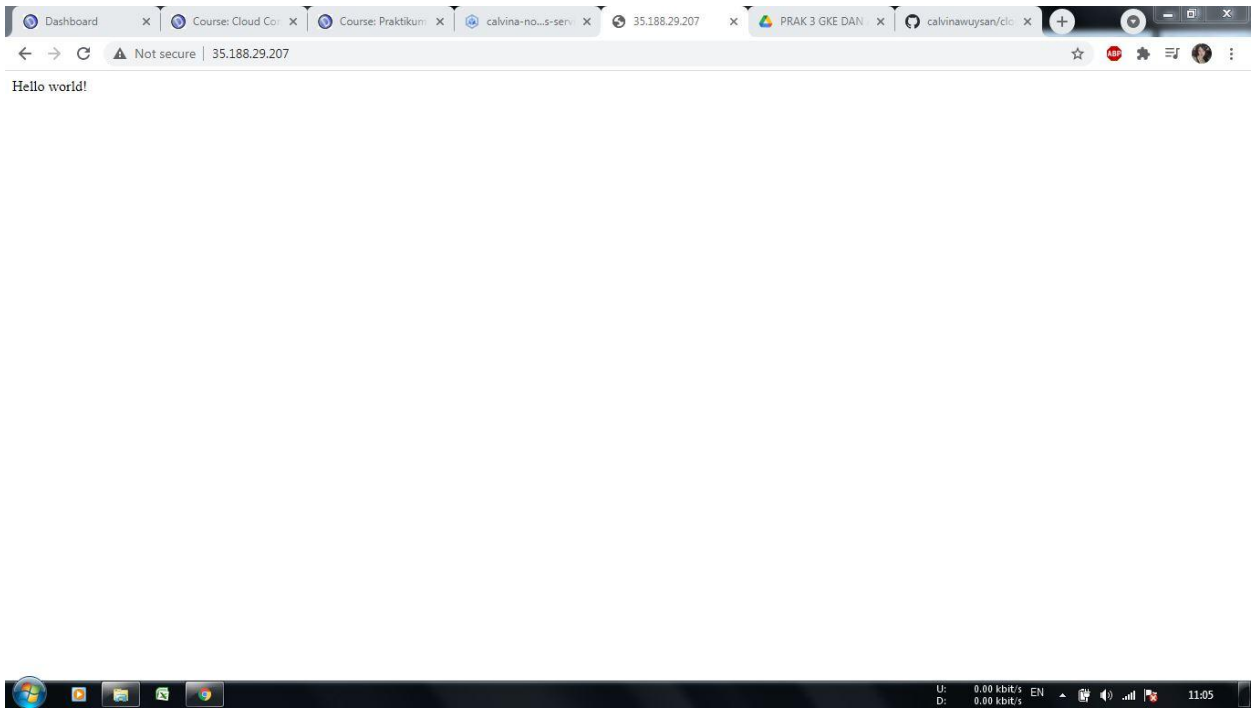
OVERVIEW
DETAILS
EVENTS
LOGS
NEW
YAML
1 hour
6 hours
12 hours
1 day
2 days
4 days
7 days
14 days
30 days
CPU
Memory
Disk
1.4e-2
1.3e-2
1.2e-2
1.1e-2
1.0e-2
0.9e-2
Apr 07
1.00B
0.75B
0.50B
0.25B
0
10:30
11 AM
Apr 07
Cluster
calvinanodeapp
Namespace
default
Labels
app: calvina-nodejs
Logs
calvina-nodejs
Load balancer
This service has a fixed external IP to route traffic to your application
The IP address is externally facing. Visit the address to see the deployment.
Suggested next steps
Scale the deployment by changing the number of replicas in the deployment
Perform a rolling update to change the deployment image
Deploy a stateful application to your cluster
U:
D:
0.00 kbit/s
0.00 kbit/s
EN
11:05


Dashboard
Course: Cloud Co
Course: Praktikum
calvina-no...s-serv
35.188.29.207
PRAK 3 GKE DAN
calvinawuysan/clo
Not secure | 35.188.29.207
Hello world!
U:
D:
0.00 kbit/s
0.00 kbit/s
EN
11:05