

GCP Architect Training

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GCP-Module-2-Assignment-1-Deployment on GCP COMPLETED by Nagesha KS

Please check the following screenshots for each question.

Tasks To Be Performed:

Do the following tasks in Kubernetes:

1. Create a GKE Cluster.
2. Deploy Nginx container on GKE and expose it to the internet.

Do the following tasks using App Engine:

1. Deploy a nodejs application on App Engine standard using gcloud (use default application mentioned in the gcp tutorial).
2. Deploy the above version as ver-1.
3. Change the content of html to "Hello world from Intellipaat".
4. Deploy the above as ver-2.
5. Browse both ver-1 and ver-2 using the URL.
6. Finally deploy a test instance, and load test on your instance with 5000 requests (do this using apache-utils).
7. Take a screenshot of the scaling.

Create an Autopilot cluster – K8s

console.cloud.google.com/kubernetes/auto/add?project=nagesha-gcp-project-1

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Create an Autopilot cluster

SWITCH TO STANDARD CLUSTER

LEARN

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

Review and create

Double check your cluster settings. Pay extra attention to the ones that can't be changed later.

Cluster basics

Cluster name: example-cluster

Cluster location: us-central1

Fleet registration

Register to a fleet: Disabled

CREATE

CANCEL

Equivalent REST or COMMAND LINE

LEARN Tutorial

Get started with GKE

GKE overview

Help document

Deploy, manage, and scale your containerized applications using the GKE environment.

Create and explore a cluster

Create a cluster and deploy a workload

Tutorial 15 min

Create a Kubernetes cluster, deploy a sample web app (workload), and view the running web app in your browser.

Explore the cluster and workload

Tutorial 5 min

Take a tour through notable components and configurations of the resources you created.

Example workflows

Configure a cluster and workload

Go to for staging activate Windows.

Tutorial 20 min

Windows Taskbar

19:55 09-10-2024

example-cluster - Kubernetes

console.cloud.google.com/kubernetes/clusters/details/us-central1/example-cluster/details?project=nagesha-gcp-project-1

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DUPLICATE

Cluster basics

Name	example-cluster	🔒
Location type	Regional	🔒
Region	us-central1	🔒
Default node zones	us-central1-a us-central1-b us-central1-c us-central1-f	✎
Release channel	Regular channel	✎ UPGRADE AVAILABLE
Version	1.30.4-gke.1348000	
Endpoint		🔒
Rollout sequence	To use rollout sequencing, register your cluster to a fleet	🔒

Automation

Maintenance window	At any time	✎
Maintenance exclusions	None	

Recommended for you

Overview of node pools

Help document

Understand how node pools work in GKE.

Quickstart

Tutorial

Deploy a containerized web application on a GKE cluster, using Cloud console.

Add and manage node pools

Help document

Add and manage the node pools that are running in your GKE clusters.

Cluster architecture

Help document

Understand the architecture of GKE clusters, including cluster masters, nodes, and node-allocatable resources.

Activate Windows

Create a private cluster

Help document

19:57

09-10-2024

example-cluster - Kubernetes

console.cloud.google.com/kubernetes/clusters/details/us-central1/example-cluster/details?project=nagesha-gcp-project-1

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Duplicate

Rollout sequence

To use rollout sequencing, register your cluster to a fleet

Automation

Maintenance window

At any time

Maintenance exclusions

None

Notifications

Disabled

Vertical Pod Auto-scaling

Enabled

Node auto-provisioning(Autopilot mode)

Enabled

Auto-provisioning network tags

Auto-scaling profile

Optimise utilisation

Networking

Private cluster

Disabled

Default SNAT

Enabled

Control plane global access

Disabled

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Activate Windows

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Help document

Windows Taskbar

19:58 09-10-2024

example-cluster - Kubernetes

console.cloud.google.com/kubernetes/clusters/details/us-central1/example-cluster/details?project=nagesha-gcp-project-1

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Networking

Private cluster	Disabled	
Default SNAT	Enabled	
Control plane global access	Disabled	
Network	default	
Subnet	default	
Stack type	IPv4	
Private control plane's endpoint subnet	default	
VPC-native traffic routing	Enabled	
Cluster pod IPv4 range (default)	gke-example-cluster-pods-ebfd0a52 (10.26.128.0/17)	
	View IP utilisation	
Cluster pod IPv4 ranges (additional)	None	
IPv4 service range	34.118.224.0/20	
Intranode visibility	Enabled	
HTTP load balancing	Enabled	
Subsetting for L4 internal load balancers	Disabled	

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Activate Windows

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Help document

19:59

09-10-2024

example-cluster - Kubernetes

console.cloud.google.com/kubernetes/clusters/details/us-central1/example-cluster/details?project=nagesha-gcp-project-1

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Intranode visibility	Enabled	
HTTP load balancing	Enabled	
Subsetting for L4 internal load balancers	Disabled	
Control plane authorised networks	Disabled	
Calico Kubernetes network policy	Disabled	
Dataplane V2	Enabled	
Dataplane V2 metrics	Enabled	
Dataplane V2 observability	Disabled	
DNS provider	Cloud DNS (cluster scope)	
NodeLocal DNSCache	Enabled	
Gateway API	Enabled	
Multi-networking	Disabled	
Inter-node transparent encryption	Disabled	
FQDN network policy	Disabled	

Security

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Activate Windows

Create a private cluster

Help document

Windows taskbar with various application icons and system tray showing time 19:59 and date 09-10-2024.

example-cluster - Kubernetes

console.cloud.google.com/kubernetes/clusters/details/us-central1/example-cluster/details?project=nagesha-gcp-project-1

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Security

Binary authorisation	Disabled	
Secret Manager	Disabled	
Shielded GKE nodes	Enabled	
Confidential GKE Nodes	Disabled	
Service account	default	
Cloud API access scopes	<div>Service Control</div> <div>Service Management</div> <div>Stackdriver Logging API</div> <div>Stackdriver Monitoring API</div> <div>Stackdriver Trace</div> <div>Storage</div>	<div>Enable d</div> <div>Read Only</div> <div>Write Only</div> <div>Full</div> <div>Write Only</div> <div>Read Only</div>

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Create a private cluster

Help document

Activate Windows

Go to Settings to activate Windows.

Windows taskbar with icons for Start, Task View, File Explorer, Edge, Word, and others.

System tray showing network, volume, and time (19:59 09-10-2024).

example-cluster - Kubernetes

console.cloud.google.com/kubernetes/clusters/details/us-central1/example-cluster/details?project=nagesha-gcp-project-1

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Application-layer secrets encryption	Disabled	
Boot disk encryption	Google-managed	
Workload Identity	Enabled	
Workload Identity namespace	nagesha-gcp-project-1.svc.id.goog	
Google Groups for RBAC	Disabled	
Legacy authorisation	Disabled	
Basic authentication	Disabled	
Client certificate	Disabled	
Security posture	Basic	
Workload vulnerability scanning	Disabled	

Metadata

Description	None	
Labels	None	
Tags	None	

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Help document

Windows taskbar with icons for various applications and the system clock showing 19:59 on 09-10-2024.

example-cluster - Kubernetes

console.cloud.google.com/kubernetes/clusters/details/us-central1/example-cluster/details?project=nagesha-gcp-project-1

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DUPLICATE

Workload vulnerability scanning

Disabled

Metadata

Description

None

Labels

None

Tags

None

Features

Ray Operator

Disabled

Logging

System, Workloads

View Logs

Cloud Monitoring

System, Persistent volume (storage), Pods, Deployment, StatefulSet, DaemonSet, Horizontal Pod auto-scaler, cAdvisor, Kubelet

View GKE dashboard

Managed service for Prometheus

Enabled

Cloud TPU

Disabled

Kubernetes alpha features

Disabled

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Create a private cluster

Help document

20:00

09-10-2024

example-cluster - Kubernetes

console.cloud.google.com/kubernetes/clusters/details/us-central1/example-cluster/details?project=nagesha-gcp-project-1

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View Logs

Cloud Monitoring

System, Persistent volume (storage), Pods, Deployment, StatefulSet, DaemonSet, Horizontal Pod auto-scaler, cAdvisor, Kubelet

View GKE dashboard

Managed service for Prometheus

Enabled

Cloud TPU

Disabled

Kubernetes alpha features

Disabled

Cost allocation

Disabled

GKE usage metering

Disabled

Backup for GKE

Disabled

Config Connector

Disabled

Compute Engine persistent disk CSI Driver

Enabled

Image streaming

Enabled

Filestore CSI driver

Enabled

Cloud Storage FUSE CSI driver

Enabled

Service Mesh

Disabled

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Create a private cluster

Go to Settings to activate Windows.

Help document

20:00

09-10-2024

example-cluster - Kubernetes

console.cloud.google.com/kubernetes/list/overview?project=nagesha-gcp-project-1

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<|

1 Kubernetes cluster selected

DELETE

LABELS

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Filter

Enter property name or value

Location	Number of nodes	Total vCPUs	Total memory	Notifications	Labels
s-central1	0	0	0 GB		–

Connect

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Tutorial

Get started with GKE

GKE overview

Help document

Deploy, manage, and scale your containerized applications using the GKE environment.

Create and explore a cluster

Create a cluster and deploy a workload

Tutorial

15 min

Create a Kubernetes cluster, deploy a sample web app (workload), and view the running web app in your browser.

Explore the cluster and workload

Tutorial

5 min

Take a tour through notable components and configurations of the resources you created.

Example workflows

Configure a cluster and workload for staging

Go to for staging: activate Windows.

Tutorial

20 min

20:00

09-10-2024

example-cluster - Kubernetes

console.cloud.google.com/kubernetes/list/overview?project=nagesha-gcp-project-1

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Connect to the cluster

You can connect to your cluster via command-line or using a dashboard.

Command-line access

Configure [kubectl](#) command line access by running the following command:

```
$ gcloud container clusters get-credentials example-cluster --region us-central1 --project nagesha-gcp-project-1
```

RUN IN CLOUD SHELL

Cloud Console dashboard

You can view the workloads running in your cluster in the Cloud Console [Workloads dashboard](#).

OPEN WORKLOADS DASHBOARD

OK

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Get started with GKE

GKE overview

Help document

Deploy, manage, and scale your containerized applications using the GKE environment.

Create and explore a cluster

Create a cluster and deploy a workload

Tutorial 15 min

Create a Kubernetes cluster, deploy a sample web app (workload), and view the running web app in your browser.

Explore the cluster and workload

Tutorial 5 min

Take a tour through notable components and configurations of the resources you created.

Example workflows

Configure a cluster and workload for staging

Tutorial 20 min

Windows taskbar with icons for Start, Task View, File Explorer, Edge, Chrome, and others. System tray shows time 20:02 and date 09-10-2024.

example-cluster - Kubernetes c

console.cloud.google.com/kubernetes/list/overview?project=nagesha-gcp-project-1&cloudshell=true

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Filter

Enter property name or value

Location	Number of nodes	Total vCPUs	Total memory	Notifications	Labels
us-central1	0	0	0 GB		

Learn

Get started with GKE

GKE overview

Help document

Deploy, manage, and scale your containerized applications using the GKE environment.

Create and explore a cluster

Create a cluster and deploy a workload

Tutorial

15 min

Create a Kubernetes cluster, deploy a

Open editor

Terminal

(nagesha-gcp-project-1)

Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to **nagesha-gcp-project-1**.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
gcloud container clusters get-credentials example-cluster --region us-central1 --project nagesha-gcp-project-1
Fetching cluster endpoint and auth data.
WARNING: cluster example-cluster is not RUNNING. The kubernetes API may or may not be available. Check the cluster status for more information.
kubeconfig entry generated for example-cluster.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1) \$

Activate Windows

Go to Settings to activate Windows.

20:03

09-10-2024

example-cluster - Kubernetes c

console.cloud.google.com/kubernetes/list/overview?project=nagesha-gcp-project-1&cloudshell=true

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Filter

Enter property name or value

location

Number of nodes

Total vCPUs

Total memory

Notifications

Labels

us-central1

0

0 GB

–

Cloud Shell

Terminal

nagesha-gcp-project-1

Open editor

Activate Windows

Go to Settings to activate Windows.

20:03

09-10-2024

Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to **nagesha-gcp-project-1**.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
gcloud container clusters get-credentials example-cluster --region us-central1 --project nagesha-gcp-project-1
Fetching cluster endpoint and auth data.
WARNING: cluster example-cluster is not RUNNING. The kubernetes API may or may not be available. Check the cluster status for more information.
kubeconfig entry generated for example-cluster.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1) \$ pwd
/home/nagesha_ks
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1) \$ 1 -l
total 4
-rwxr-xr-x 1 nagesha_ks nagesha_ks 913 Oct 9 14:32 README-cloudshell.txt*
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1) \$

The screenshot shows the Google Cloud console interface for the 'example-cluster' in the 'nagesha-gcp-project-1' project. The main content area displays the 'Kubernetes clusters' overview, which includes a table of clusters. The table has columns for 'Location', 'Number of nodes', 'Total vCPUs', 'Total memory', 'Notifications', and 'Labels'. The first cluster, 'example-cluster', is located in 's-central1' and has 1 node, 0 vCPUs, and 0 GB memory. The page also features a sidebar with navigation links and a terminal window at the bottom with a command prompt.

Location	Number of nodes	Total vCPUs	Total memory	Notifications	Labels
s-central1	1	0	0 GB		

The screenshot displays the Google Cloud console's Kubernetes engine interface. The main content area shows a list of Kubernetes clusters under the heading 'Kubernetes clusters'. A table lists the clusters with columns for location, number of nodes, total vCPUs, total memory, notifications, and labels. The only cluster shown is 'example-cluster' in the 'us-central1-a' zone, with 0 nodes, 0 vCPUs, and 0 GB of memory. The interface includes a sidebar on the left with navigation links such as 'Learn about Enterprise', 'Marketplace', and 'Release notes'. A 'Terminal' pane at the bottom shows the execution of 'gcloud container clusters get-credentials' and 'kubectl create deployment' commands. A right-hand sidebar contains a 'Get started with GKE' tutorial.

example-cluster - Kubernetes

console.cloud.google.com/kubernetes/list/overview?project=nagesha-gcp-project-1&cloudshell=true

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Filter

Enter property name or value

?

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Location	Number of nodes	Total vCPUs	Total memory	Notifications	Labels
us-central1		0.5	2 GB		–

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Tutorial

Get started with GKE

GKE overview

Help document

Deploy, manage, and scale your containerized applications using the GKE environment.

Create and explore a cluster

Create a cluster and deploy a workload

Tutorial 15 min

Create a Kubernetes cluster, deploy a

CLOUD SHELL

Terminal

(nagesha-gcp-project-1)

Open editor

.

This command is authenticated as nagesha.ks@gmail.com which is the active account specified by the [core/account] property.

Could not find [example-cluster] in [us-central1-a].

Did you mean [example-cluster] in [us-central1]?

nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)\$ kubectl create deployment nginx-deployment --image=nginx

Warning: autopilot-default-resources-mutator:Autopilot updated Deployment default/nginx-deployment: defaulted unspecified 'cpu' resource for containers [nginx] (see http://g.co/gke/autopilot-defaults).

deployment.apps/nginx-deployment created

nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)\$ kubectl expose deployment nginx-deployment --type=LoadBalancer --port 80 --target-port 80

service/nginx-deployment exposed

nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)\$ kubectl get services

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	34.118.224.1	<none>	443/TCP	3m34s
nginx-deployment	LoadBalancer	34.118.237.35	<pending>	80:32396/TCP	22s

Activate Windows
Go to Settings to activate Windows.

Windows taskbar

20:05 09-10-2024

example-cluster - Kubernetes

console.cloud.google.com/kubernetes/list/overview?project=nagesha-gcp-project-1&cloudshell=true

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Filter

Enter property name or value

?

⋮

LEARN Tutorial

Get started with GKE

GKE overview

Help document

Deploy, manage, and scale your containerized applications using the GKE environment.

Create and explore a cluster

Create a cluster and deploy a

CLOUD SHELL

Terminal

(nagesha-gcp-project-1)

+

Open editor

⌨

⚙

📧

📄

⋮

⌵

↕

🔗

✕

Did you mean [example-cluster] in [us-central1]?
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)\$ kubectl create deployment nginx-deployment --image=nginx
Warning: autopilot-default-resources-mutator:Autopilot updated Deployment default/nginx-deployment: defaulted unspecified 'cpu' resource for containers [nginx] (see http://g.co/gke/autopilot-defaults).
deployment.apps/nginx-deployment created
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)\$ kubectl expose deployment nginx-deployment --type=LoadBalancer --port 80 --target-port 80
service/nginx-deployment exposed
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)\$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 34.118.224.1 <none> 443/TCP 3m34s
nginx-deployment LoadBalancer 34.118.237.35 <pending> 80:32396/TCP 22s
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)\$ gcloud app create --region=us-central
You are creating an app for project [nagesha-gcp-project-1].
WARNING: Creating an App Engine application for a project is irreversible and the region cannot be changed. More information about regions is at <https://cloud.google.com/appengine/docs/locations>.

Creating App Engine application in project [nagesha-gcp-project-1] and region [us-central]....done.
Success! The app is now created. Please use 'gcloud app deploy' to deploy your first app.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)\$

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example-cluster - Kubernetes

console.cloud.google.com/kubernetes/list/overview?project=nagesha-gcp-project-1&cloudshell=true

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kubernetes ClusterIP 34.118.224.1 <none> 443/TCP 3m34s

nginx-deployment LoadBalancer 34.118.237.35 <pending> 80:32396/TCP 22s

nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)\$ gcloud app create --region=us-central

You are creating an app for project [nagesha-gcp-project-1].

WARNING: Creating an App Engine application for a project is irreversible and the region cannot be changed. More information about regions is at <https://cloud.google.com/appengine/docs/locations>.

Creating App Engine application in project [nagesha-gcp-project-1] and region [us-central]....done.

Success! The app is now created. Please use 'gcloud app deploy' to deploy your first app.

nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)\$ git clone https://github.com/GoogleCloudPlatform/nodejs-docs-samples.git

cd nodejs-docs-samples/appengine/hello-world

Cloning into 'nodejs-docs-samples'...

remote: Enumerating objects: 58025, done.

remote: Counting objects: 100% (1428/1428), done.

remote: Compressing objects: 100% (598/598), done.

remote: Total 58025 (delta 838), reused 1206 (delta 729), pack-reused 56597 (from 1)

Receiving objects: 100% (58025/58025), 83.04 MiB | 14.91 MiB/s, done.

Resolving deltas: 100% (39826/39826), done.

nagesha_ks@cloudshell:~/nodejs-docs-samples/appengine/hello-world (nagesha-gcp-project-1)\$

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example-cluster - Kubernetes c X +

console.cloud.google.com/kubernetes/list/overview?project=nagesha-gcp-project-1&cloudshell=true

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cannot be changed. More information about regions is at <https://cloud.google.com/appengine/docs/locations>.

Creating App Engine application in project [nagesha-gcp-project-1] and region [us-central]...done.
Success! The app is now created. Please use 'gcloud app deploy' to deploy your first app.

```
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1) $ git clone https://github.com/GoogleCloudPlatform/nodejs-docs-samples.git
cd nodejs-docs-samples/appengine/hello-world
Cloning into 'nodejs-docs-samples'...
remote: Enumerating objects: 58025, done.
remote: Counting objects: 100% (1428/1428), done.
remote: Compressing objects: 100% (598/598), done.
remote: Total 58025 (delta 838), reused 1206 (delta 729), pack-reused 56597 (from 1)
Receiving objects: 100% (58025/58025), 83.04 MiB | 14.91 MiB/s, done.
Resolving deltas: 100% (39826/39826), done.
nagesha_ks@cloudshell:~/nodejs-docs-samples/appengine/hello-world (nagesha-gcp-project-1) $ gcloud app deploy
ERROR: An app.yaml (or appengine-web.xml) file is required to deploy this directory as an App Engine application. Create an app.yaml file using the directions at https://cloud.google.com/appengine/docs/flexible/reference/app-yaml (App Engine flexible environment) or https://cloud.google.com/appengine/docs/standard/reference/app-yaml (App Engine standard environment) under the tab for your language.
ERROR: (gcloud.app.deploy) [/home/nagesha_ks/nodejs-docs-samples/appengine/hello-world] could not be identified as a valid source directory or file.
nagesha_ks@cloudshell:~/nodejs-docs-samples/appengine/hello-world (nagesha-gcp-project-1) $
```

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```
url: https://cloud.google.com/compute/docs/resource-error
- localizedMessage:
  locale: en-US
  message: A f1-micro VM instance is currently unavailable in the us-centrall1-a
    zone. Alternatively, you can try your request again with a different VM hardware
    configuration or at a later time. For more information, see the troubleshooting
    documentation.
- errorInfo:
  domain: compute.googleapis.com
  metadata:
    attachment: ''
    vmType: f1-micro
    zone: us-centrall1-a
    zonesAvailable: ''
  reason: resource_availability
message: The zone 'projects/nagesha-gcp-project-1/zones/us-centrall1-a' does not have
  enough resources available to fulfill the request. Try a different zone, or try
  again later.

nagesha_ks@cloudshell:~/nodejs-docs-samples/appengine/hello-world (nagesha-gcp-project-1) $
```

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example-cluster - Kubernetes

console.cloud.google.com/kubernetes/list/overview?project=nagesha-gcp-project-1&cloudshell=true

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✖

Your identification has been saved in /home/nagesha_ks/.ssh/google_compute_engine

Your public key has been saved in /home/nagesha_ks/.ssh/google_compute_engine.pub

The key fingerprint is:

SHA256:zMb91ek7ERK4dM8DEsufrQ4B46ynok4hnhGsQxZZ4s4 nagesha_ks@cs-593405469774-default

The key's randomart image is:

+---[RSA 3072]-----+

| oo. .o

| o.o .+.+

| * o.o+ =

| * . o *.o.o=

| +E o S +..o

| o.+ . . . =..

| + . . . +.o

| . . o +.

| oo .. +o

+---[SHA256]-----+

ERROR! (gcloud.compute.ssh) Could not fetch resource:

- The resource 'projects/nagesha-gcp-project-1/zones/us-central1-a/instances/load-test-instance' was not found

nagesha_ks@cloudshell:~/nodejs-docs-samples/appengine/hello-world (nagesha-gcp-project-1)

\$

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example-cluster - Kubernetes x +

console.cloud.google.com/kubernetes/list/overview?project=nagesha-gcp-project-1&cloudshell=true

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```
Get:1 https://cli.github.com/packages stable InRelease [3,917 B]
Hit:2 https://download.docker.com/linux/ubuntu noble InRelease
Get:3 https://packages.cloud.google.com/apt gcsfuse-noble InRelease [1,227 B]
Get:4 https://packages.cloud.google.com/apt cloud-sdk InRelease [1,618 B]
Get:5 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:6 https://packages.cloud.google.com/apt cloud-sdk/main amd64 Packages [1,546 kB]
Get:7 https://packages.cloud.google.com/apt cloud-sdk/main amd64 Packages [3,321 kB]
Hit:8 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:9 https://apt.postgresql.org/pub/repos/apt noble-pgdg InRelease
Get:10 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [370 kB]
Get:12 https://ppa.launchpadcontent.net/dotnet/backports/ubuntu noble InRelease [24.1 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [479 kB]
Get:15 https://ppa.launchpadcontent.net/dotnet/backports/ubuntu noble/main amd64 Packages [6,474 B]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [684 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [513 kB]
Fetched 7,328 kB in 3s (2,261 kB/s)
Reading package lists... Done
nagesha_ks@cloudshell:~/nodejs-docs-samples/appengine/hello-world (nagesha-gcp-project-1) $
```

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example-cluster - Kubernetes

console.cloud.google.com/kubernetes/list/overview?project=nagesha-gcp-project-1&cloudshell=true

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Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1t64 amd64 1.6.3-1.1ubuntu7 [91.9 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 apache2-utils amd64 2.4.58-1ubuntu8.4 [97.1 kB]
Fetched 297 kB in 2s (155 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package libapr1t64:amd64.
(Reading database ... 124465 files and directories currently installed.)
Preparing to unpack .../libapr1t64_1.7.2-3.1ubuntu0.1_amd64.deb ...
Unpacking libapr1t64:amd64 (1.7.2-3.1ubuntu0.1) ...
Selecting previously unselected package libaprutil1t64:amd64.
Preparing to unpack .../libaprutil1t64_1.6.3-1.1ubuntu7_amd64.deb ...
Unpacking libaprutil1t64:amd64 (1.6.3-1.1ubuntu7) ...
Selecting previously unselected package apache2-utils.
Preparing to unpack .../apache2-utils_2.4.58-1ubuntu8.4_amd64.deb ...
Unpacking apache2-utils (2.4.58-1ubuntu8.4) ...
Setting up libapr1t64:amd64 (1.7.2-3.1ubuntu0.1) ...
Setting up libaprutil1t64:amd64 (1.6.3-1.1ubuntu7) ...
Setting up apache2-utils (2.4.58-1ubuntu8.4) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
nagesha_ks@cloudshell:~/nodejs-docs-samples/appengine/hello-world (nagesha-gcp-project-1)\$

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00E6CA90BB790000:error:0A000197:SSL routines:SSL_shutdown:shutdown while in init:../ssl/ssl_lib.c:2278:
00E6CA90BB790000:error:0A000126:SSL routines:ssl3_read_n:unexpected eof while reading:../ssl/record/rec_layer_s3.c:316:
SSL read failed (1) - closing connection
00E6CA90BB790000:error:0A000197:SSL routines:SSL_shutdown:shutdown while in init:../ssl/ssl_lib.c:2278:
00E6CA90BB790000:error:0A000126:SSL routines:ssl3_read_n:unexpected eof while reading:../ssl/record/rec_layer_s3.c:316:
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00E6CA90BB790000:error:0A000197:SSL routines:SSL_shutdown:shutdown while in init:../ssl/ssl_lib.c:2278:
00E6CA90BB790000:error:0A000126:SSL routines:ssl3_read_n:unexpected eof while reading:../ssl/record/rec_layer_s3.c:316:
SSL read failed (1) - closing connection

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example-cluster - Kubernetes

console.cloud.google.com/kubernetes/list/overview?project=nagesha-gcp-project-1&cloudshell=true

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00E6CA90BB790000:error:0A000197:SSL routines:SSL_shutdown:shutdown while in init:../ssl/ssl_lib.c:2278:
00E6CA90BB790000:error:0A000126:SSL routines:ssl3_read_n:unexpected eof while reading:../ssl/record/rec_layer_s3.c:316:
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00E6CA90BB790000:error:0A000197:SSL routines:SSL_shutdown:shutdown while in init:../ssl/ssl_lib.c:2278:
00E6CA90BB790000:error:0A000126:SSL routines:ssl3_read_n:unexpected eof while reading:../ssl/record/rec_layer_s3.c:316:
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00E6CA90BB790000:error:0A000197:SSL routines:SSL_shutdown:shutdown while in init:../ssl/ssl_lib.c:2278:
00E6CA90BB790000:error:0A000126:SSL routines:ssl3_read_n:unexpected eof while reading:../ssl/record/rec_layer_s3.c:316:
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SSL read failed (1) - closing connection
00E6CA90BB790000:error:0A000197:SSL routines:SSL_shutdown:shutdown while in init:../ssl/ssl_lib.c:2278:
00E6CA90BB790000:error:0A000126:SSL routines:ssl3_read_n:unexpected eof while reading:../ssl/record/rec_layer_s3.c:316:
apr_pollset_poll: The timeout specified has expired (70007)
Total of 4997 requests completed
nagesha_ks@cloudshell:~/nodejs-docs-samples/appengine/hello-world (nagesha-gcp-project-1)$
```

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Commands

Create a GKE Cluster

Log in to GCP Console.

Enable the GKE API.

Go to the APIs & Services -> Library > Kubernetes Engine API and enable it

Create a GKE Cluster.

Go to the Kubernetes Engine -> Clusters -> Create Cluster.

Settings:

Cluster Name: example-cluster

Location: Zonal (free tier) – Choose a zone, e.g., us-central1.

Node pool: Set 1 node (for free tier limits).

Click Create.

Connect to the cluster.

gcloud container clusters get-credentials example-cluster --zone us-central1-a

Deploy Nginx on GKE

Deploy the Nginx container.

Create a deployment for Nginx.

kubectl create deployment nginx-deployment --image=nginx

Expose Nginx to the internet.

kubectl expose deployment nginx-deployment --type=LoadBalancer --port 80 --target-port 80

Retrieve the external IP address.

kubectl get services

Nginx server using the IP in a browser.

Deploy a Node.js App on App Engine and Version Control

Deploy a Node.js Application on App Engine Standard

Install the GCP SDK and set up App Engine if not done.

gcloud app create --region=us-central

Clone the sample Node.js app provided by GCP for App Engine.

git clone https://github.com/GoogleCloudPlatform/nodejs-docs-samples.git

cd nodejs-docs-samples/appengine/hello-world

Deploy the app using gcloud.

gcloud app deploy

Deploy Version 1

gcloud app deploy --version=ver-1

gcloud app browse

Modify the HTML Content and Deploy Version 2

echo "Hello world from Intellipaat" > index.html

Deploy as version ver-2.

gcloud app deploy --version=ver-2

Goto browser and paste **<https://ver-1.nagesha-gcp-project-1.appspot.com>**

Load Testing the Instance

Create a test instance.

gcloud compute instances create load-test-instance --zone=us-central1-a --machine-type=f1-micro

SSH into the instance.

gcloud compute ssh load-test-instance --zone=us-central1-a

Install apache-utils.

sudo apt-get update

sudo apt-get install apache2-utils

Load test with ab (Apache Benchmark).

ab -n 5000 -c 100 <https://ver-2.nagesha-gcp-project-1.appspot.com/>