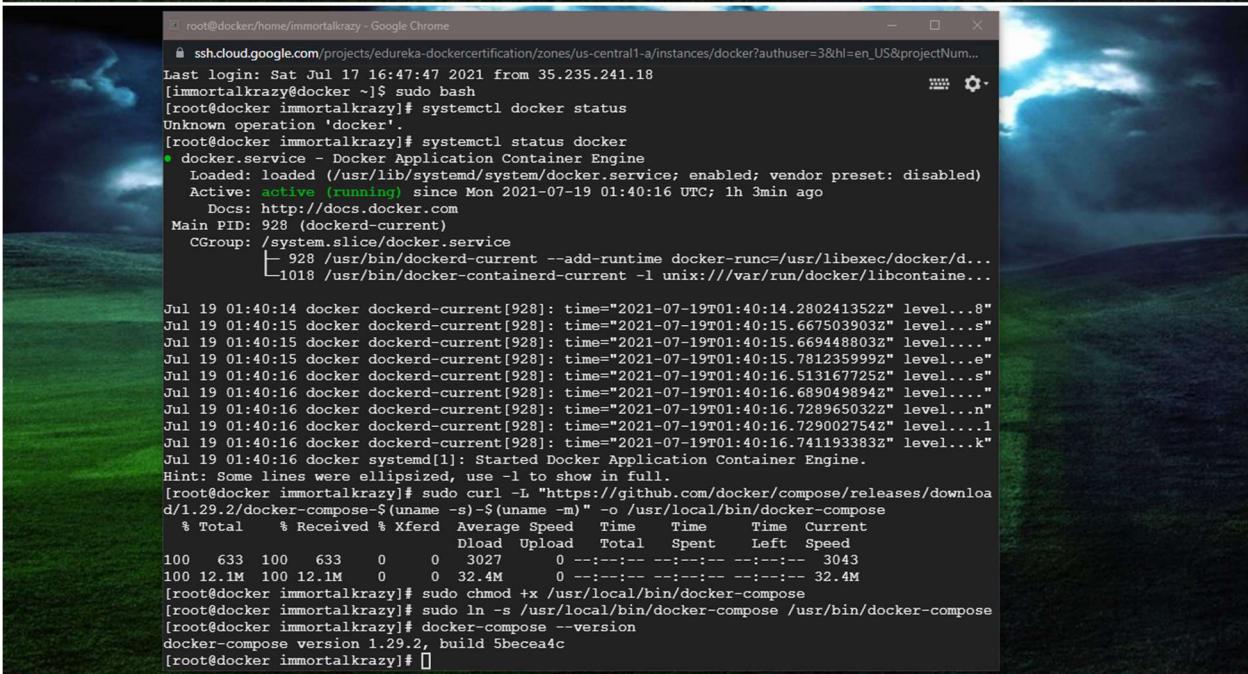


```

root@docker/home/immortalkrazy - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker?authuser=3&hl=en_US&projectNum...
Connected, host fingerprint: ssh-rsa 0 FF1E7:78:2C:36:8B:33:73:94:00:9D:3E:52:01
:42:F8:AB:30:52:64:EB:0a:93:38:27:70:B9:D2:A4:AD:3D:A5
Last login: Sat Jul 17 16:47:47 2021 from 35.235.241.18
[immortalkrazy@docker ~]$ sudo bash
[root@docker immortalkrazy]# systemctl docker status
Unknown operation 'docker'.
[root@docker immortalkrazy]# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor preset: disabled)
     Active: active (running) since Mon 2021-07-19 01:40:16 UTC; 1h 3min ago
       Docs: http://docs.docker.com
      Main PID: 928 (dockerd-current)
         CGroup: /system.slice/docker.service
             └─ 928 /usr/bin/dockerd-current --add-runtime docker-runc=/usr/libexec/docker/d...
               ├ 1018 /usr/bin/docker-containerd-current -l unix:///var/run/docker/libcontaine...
               ...
Jul 19 01:40:14 docker dockerd-current[928]: time="2021-07-19T01:40:14.280241352Z" level...8"
Jul 19 01:40:15 docker dockerd-current[928]: time="2021-07-19T01:40:15.667503903Z" level...s"
Jul 19 01:40:15 docker dockerd-current[928]: time="2021-07-19T01:40:15.669448803Z" level...."
Jul 19 01:40:15 docker dockerd-current[928]: time="2021-07-19T01:40:15.781235999Z" level...e"
Jul 19 01:40:16 docker dockerd-current[928]: time="2021-07-19T01:40:16.513167725Z" level...s"
Jul 19 01:40:16 docker dockerd-current[928]: time="2021-07-19T01:40:16.689049894Z" level...."
Jul 19 01:40:16 docker dockerd-current[928]: time="2021-07-19T01:40:16.728965032Z" level...n"
Jul 19 01:40:16 docker dockerd-current[928]: time="2021-07-19T01:40:16.729002754Z" level....1
Jul 19 01:40:16 docker dockerd-current[928]: time="2021-07-19T01:40:16.741193383Z" level...k"
Jul 19 01:40:16 docker systemd[1]: Started Docker Application Container Engine.
Hint: Some lines were ellipsized, use -l to show in full.
[root@docker immortalkrazy]#

```



```

root@docker/home/immortalkrazy - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker?authuser=3&hl=en_US&projectNum...
Last login: Sat Jul 17 16:47:47 2021 from 35.235.241.18
[immortalkrazy@docker ~]$ sudo bash
[root@docker immortalkrazy]# systemctl docker status
Unknown operation 'docker'.
[root@docker immortalkrazy]# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor preset: disabled)
     Active: active (running) since Mon 2021-07-19 01:40:16 UTC; 1h 3min ago
       Docs: http://docs.docker.com
      Main PID: 928 (dockerd-current)
         CGroup: /system.slice/docker.service
             └─ 928 /usr/bin/dockerd-current --add-runtime docker-runc=/usr/libexec/docker/d...
               ├ 1018 /usr/bin/docker-containerd-current -l unix:///var/run/docker/libcontaine...
               ...
Jul 19 01:40:14 docker dockerd-current[928]: time="2021-07-19T01:40:14.280241352Z" level...8"
Jul 19 01:40:15 docker dockerd-current[928]: time="2021-07-19T01:40:15.667503903Z" level...s"
Jul 19 01:40:15 docker dockerd-current[928]: time="2021-07-19T01:40:15.669448803Z" level...."
Jul 19 01:40:15 docker dockerd-current[928]: time="2021-07-19T01:40:15.781235999Z" level...e"
Jul 19 01:40:16 docker dockerd-current[928]: time="2021-07-19T01:40:16.513167725Z" level...s"
Jul 19 01:40:16 docker dockerd-current[928]: time="2021-07-19T01:40:16.689049894Z" level...."
Jul 19 01:40:16 docker dockerd-current[928]: time="2021-07-19T01:40:16.728965032Z" level...n"
Jul 19 01:40:16 docker dockerd-current[928]: time="2021-07-19T01:40:16.729002754Z" level....1
Jul 19 01:40:16 docker dockerd-current[928]: time="2021-07-19T01:40:16.741193383Z" level...k"
Jul 19 01:40:16 docker systemd[1]: Started Docker Application Container Engine.
Hint: Some lines were ellipsized, use -l to show in full.
[root@docker immortalkrazy]# sudo curl -L "https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
  % Total    % Received % Xferd  Average Speed   Time   Time  Current
     0     0    0     0   0:00:00.00 0:00:00.00 0:00:00.00
  100  633  100  633    0     0  3027      0  --:--:-- --:--:-- 3043
  100 12.1M  100 12.1M   0     0  32.4M      0  --:--:-- --:--:-- 32.4M
[root@docker immortalkrazy]# sudo chmod +x /usr/local/bin/docker-compose
[root@docker immortalkrazy]# sudo ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose
[root@docker immortalkrazy]# docker-compose --version
docker-compose version 1.29.2, build 5becea4c
[root@docker immortalkrazy]#

```



```

root@docker-m1:~ - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-w2?authuser=3&hl=en_US&projectName=immortalkrazy
[root@docker-m1 immortalkrazy]# docker swarm init
Swarm initialized: current node (t0rgemmlshhk) is now a manager.

To add a worker to this swarm, run the following command:
  docker swarm join \
    --token SWMTKN-1-2io0rhfugf12ugszfc8t4n98ago2cwnxaelfocy9m41jqw5dxy-7vmnpfeuw6gyfr0dh9sj91as2 \
    10.128.0.15:2377
This node joined a swarm as a worker.

[root@docker-m1 immortalkrazy]# [REDACTED]

To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.

[root@docker-m1 immortalkrazy]# [REDACTED]

root@docker-w2:~ - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-w2?authuser=3&hl=en_US&projectName=immortalkrazy
[root@docker-w2 immortalkrazy]# docker swarm join \
--token SWMTKN-1-2io0rhfugf12ugszfc8t4n98ago2cwnxaelfocy9m41jqw5dxy-7vmnpfeuw6gyfr0dh9sj91as2 \
10.128.0.15:2377
This node joined a swarm as a worker.

[root@docker-w2 immortalkrazy]# [REDACTED]

root@docker-m1:~ - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&projectName=immortalkrazy
[REDACTED]
To add a worker to this swarm, run the following command:
  docker swarm join \
    --token SWMTKN-1-2io0rhfugf12ugszfc8t4n98ago2cwnxaelfocy9m41jqw5dxy-7vmnpfeuw6gyfr0dh9sj91as2 \
    10.128.0.15:2377
To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.

[root@docker-m1 immortalkrazy]# docker service create --name svc1 --replicas 5 -p 1234:80 nginx
[REDACTED]
00a4apswl8nnodz4yf8xkqpps
[root@docker-m1 immortalkrazy]# docker service ls
ID          NAME      MODE      REPLICAS  IMAGE
00a4apswl8nnodz4yf8xkqpps      svc1     replicated  5/5  nginx:latest
[root@docker-m1 immortalkrazy]# docker service ps
"docker service ps" requires exactly 1 argument(s).
See 'docker service ps --help'.

Usage: docker service ps [OPTIONS] SERVICE

List the tasks of a service
[root@docker-m1 immortalkrazy]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
378235f116d6        nginx@sha256:353c20f74d9b6aee359f30s8e4f69c3d7eaea2f610681c4a95849a2fd7c497f9   "/docker-entrypoint..."   18 seconds ago    Up 16 seconds    80/tcp               svc1.3.iklctoev7o5n3vh5n19ss5elw
[root@docker-m1 immortalkrazy]# docker node ls
ID          HOSTNAME  STATUS  AVAILABILITY  MANAGER STATUS
slwpg9zsgwalba55zmj8lf8js  docker-w1  Ready  Active
sv213ksrj39ujvn1qznz2bilq  docker-w2  Ready  Active
t0rgemmlshhk9acx9zcfcgheo *  docker-m1  Ready  Active      Leader
[root@docker-m1 immortalkrazy]# [REDACTED]

```

```

root@docker-m1:~# ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&proj...
[root@docker-m1 immortalkrazy]# docker service ps svc1
ID          NAME      IMAGE      NODE      DESIRED STATE  CURRENT STATE      PORTS
83fs1vk6w26j  svc1.1  nginx:latest  docker-w1  Running        Running 11 minutes ago
thuu2mjuanlx  svc1.2  nginx:latest  docker-w2  Running        Running 11 minutes ago
iklctoev7o5n  svc1.3  nginx:latest  docker-ml  Running        Running 11 minutes ago
dczptihigvbm  svc1.4  nginx:latest  docker-w1  Running        Running 11 minutes ago
cyu7y3qq3rd7  svc1.5  nginx:latest  docker-w2  Running        Running 11 minutes ago
[root@docker-m1 immortalkrazy]# 

root@docker-m1:~# ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&proj...
join \o2cwnxaelfoc9m41jqw5dxy-7vmnpfeuw6gyfr0dh9s
entral1-a/instances/docker-w2?authuser=3&hl=en_US&proj...
join \o2cwnxaelfoc9m41jqw5dxy-7vmnpfeuw6gyfr0dh9s

root@docker-m1:~# ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&proj...
[root@docker-m1 immortalkrazy]# docker service ps svc1
ID          NAME      IMAGE      NODE      DESIRED STATE  CURRENT STATE      PORTS
83fs1vk6w26j  svc1.1  nginx:latest  docker-w1  Running        Running 11 minutes ago
thuu2mjuanlx  svc1.2  nginx:latest  docker-w2  Running        Running 11 minutes ago
iklctoev7o5n  svc1.3  nginx:latest  docker-ml  Running        Running 11 minutes ago
dczptihigvbm  svc1.4  nginx:latest  docker-w1  Running        Running 11 minutes ago
cyu7y3qq3rd7  svc1.5  nginx:latest  docker-w2  Running        Running 11 minutes ago
[root@docker-m1 immortalkrazy]# docker service create --name svc2 --mode global -p 1235:80 nginx
inx
vps3wbcak7lurakbzjocq6un2
[root@docker-m1 immortalkrazy]# docker service ps
"docker service ps" requires exactly 1 argument(s).
See 'docker service ps --help'.

Usage: docker service ps [OPTIONS] SERVICE

List the tasks of a service
[root@docker-m1 immortalkrazy]# docker service ls
ID          NAME      MODE      REPLICAS  IMAGE
00a4apswl8nn  svc1  replicated  5/5      nginx:latest
vps3wbcak7lu  svc2  global     3/3      nginx:latest
[root@docker-m1 immortalkrazy]# 

```

```
root@docker-m1:/home/immortalkrazy - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&proj...
[root@docker-m1 immortalkrazy]# docker service ps svcl
ID          NAME      IMAGE      NODE      DESIRED STATE  CURRENT STATE      PORTS
33fslvk6w26j  svc1.1  nginx:latest  docker-w1  Running        Running 11 minutes ago
thuu2mjuanlx  svc1.2  nginx:latest  docker-w2  Running        Running 11 minutes ago
iklctoev7o5n  svc1.3  nginx:latest  docker-m1  Running        Running 11 minutes ago
dczptihigvbm  svc1.4  nginx:latest  docker-w1  Running        Running 11 minutes ago
cyu7y3gq3rd7  svc1.5  nginx:latest  docker-w2  Running        Running 11 minutes ago
[root@docker-m1 immortalkrazy]# docker service create --name svc2 --mode global -p 1235:80 nginx
inx
vps3wbcak7lurakbzjocq6un2
[root@docker-m1 immortalkrazy]# docker service ps
"docker service ps" requires exactly 1 argument(s).
See 'docker service ps --help'.

Usage: docker service ps [OPTIONS] SERVICE

List the tasks of a service
[root@docker-m1 immortalkrazy]# docker service ls
ID          NAME      MODE      REPLICAS  IMAGE
00a4apsw18nn  svc1  replicated  5/5      nginx:latest
vps3wbcak7lu  svc2  global       3/3      nginx:latest
[root@docker-m1 immortalkrazy]# docker network create -d overlay my-overlay
iygev2vxz706s37elwn2xb9r
[root@docker-m1 immortalkrazy]# docker network ls
NETWORK ID      NAME      DRIVER      SCOPE
70fc6dea9145  bridge    bridge      local
3359313db588  docker_gwbridge  bridge      local
9c416d5a48af  host      host      local
kqni0elwrbbd  ingress   overlay    swarm
iygev2vxz70    my-overlay  overlay    swarm
9abc4a8e1d3c  none      null      local
[root@docker-m1 immortalkrazy]# ■

root@docker-m1:/home/immortalkrazy - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&projectNumber=753064402251&useAdminProxy=true
[root@docker-m1 immortalkrazy]# docker service create --name my-app --network my-overlay --replicas 5 --publish 8080:80 nginx
mnkdufbqxijzumg6erwdth37w
[root@docker-m1 immortalkrazy]# docker service ls
ID          NAME      MODE      REPLICAS  IMAGE
00a4apsw18nn  svc1  replicated  5/5      nginx:latest
10bvstvk5mj6  my-overlay-app  replicated  0/1      replicas
mnkdufbqxijz  my-app     replicated  5/5      nginx:latest
oifc8yp4gc2p  my-net     replicated  0/1      replicas
vps3wbcak7lu  svc2  global       3/3      nginx:latest
[root@docker-m1 immortalkrazy]# ■
```

root@docker-m1:/home/immortalkrazy - Google Chrome

ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&projectNumber=753064402251&useAdminProxy=true

```
        "Resources": {
            "Limits": {},
            "Reservations": {}
        },
        "RestartPolicy": {
            "Condition": "any",
            "MaxAttempts": 0
        },
        "Placement": {},
        "Networks": [
            {
                "Target": "iyqev2vxz706s37elwn2xb9r"
            }
        ],
        "ForceUpdate": 0
    },
    "Mode": {
        "Replicated": {
            "Replicas": 5
        }
    },
    "UpdateConfig": {
        "Parallelism": 1,
        "FailureAction": "pause",
        "MaxFailureRatio": 0
    },
    "Networks": [
        {
            "Target": "my-overlay"
        }
    ],
    "EndpointSpec": {
        "Mode": "vip",
        "Ports": [
            {
                "Protocol": "tcp",
                "TargetPort": 80
            }
        ]
    }
}
```

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Kubernetes Engine Kubernetes clusters + CREATE ⏪ REFRESH

Clusters Workloads Services & Ingress Applications Configuration Storage Object Browser Migrate to containers Config Management Marketplace Release Notes

Kubernetes Engine

Kubernetes clusters

Containers package an application so it can easily be deployed to run in its own isolated environment. Containers are run on Kubernetes clusters. [Learn more](#)

CREATE DEPLOY CONTAINER TAKE THE QUICKSTART

Create a Kubernetes cluster

Cluster basics

The new cluster will be created with the name, version, and in the location you specify here. After the cluster is created, name and location can't be changed.

Name: cluster-1

Location type: Zonal

Zone: us-central1-c

Control plane version: 1.20-gke.900 (default)

Cluster set-up guides:

- To experiment with an affordable cluster, try **My first cluster** in the Cluster set-up guides
- An affordable cluster to experiment with **Cost-optimized cluster**

Cluster summary

Cluster set-up guides: You didn't go through any set-up guides.

Immutable properties: These properties can't be changed after creation.

Name	cluster-1
Location type	Zonal
Zone	us-central1-c
Private cluster	Disabled
Network	default

Cost: You will be billed for 3 nodes.

Beta properties: You haven't selected any properties in beta.

Limitations: Pod address range limits the maximum size of the cluster. [Learn more](#)

Node pools:

- default-pool

All properties:

Name	cluster-1
Location type	Zonal
Zone	us-central1-c
Default node zones	us-central1-c (default)
Release channel	Regular channel
Version	1.20-gke.900
Maintenance window	Disabled

Create a Kubernetes cluster

Cluster basics

The new cluster will be created with the name, version, and in the location you specify here. After the cluster is created, name and location can't be changed.

Name: springapp

Location type: Zonal

Zone: us-central1-c

Control plane version: 1.20-gke.900 (default)

Cluster set-up guides:

- To experiment with an affordable cluster, try **My first cluster** in the Cluster set-up guides
- An affordable cluster to experiment with **Cost-optimized cluster**

Cluster summary

Cluster set-up guides: You didn't go through any set-up guides.

Immutable properties: These properties can't be changed after creation.

Name	springapp
Location type	Zonal
Zone	us-central1-c
Private cluster	Disabled
Network	default

Cost: You will be billed for 3 nodes.

Beta properties: You haven't selected any properties in beta.

Limitations: Pod address range limits the maximum size of the cluster. [Learn more](#)

Node pools:

- default-pool

All properties:

Name	springapp
Location type	Zonal
Zone	us-central1-c
Default node zones	us-central1-c (default)
Release channel	Regular channel
Version	1.20-gke.900
Maintenance window	Disabled

Kubernetes Engine

Kubernetes clusters

Clusters

Status	Name	Location	Number of nodes	Total vCPUs	Total memory	Notifications	Labels
Green	springapp	us-central1-c	3	6	12 GB	-	

No clusters selected

Labels help organize your resources (e.g., cost_center=sales or env=prod). [Learn more](#)

Operations: HIDE INFO PANEL, LEARN

```
immortalkrazy@cloudshell:~ (edureka-dockercertification)$ kubectl get nodes -o wide
NAME           STATUS   ROLES      AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE
gke-springapp-default-pool-b39336a5-dp26   Ready    <none>    27m   v1.20.8-gke.900  10.128.0.24  34.72.94.118  Container-Optimized OS f
rom Google  5.4.104+  containerd://1.4.3
gke-springapp-default-pool-b39336a5-nqx5   Ready    <none>    27m   v1.20.8-gke.900  10.128.0.22  35.184.97.212  Container-Optimized OS f
rom Google  5.4.104+  containerd://1.4.3
gke-springapp-default-pool-b39336a5-zkn3   Ready    <none>    27m   v1.20.8-gke.900  10.128.0.23  34.133.5.85   Container-Optimized OS f
rom Google  5.4.104+  containerd://1.4.3
immortalkrazy@cloudshell:~ (edureka-dockercertification)$

immortalkrazy@cloudshell:~ (edureka-dockercertification)$ kubectl get nodes -o wide
NAME           STATUS   ROLES      AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE
gke-springapp-default-pool-b39336a5-dp26   Ready    <none>    27m   v1.20.8-gke.900  10.128.0.24  34.72.94.118  Container-Optimized OS f
rom Google  5.4.104+  containerd://1.4.3
gke-springapp-default-pool-b39336a5-nqx5   Ready    <none>    27m   v1.20.8-gke.900  10.128.0.22  35.184.97.212  Container-Optimized OS f
rom Google  5.4.104+  containerd://1.4.3
gke-springapp-default-pool-b39336a5-zkn3   Ready    <none>    27m   v1.20.8-gke.900  10.128.0.23  34.133.5.85   Container-Optimized OS f
rom Google  5.4.104+  containerd://1.4.3
immortalkrazy@cloudshell:~ (edureka-dockercertification)$ kubectl get pods -o wide
NAME    READY  STATUS    RESTARTS   AGE   IP          NODE      NOMINATED NODE  READINESS GATES
mypod  1/1    Running   0          2m47s  10.60.0.3  gke-springapp-default-pool-b39336a5-nqx5  <none>        <none>
immortalkrazy@cloudshell:~ (edureka-dockercertification)$
```

Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to **edureka-dockercertification**.
Use "gcloud config set project [PROJECT ID]" to change to a different project.

```
immortalkrazy@cloudshell:~ (edureka-dockercertification) $ kubectl get pods -o wide
NAME          READY   STATUS    RESTARTS   AGE   IP           NOMINATED NODE   READINESS GATES
mypod         1/1     Running   0          10m   10.60.0.3   gke-springapp-default-pool-b39336a5-npx5   <none>        <none>
immortalkrazy@cloudshell:~ (edureka-dockercertification) $ kubectl get nodes -o wide
NAME          STATUS   ROLES   AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE   KERNEL-VERSION   CONTAINER-RUNTIME
gke-springapp-default-pool-b39336a5-dp26   Ready    <none>   10m   v1.20.8-gke.900   10.128.0.24   34.72.94.118   Container-Optimized OS from Google   5.4.104+   containerd://1.4.3
gke-springapp-default-pool-b39336a5-npx5   Ready    <none>   10m   v1.20.8-gke.900   10.128.0.22   35.184.97.212   Container-Optimized OS from Google   5.4.104+   containerd://1.4.3
gke-springapp-default-pool-b39336a5-zkn3   Ready    <none>   10m   v1.20.8-gke.900   10.128.0.23   34.133.5.85    Container-Optimized OS from Google   5.4.104+   containerd://1.4.3
immortalkrazy@cloudshell:~ (edureka-dockercertification) $ ls -la
total 0
drwxr-xr-x 9 immortalkrazy immortalkrazy 4096 Aug 14 05:00 .
drwxr-xr-x 4 root          root          4096 Jun 27 02:43 ..
-rw----- 1 immortalkrazy immortalkrazy 4978 Aug 22 19:34 .bash_history
-rw-r--r-- 1 immortalkrazy immortalkrazy 220 Apr 18 2019 .bash_logout
-rw-r--r-- 1 immortalkrazy immortalkrazy 3056 Jun 27 02:43 .bashrc
-rw-r--r-- 1 immortalkrazy immortalkrazy 131 Aug 14 05:35 clusterPod.yaml
drwxr-xr-x 3 immortalkrazy immortalkrazy 4096 Aug 7 04:25 cache
drwxr-xr-x 2 immortalkrazy immortalkrazy 4096 Aug 7 04:25 .cloudcode
-rw-r--r-- 1 immortalkrazy immortalkrazy 209 Aug 14 03:24 clusterIP.yaml
-rw-r--r-- 1 immortalkrazy immortalkrazy 177 Aug 14 03:16 cluster_pod.yaml
drwxr-xr-x 4 immortalkrazy immortalkrazy 4096 Aug 7 04:25 .config
drwxr-xr-x 3 immortalkrazy immortalkrazy 4096 Jun 27 02:43 .docker
drwxr-xr-x 3 immortalkrazy immortalkrazy 4096 Aug 22 19:34 .kube
-rw-r--r-- 1 immortalkrazy immortalkrazy 204 Aug 14 05:00 nodeport.yaml
-rw-r--r-- 1 immortalkrazy immortalkrazy 807 Apr 18 2019 .profile
-rw-r--r-- 1 immortalkrazy immortalkrazy 913 Aug 22 19:33 README-cloudshell.txt
-rw-r--r-- 1 immortalkrazy immortalkrazy 27684 Aug 14 02:43 test.txt
drwxr-xr-x 3 immortalkrazy immortalkrazy 4096 Aug 7 04:25 .thrift
-rw-r--r-- 1 immortalkrazy immortalkrazy 8656 Aug 14 05:00 .yamlinfo
drwxr-xr-x 3 immortalkrazy immortalkrazy 4096 Aug 7 04:25 .yaml
immortalkrazy@cloudshell:~ (edureka-dockercertification) $ vi deployment.yaml
immortalkrazy@cloudshell:~ (edureka-dockercertification) $ nano deployment.yaml
immortalkrazy@cloudshell:~ (edureka-dockercertification) $ nano deployment.yaml
immortalkrazy@cloudshell:~ (edureka-dockercertification) $ nano deployment.yaml
immortalkrazy@cloudshell:~ (edureka-dockercertification) $ deployment created
deployment.apps/nginx-deployment created
immortalkrazy@cloudshell:~ (edureka-dockercertification) $ kubectl get nodes -o wide
NAME          STATUS   ROLES   AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE   KERNEL-VERSION   CONTAINER-RUNTIME
gke-springapp-default-pool-b39336a5-dp26   Ready    <none>   10m   v1.20.8-gke.900   10.128.0.24   34.72.94.118   Container-Optimized OS from Google   5.4.104+   containerd://1.4.3
gke-springapp-default-pool-b39336a5-npx5   Ready    <none>   10m   v1.20.8-gke.900   10.128.0.22   35.184.97.212   Container-Optimized OS from Google   5.4.104+   containerd://1.4.3
gke-springapp-default-pool-b39336a5-zkn3   Ready    <none>   10m   v1.20.8-gke.900   10.128.0.23   34.133.5.85    Container-Optimized OS from Google   5.4.104+   containerd://1.4.3
immortalkrazy@cloudshell:~ (edureka-dockercertification) $ kubectl get pods -o wide
NAME          READY   STATUS    RESTARTS   AGE   IP           NODE           NOMINATED NODE   READINESS GATES
mypod         1/1     Running   0          84m   10.60.0.3   gke-springapp-default-pool-b39336a5-npx5   <none>        <none>
nginx-deployment-7848d4b86f-ftnfn  1/1     Running   0          18s   10.60.2.3   gke-springapp-default-pool-b39336a5-dp26   <none>        <none>
nginx-deployment-7848d4b86f-h88kh  1/1     Running   0          18s   10.60.2.4   gke-springapp-default-pool-b39336a5-dp26   <none>        <none>
nginx-deployment-7848d4b86f-sdd88  1/1     Running   0          18s   10.60.0.4   gke-springapp-default-pool-b39336a5-npx5   <none>        <none>
immortalkrazy@cloudshell:~ (edureka-dockercertification) $ vi deployment.yaml
immortalkrazy@cloudshell:~ (edureka-dockercertification) $
```

root@docker:/edureka/springApp - Google Chrome

```
[root@docker springApp]# cat compose.yaml
cat: compose.yaml: No such file or directory
[root@docker springApp]# cat compose.yaml
version: '3'
services:
  services:
    springbootapp:
      image: immortalkrazy/springapp:latest
      container_name: springboot
      ports:
        - 8080:8080
      depends_on:
        - mongo
      restart: on-failure
    mongo:
      image: lerndevops/mongo
      container_name: springboot-mongo
      ports:
        - 27017:27017
      volumes:
        - /home/compose/data:/root/edureka/springApp/data/db
        - /home/compose/data-bkp:/root/edureka/springApp/data/bkp
      restart: always

[root@docker springApp]#
```

1-a/instances/docker-m1?authuser=3&hl=en_US&projectNum...

```
:26:94:31:85:B5:94:30:89:16
3
0
```

The image shows two terminal windows side-by-side. The left window displays the contents of a Dockerfile, and the right window shows the output of a 'docker build' command.

Dockerfile Content:

```
root@docker-m1:~/edureka/dockerProjApp/forethought-app - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&project...
root@docker springApp]# [root@docker-m1 forethought-app]# ls -la
total 48
drwxr-xr-x. 5 root root 176 Jul 25 03:47 .
drwxr-xr-x. 4 root root 41 Jul 24 21:39 ..
-rw-r--r--. 1 root root 124 Jul 25 03:47 Dockerfile
-rw-r--r--. 1 root root 1134 Jul 24 21:39 index.js
drwxr-xr-x. 52 root root 4096 Jul 24 21:39 node_modules
-rw-r--r--. 1 root root 11528 Jul 24 21:39 nodesource_setup.sh
-rw-r--r--. 1 root root 349 Jul 24 21:39 package.json
-rw-r--r--. 1 root root 14156 Jul 24 21:39 package-lock.json
drwxr-xr-x. 2 root root 23 Jul 24 21:39 public
-rw-r--r--. 1 root root 858 Jul 24 21:39 README.MD
drwxr-xr-x. 2 root root 23 Jul 24 21:39 views
[root@docker-m1 forethought-app]# cat Dockerfile
FROM node:latest

WORKDIR /app

COPY package*.json /app/

RUN npm install

COPY . .

EXPOSE 8080

CMD ["node", "index.js"]

[root@docker-m1 forethought-app]#
```

Docker Build Log:

```
root@docker-m1:~/edureka/dockerProjApp/forethought-app - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&project...
total 48
drwxr-xr-x. 5 root root 176 Jul 25 03:47 .
drwxr-xr-x. 4 root root 41 Jul 24 21:39 ..
-rw-r--r--. 1 root root 124 Jul 25 03:47 Dockerfile
-rw-r--r--. 1 root root 1134 Jul 24 21:39 index.js
drwxr-xr-x. 52 root root 4096 Jul 24 21:39 node_modules
-rw-r--r--. 1 root root 11528 Jul 24 21:39 nodesource_setup.sh
-rw-r--r--. 1 root root 349 Jul 24 21:39 package.json
-rw-r--r--. 1 root root 14156 Jul 24 21:39 package-lock.json
drwxr-xr-x. 2 root root 23 Jul 24 21:39 public
-rw-r--r--. 1 root root 858 Jul 24 21:39 README.MD
drwxr-xr-x. 2 root root 23 Jul 24 21:39 views
[root@docker-m1 forethought-app]# docker build -t certapp .
Sending build context to Docker daemon 2.115 MB
Step 1/7 : FROM node:latest
--> 8f1b7f0dfc2f
Step 2/7 : WORKDIR /app
--> Using cache
--> cf4fb419ed49
Step 3/7 : COPY package*.json /app/
--> Using cache
--> 873dcb102a64
Step 4/7 : RUN npm install
--> Using cache
--> 3ac6ff98bb8b66
Step 5/7 : COPY . .
--> Using cache
--> d06d358e090b
Step 6/7 : EXPOSE 8080
--> Using cache
--> dd42cf9f1e2c
Step 7/7 : CMD node index.js
--> Using cache
--> 6ba960705442
Successfully built 6ba960705442
[root@docker-m1 forethought-app]#
```

```

root@docker-m1:~/edureka/dockerProjApp/forethought-app - Google Chrome
[ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&project...]
drwxr-xr-x. 52 root root 4096 Jul 24 21:39 node_modules
-rw-r--r--. 1 root root 11528 Jul 24 21:39 nodemodule_setup.sh
-rw-r--r--. 1 root root 349 Jul 24 21:39 package.json
-rw-r--r--. 1 root root 14156 Jul 24 21:39 package-lock.json
drwxr-xr-x. 2 root root 23 Jul 24 21:39 public
-rw-r--r--. 1 root root 858 Jul 24 21:39 README.MD
drwxr-xr-x. 2 root root 23 Jul 24 21:39 views
[root@docker-m1 forethought-app]# docker build -t certapp .
Sending build context to Docker daemon 2.115 MB
Step 1/7 : FROM node:latest
--> 8f1b7f0dfc2f
Step 2/7 : WORKDIR /app
--> Using cache
--> cf4fb419ed49
Step 3/7 : COPY package*.json /app/
--> Using cache
--> 873dc102a64
Step 4/7 : RUN npm install
--> Using cache
--> 3ac6f98b8b66
Step 5/7 : COPY . .
--> Using cache
--> d06d358e090b
Step 6/7 : EXPOSE 8080
--> Using cache
--> dd42cf9f1e2c
Step 7/7 : CMD node index.js
--> Using cache
--> 6ba960705442
Successfully built 6ba960705442
[root@docker-m1 forethought-app]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
certapp latest 6ba960705442 4 weeks ago 913 MB
node-app latest 6ba960705442 4 weeks ago 913 MB
docker.io/node latest 8f1b7f0dfc2f 4 weeks ago 907 MB
[root@docker-m1 forethought-app]#

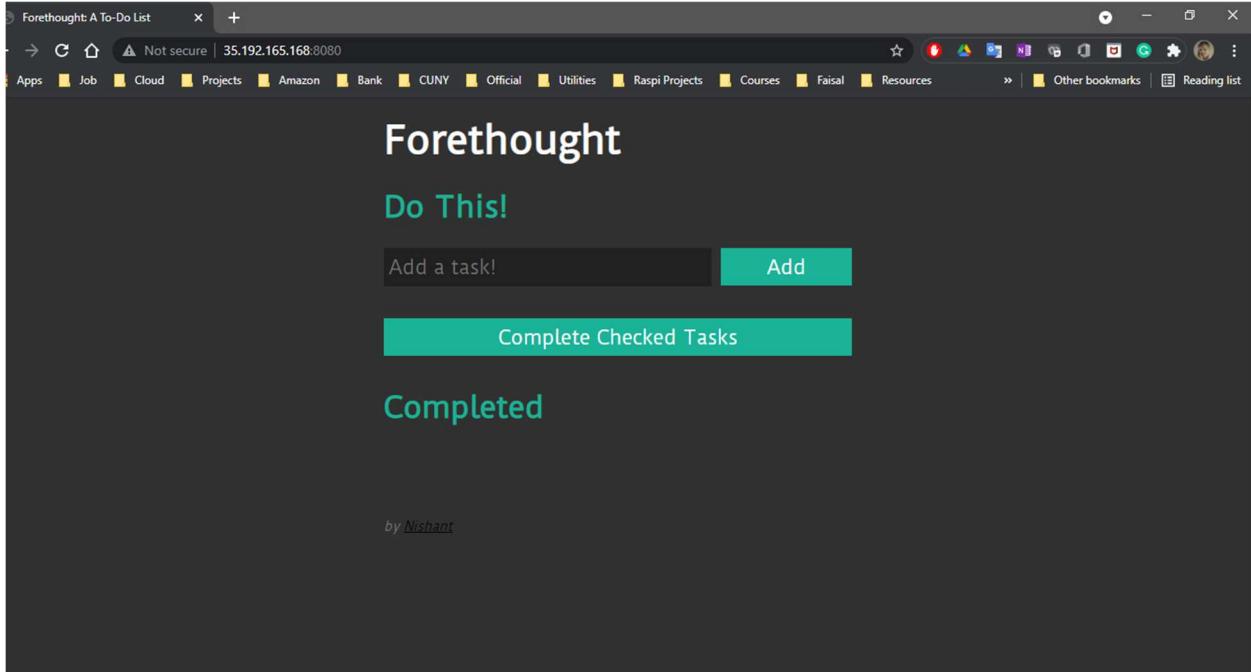
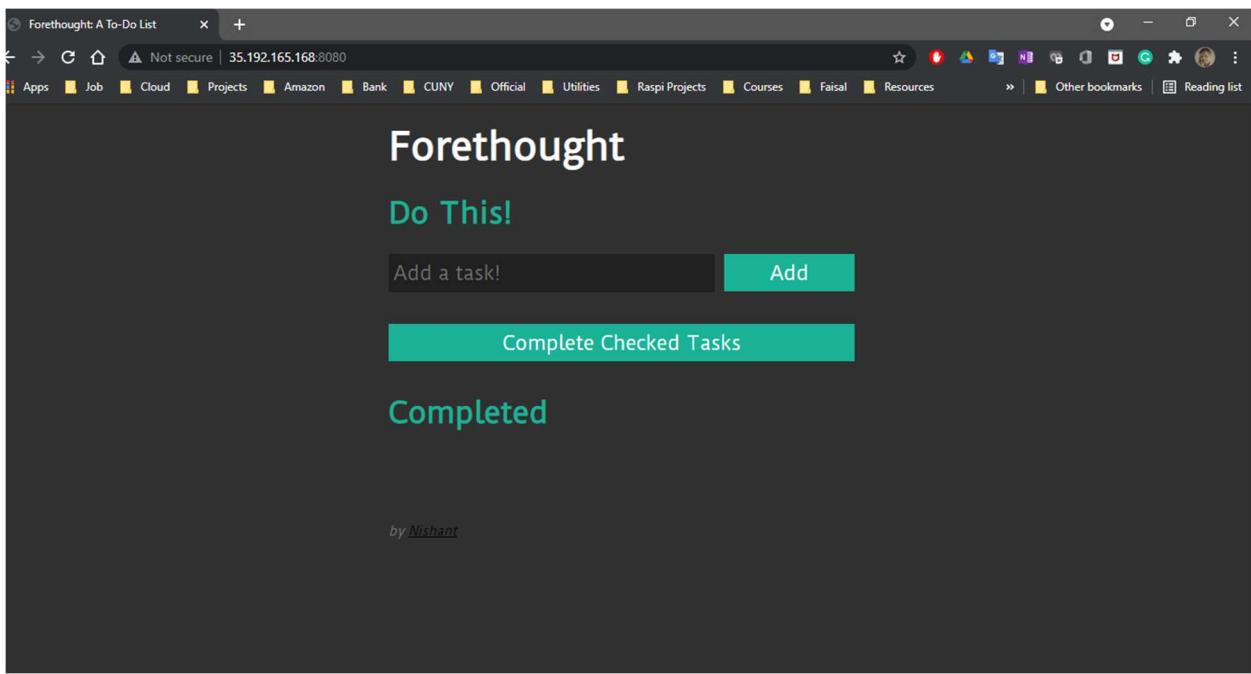
```



```

root@docker-m1:~/edureka/dockerProjApp/forethought-app - Google Chrome
[ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&project...]
Step 1/7 : FROM node:latest
--> 8f1b7f0dfc2f
Step 2/7 : WORKDIR /app
--> Using cache
--> cf4fb419ed49
Step 3/7 : COPY package*.json /app/
--> Using cache
--> 873dc102a64
Step 4/7 : RUN npm install
--> Using cache
--> 3ac6f98b8b66
Step 5/7 : COPY . .
--> Using cache
--> d06d358e090b
Step 6/7 : EXPOSE 8080
--> Using cache
--> dd42cf9f1e2c
Step 7/7 : CMD node index.js
--> Using cache
--> 6ba960705442
Successfully built 6ba960705442
[root@docker-m1 forethought-app]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
certapp latest 6ba960705442 4 weeks ago 913 MB
node-app latest 6ba960705442 4 weeks ago 913 MB
docker.io/node latest 8f1b7f0dfc2f 4 weeks ago 907 MB
[root@docker-m1 forethought-app]# docker run -itd --name run -p 8080:8080 node-app
72dca7a47608a8397da9ff6fd483b9034f644a3827b6cf75d8a6e0dd07cfb01c
[root@docker-m1 forethought-app]# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS
PORTS NAMES
72dca7a47608 node-app "docker-entrypoint..." 4 seconds ago Up 3 sec
ond8 0.0.0.0:8080->8080/tcp run
[root@docker-m1 forethought-app]# curl ifconfig.co
55.192.165.168
[root@docker-m1 forethought-app]#

```



```

root@docker-m1:~/edureka/dockerProjApp/forethought-app - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&projectNumber=753064402251&useAdminProxy=true&troubleshoot4005Enabled...
[root@docker-m1 forethought-app]# docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED             STATUS              PORTS               NAMES
72dca7a47608        node-app            "docker-entrypoint..."   2 minutes ago      Up 2 minutes       0.0.0.0:8080->8080/tcp   run
[root@docker-m1 forethought-app]# docker commit 72dca7a47608 forethought
sha256:ca7218eff3320c10bf03e4b0c9003ce0cd2598c29cc86936db3c60b6672b269a
[root@docker-m1 forethought-app]# docker exec -it 72dca7a47608 bash
root@72dca7a47608:/app# ls -la
total 48
drwxr-xr-x. 1 root root    176 Jul 25 03:49 .
drwxr-xr-x. 1 root root     6 Aug 22 20:28 ..
-rw-r--r--. 1 root root   124 Jul 25 03:47 Dockerfile
-rw-r--r--. 1 root root   858 Jul 24 21:39 README.MD
-rw-r--r--. 1 root root  1134 Jul 24 21:39 index.js
drwxr-xr-x. 1 root root  4096 Jul 24 21:39 node_modules
-rw-r--r--. 1 root root 11528 Jul 24 21:39 nodesource_setup.sh
-rw-r--r--. 1 root root 14156 Jul 24 21:39 package-lock.json
-rw-r--r--. 1 root root   349 Jul 24 21:39 package.json
drwxr-xr-x. 2 root root    23 Jul 24 21:39 public
drwxr-xr-x. 2 root root    23 Jul 24 21:39 views
root@72dca7a47608:/app# nano myTestFile.txt
bash: nano: command not found
root@72dca7a47608:/app# echo "This is a test file" > myTestFile.txt
root@72dca7a47608:/app# ls
Dockerfile README.MD index.js node_modules nodesource_setup.sh package-lock.json package.json public views
root@72dca7a47608:/app# cat myTestFile.txt
This is a test file
root@72dca7a47608:/app# [root@docker-m1 forethought-app]# docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED             STATUS              PORTS               NAMES
72dca7a47608        node-app            "docker-entrypoint..."   6 minutes ago      Up 6 minutes       0.0.0.0:8080->8080/tcp   run
[root@docker-m1 forethought-app]# docker commit 72dca7a47608 forethought
sha256:de429fb9d7a4c286c7dfca4ac79d24377b68ed9f38dcf9cf93ea42a98bcc15bc
[root@docker-m1 forethought-app]#

```



```

root@docker-m1:~/edureka/dockerProjApp/forethought-app - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&projectNumber=753064402251&useAdminProxy=true&troubleshoot4005Enabled...
[root@docker-m1 forethought-app]# docker build -t nodeapp .
Sending build context to Docker daemon 2.115 MB
Step 1/7 : FROM node:latest
Trying to pull repository docker.io/library/node ...
latest: Pulling from docker.io/library/node
lcfaf5c6f756: Pull complete
c4099a935a96: Pull complete
f6e2960d8365: Pull complete
dff4ee638592: Pull complete
2ce46ad6f244: Pull complete
5fdaf1f69c996: Pull complete
b084d682aa98: Pull complete
3ee73259434e: Pull complete
a2aacaa92485c: Pull complete
Digest: sha256:d75b1663c035a5e9ed48ad54041aff3067d6a66104d32d07901314e573393d2a
Status: Downloaded newer image for docker.io/node:latest
--> c66552d59c4b
Step 2/7 : WORKDIR /app

```


The screenshot shows a web browser window and a terminal window side-by-side.

Web Browser (Top):

- Title bar: Forethought: A To-Do List
- Address bar: Not secure | 35.192.165.168:8080
- Bookmark bar: Apps, Job, Cloud, Projects, Amazon, Bank, CUNY, Official, Utilities, Raspi Projects, Courses, Faisal, Resources, Other bookmarks, Reading list
- Main content:
 - # Forethought
 - ## Do This!
 - Add
 - Complete Checked Tasks
 - ## Completed
 - by Nishant*

Terminal (Bottom):

```
root@docker-m1:~/edureka/dockerProjApp/forethought-app - Google Chrome
[ ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&projectNumber=753064402251&useAdminProxy=true&troubleshoot4005Enabled...
[root@docker-m1 forethought-app]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
41ea42e5a012        nodeapp             "docker-entrypoint..."   About a minute ago   Up About a minute   0.0.0.0:8080->8080/tcp   fore
[root@docker-m1 forethought-app]# docker exec -it 41ea42e5a012 bash
root@41ea42e5a012:/app# ls -la
total 48
drwxr-xr-x. 1 root root    176 Aug 22 21:28 .
drwxr-xr-x. 1 root root      6 Aug 22 21:30 ..
-rw-r--r--. 1 root root    124 Jul 25 03:47 Dockerfile
-rw-r--r--. 1 root root    858 Jul 24 21:39 README.MD
-rw-r--r--. 1 root root   1134 Jul 24 21:39 index.js
drwxr-xr-x. 1 root root   4096 Jul 24 21:39 node_modules
-rw-r--r--. 1 root root   11528 Jul 24 21:39 nodesource_setup.sh
-rw-r--r--. 1 root root  14156 Jul 24 21:39 package-lock.json
-rw-r--r--. 1 root root     349 Jul 24 21:39 package.json
drwxr-xr-x. 2 root root     23 Jul 24 21:39 public
drwxr-xr-x. 2 root root     23 Jul 24 21:39 views
root@41ea42e5a012:/app# echo "Test File Created" > TestFile.txt
root@41ea42e5a012:/app# ls -la
total 52
drwxr-xr-x. 1 root root    26 Aug 22 21:33 .
drwxr-xr-x. 1 root root     17 Aug 22 21:30 ..
-rw-r--r--. 1 root root    124 Jul 25 03:47 Dockerfile
-rw-r--r--. 1 root root    858 Jul 24 21:39 README.MD
-rw-r--r--. 1 root root    18 Aug 22 21:33 TestFile.txt
-rw-r--r--. 1 root root   1134 Jul 24 21:39 index.js
drwxr-xr-x. 1 root root   4096 Jul 24 21:39 node_modules
-rw-r--r--. 1 root root   11528 Jul 24 21:39 nodesource_setup.sh
-rw-r--r--. 1 root root  14156 Jul 24 21:39 package-lock.json
-rw-r--r--. 1 root root     349 Jul 24 21:39 package.json
drwxr-xr-x. 2 root root     23 Jul 24 21:39 public
drwxr-xr-x. 2 root root     23 Jul 24 21:39 views
root@41ea42e5a012:/app# cat TestFile.txt
Test File Created
root@41ea42e5a012:/app#
```

Docker Hub +

hub.docker.com/repository/docker/immortalkrazy/docker-cert-app

Advanced image management

View preview

immortalkrazy / docker-cert-app

Docker Certification App

Last pushed: never

Docker commands

To push a new tag to this repository,

docker push immortalkrazy/docker-cert-app:tagname

Tags and Scans

VULNERABILITY SCANNING - DISABLED

Enable

This repository is empty. When it's not empty, you'll see a list of the most recent tags here.

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available on Pro and Team plans.

Upgrade to Pro Learn more

Readme

```
root@docker-m1:~/edureka/dockerProjApp/forethought-app - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&projectNumber=753064402251&useAdminProxy=true&troubleshoot4005Enabled...
[root@docker-m1 forethought-app]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
41ea42e5a012        nodeapp             "docker-entrypoint..."   4 minutes ago    Up 4 minutes          0.0.0.0:8080->8080/tcp   fore
[root@docker-m1 forethought-app]# docker commit 41ea42e5a012 docker-cert-app
sha256:18e7166f103064b999e276f61d85c117450403af76079e05c01c2c84344f3424
[root@docker-m1 forethought-app]# docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: immortalkrazy
Password:
Error response from daemon: Get https://registry-1.docker.io/v2/: unauthorized: incorrect username or password
[root@docker-m1 forethought-app]# docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: immortalkrazy
Password:
Login Succeeded
[root@docker-m1 forethought-app]# docker tag docker-cert-app:latest immortalkrazy/docker-cert-app:latest
[root@docker-m1 forethought-app]# docker push immortalkrazy/docker-cert-app:latest
The push refers to a repository [docker.io/immortalkrazy/docker-cert-app]
0d0567704ed4: Pushed
156a5a31ea93: Pushed
2fb134e1d7d3: Pushed
d1c748edb2be: Pushed
97b5050a9de6: Pushed
2dbf549f2ef8: Mounted from library/node
f052fd77574d: Mounted from library/node
b6ab708df445: Mounted from library/node
d602d5acd2f4: Mounted from library/node
0f81bf315889: Mounted from library/node
7d890913ab69: Mounted from library/node
1235daf38153: Mounted from library/node
62d14713f2e9: Mounted from library/node
c2ddclbc2645: Mounted from library/node
```

```

root@docker-m1:~/edureka/dockerProjApp/forethought-app - Google Chrome
ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&projectNumber=753064402251&useAdminProxy=true&troubleshoot4005Enabled...
[root@docker-m1 forethought-app]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
11ea42e5a012        nodeapp            "docker-entrypoint..."   4 minutes ago     Up 4 minutes      0.0.0.0:8080->8080/tcp   fore
[root@docker-m1 forethought-app]# docker commit 11ea42e5a012 docker-cert-app
sha256:18e7166f103064b999e276f61d85c117450403af76079e05c01c2c84344f3424
[root@docker-m1 forethought-app]# docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: immortalkrazy
Password:
Error response from daemon: Get https://registry-1.docker.io/v2/: unauthorized: incorrect username or password
[root@docker-m1 forethought-app]# docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: immortalkrazy
Password:
Login Succeeded
[root@docker-m1 forethought-app]# docker tag docker-cert-app:latest immortalkrazy/docker-cert-app:latest
[root@docker-m1 forethought-app]# docker push immortalkrazy/docker-cert-app:latest
The push refers to a repository [docker.io/immortalkrazy/docker-cert-app]
d0d567704ed4: Pushed
156a5a31ea93: Pushed
2fb134e1d7d3: Pushed
d1c748edb2be: Pushed
97b5050a9de6: Pushed
2dbf549f2ef8: Mounted from library/node
f052fd77574d: Mounted from library/node
b6ab708df445: Mounted from library/node
4602d5acd2f4: Mounted from library/node
0f81bf315889: Mounted from library/node
7d890913ab69: Mounted from library/node
1235daf38153: Mounted from library/node
62d14713f2e9: Mounted from library/node
c2ddc1bc2645: Mounted from library/node
latest: digest: sha256:208674561176eceac9b16f606550ee25c772a447258cc31bc2f69d761d657688 size: 3257
[root@docker-m1 forethought-app]#

```

immortalkrazy / docker-cert-app

Docker Certification App

Last pushed: a few seconds ago

Docker commands

To push a new tag to this repository,

docker push immortalkrazy/docker-cert-app:tagname

Tags and Scans

This repository contains 1 tag(s).

TAG	OS	PULLED	PUSHED
latest		a few seconds ago	a few second...

VULNERABILITY SCANNING - DISABLED

Enable

See all

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available on Pro and Team plans.

[Upgrade to Pro](#) [Learn more](#)

The screenshot shows two terminal sessions in the Google Cloud Platform Cloud Shell.

Terminal 1 (Top):

```
deployment.apps/node-deployment created
immortalkrazy@cloudshell:~ (edureka-dockercertification)$ cat project-deploy.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: node-deployment
  labels:
    app: node
spec:
  replicas: 3
  revisionHistoryLimit: 5
  selector:
    matchLabels:
      app: node
  template:
    metadata:
      labels:
        app: node
    spec:
      containers:
        - name: node
          image: docker.io/immortalkrazy/docker-cert-app:latest
          ports:
            - containerPort: 8080
External IP address '35.192.165.168' copied. X
```

Terminal 2 (Bottom):

```
Every 2.0s: kubectl get po,svc
                                         cs-398005923810-default-boost-bnppp: Sun Aug 22 22:07:59 2021
NAME                               READY   STATUS    RESTARTS   AGE
pod/mypod                          1/1     Running   0          3h54m
pod/node-deployment-59bcbc465f-gbz8b 1/1     Running   0          67s
pod/node-deployment-59bcbc465f-kfzt9 1/1     Running   0          67s
pod/node-deployment-59bcbc465f-nlczm 1/1     Running   0          67s

NAME           TYPE      CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
service/kubernetes  ClusterIP  10.64.0.1   <none>       443/TCP   4h20m
```

A message "External IP address '35.192.165.168' copied." is displayed in a tooltip at the bottom of the bottom terminal window.

root@docker-m1:~/edureka/dockerProjApp/forethought-app - Google Chrome
 ssh.cloud.google.com/projects/edureka-dockercertification/zones/us-central1-a/instances/docker-m1?authuser=3&hl=en_US&projectNumber=753064402251&useAdminProxy=true&troubleshoot4005Enabled...

```
[root@docker-m1 forethought-app]# docker ps
CONTAINER ID        IMAGE               COMMAND
[root@docker-m1 forethought-app]# docker ps -a
CONTAINER ID        IMAGE               COMMAND
41ea42e5a012        nodeapp             "docker-entrypoint..."   19 minutes ago   Exited (137) 6 minutes ago
[root@docker-m1 forethought-app]# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             STATUS              PORTS
docker-cert-app    latest              18e7166f1030      15 minutes ago    914 MB
immortalkrazy/docker-cert-app  latest              18e7166f1030      15 minutes ago    914 MB
nodeapp             latest              cff61ba637f2      22 minutes ago    914 MB
docker.io/node     latest              c66552d59c4b      4 days ago        907 MB
[root@docker-m1 forethought-app]# docker pull []

```

The connection to your Google Cloud Shell was lost.

```
immortalkrazy@cloudshell:~ (edureka-dockercertification)$ kubectl get endpoints
NAME           ENDPOINTS   AGE
kubernetes     34.123.3.137:443   4h22m
nodelb         10.60.0.5:8080,10.60.2.5:8080,10.60.2.6:8080   24s
immortalkrazy@cloudshell:~ (edureka-dockercertification)$ kubectl get nodes
NAME          STATUS  ROLES   AGE   VERSION
gke-springapp-default-pool-b39336a5-dp26  Ready   <none>  4h21m  v1.20.8-gke.900
gke-springapp-default-pool-b39336a5-nqx5  Ready   <none>  4h21m  v1.20.8-gke.900
gke-springapp-default-pool-b39336a5-zkn3  Ready   <none>  4h22m  v1.20.8-gke.900
immortalkrazy@cloudshell:~ (edureka-dockercertification)$ kubectl get pods -o wide
NAME          READY   STATUS    RESTARTS   AGE   IP          NODE
DE  READINESS GATES
mypod         1/1     Running   0          3h57m  10.60.0.3  gke-springapp-default-pool-b39336a5-nqx5  <none>
<none>
node-deployment-59bc465f-gbz8b  1/1     Running   0          3m47s  10.60.0.5  gke-springapp-default-pool-b39336a5-nqx5  <none>
<none>
node-deployment-59bc465f-kfzt9  1/1     Running   0          3m47s  10.60.2.6  gke-springapp-default-pool-b39336a5-dp26  <none>
<none>
node-deployment-59bc465f-nlczm  1/1     Running   0          3m47s  10.60.2.5  gke-springapp-default-pool-b39336a5-dp26  <none>
<none>
immortalkrazy@cloudshell:~ (edureka-dockercertification)$ kubectl get svc
NAME        TYPE      CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
kubernetes  ClusterIP  10.64.0.1    <none>       443/TCP   4h23m
nodelb     LoadBalancer  10.64.2.172  34.70.125.145  8080:30391/TCP  61s
immortalkrazy@cloudshell:~ (edureka-dockercertification)$ 
```

