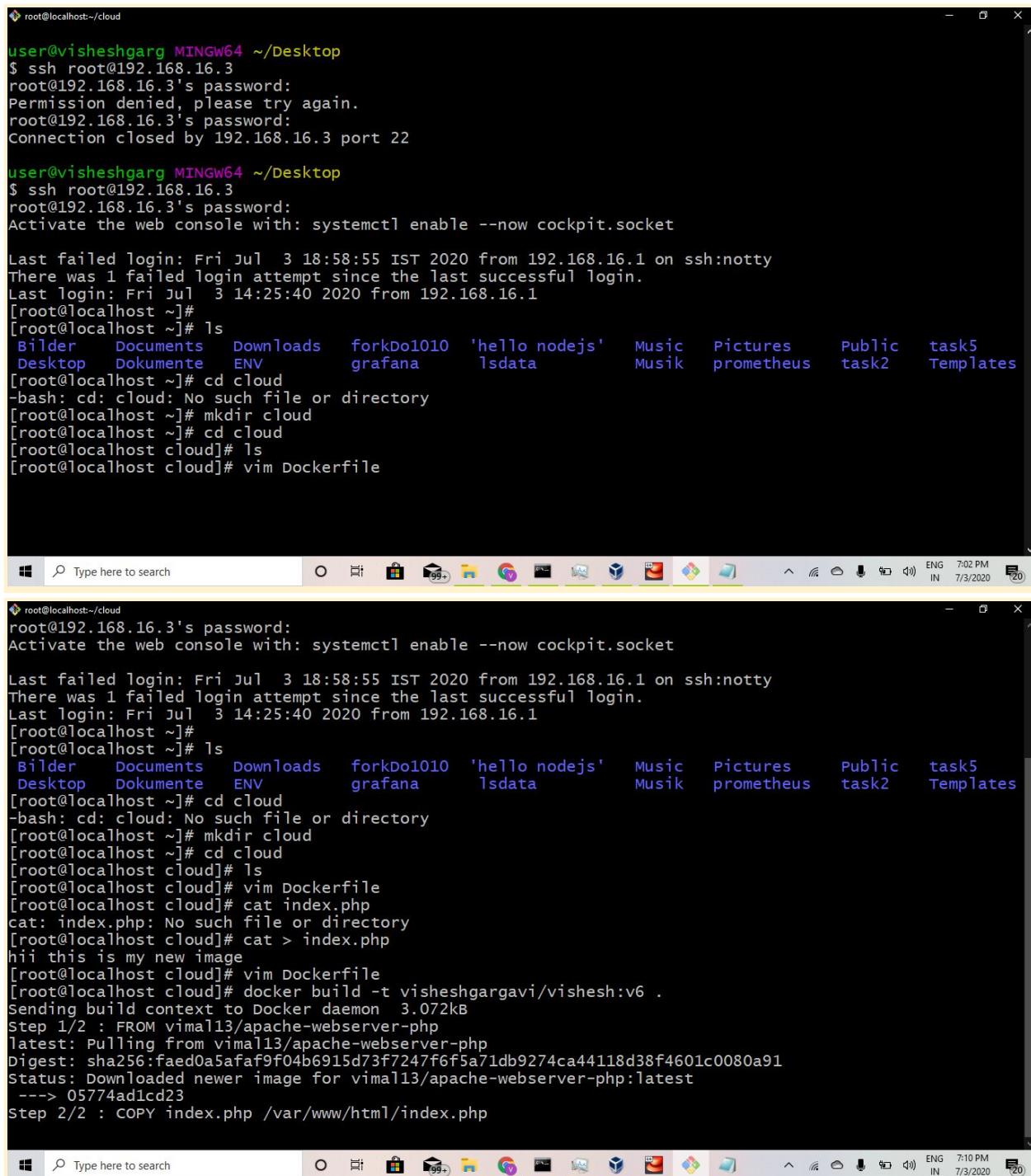


3rd july:

Deployment:



The image shows two separate terminal windows running on a Windows operating system. Both windows have a black background and white text, typical of a terminal or command-line interface.

Terminal Window 1 (Top):

```
root@localhost:~/cloud
user@visheshgarg MINGW64 ~/Desktop
$ ssh root@192.168.16.3
root@192.168.16.3's password:
Permission denied, please try again.
root@192.168.16.3's password:
Connection closed by 192.168.16.3 port 22

user@visheshgarg MINGW64 ~/Desktop
$ ssh root@192.168.16.3
root@192.168.16.3's password:
Activate the web console with: systemctl enable --now cockpit.socket

Last failed login: Fri Jul  3 18:58:55 IST 2020 from 192.168.16.1 on ssh:notty
There was 1 failed login attempt since the last successful login.
Last login: Fri Jul  3 14:25:40 2020 from 192.168.16.1
[root@localhost ~]#
[root@localhost ~]# ls
Bilder  Documents  Downloads  forkDo1010  'hello nodejs'  Music  Pictures  Public  task5
Desktop  Dokumente  ENV        grafana    1sdata       Musik  prometheus  task2  Templates
[root@localhost ~]# cd cloud
-bash: cd: cloud: No such file or directory
[root@localhost ~]# mkdir cloud
[root@localhost ~]# cd cloud
[root@localhost cloud]# ls
[root@localhost cloud]# vim Dockerfile
```

Terminal Window 2 (Bottom):

```
root@localhost:~/cloud
root@192.168.16.3's password:
Activate the web console with: systemctl enable --now cockpit.socket

Last failed login: Fri Jul  3 18:58:55 IST 2020 from 192.168.16.1 on ssh:notty
There was 1 failed login attempt since the last successful login.
Last login: Fri Jul  3 14:25:40 2020 from 192.168.16.1
[root@localhost ~]#
[root@localhost ~]# ls
Bilder  Documents  Downloads  forkDo1010  'hello nodejs'  Music  Pictures  Public  task5
Desktop  Dokumente  ENV        grafana    1sdata       Musik  prometheus  task2  Templates
[root@localhost ~]# cd cloud
-bash: cd: cloud: No such file or directory
[root@localhost ~]# mkdir cloud
[root@localhost ~]# cd cloud
[root@localhost cloud]# ls
[root@localhost cloud]# vim Dockerfile
[root@localhost cloud]# cat index.php
cat: index.php: No such file or directory
[root@localhost cloud]# cat > index.php
hi this is my new image
[root@localhost cloud]# vim Dockerfile
[root@localhost cloud]# docker build -t visheshgargavi/vishesh:v6 .
Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM vimal13/apache-webserver-php
latest: Pulling from vimal13/apache-webserver-php
Digest: sha256:faed0a5afaf9f04b6915d73f7247f6f5a71db9274ca44118d38f4601c0080a91
Status: Downloaded newer image for vimal13/apache-webserver-php:latest
--> 05774ad1cd23
Step 2/2 : COPY index.php /var/www/html/index.php
```

```
root@localhost:~/cloud
FROM vimal13/apache-webserver-php

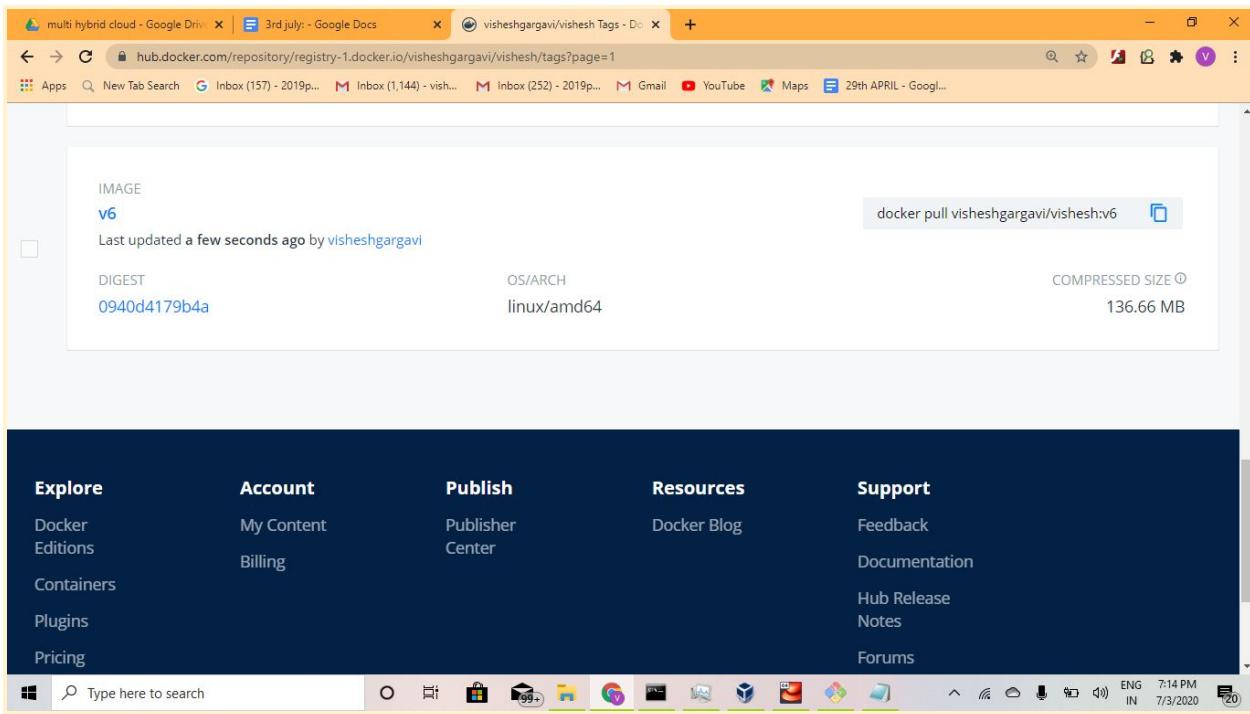
COPY index.php /var/www/html/index.php
~

"Dockerfile" 3L, 74C
3,38          All
Type here to search  O  Microsoft Edge  File  Home  Task View  Start  Taskbar  Help  ENG IN 7:11 PM 7/3/2020 20

root@localhost:~/cloud
ubuntu          latest      1d622ef86b13    2 months ago   73.9MB
centos         8           470671670cac    5 months ago   237MB
centos          latest      470671670cac    5 months ago   237MB
vimal13/apache-webserver-php latest      05774ad1cd23    2 years ago    350MB
[root@localhost cloud]# docker push visheshgargavi/vishesh:v6

The push refers to repository [docker.io/visheshgargavi/vishesh]
84e38cda15e8: Preparing
734bde008f37: Preparing
e52810c22858: Preparing
b362758f4793: Preparing
denied: requested access to the resource is denied
[root@localhost cloud]#
[root@localhost cloud]# 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: visheshgargavi
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[root@localhost cloud]# docker push visheshgargavi/vishesh:v6
The push refers to repository [docker.io/visheshgargavi/vishesh]
84e38cda15e8: Pushed
734bde008f37: Mounted from vimal13/apache-webserver-php
e52810c22858: Mounted from vimal13/apache-webserver-php
b362758f4793: Mounted from vimal13/apache-webserver-php
|
```



```
C:\Windows\system32>cd C:\Users\user\Desktop\kube_cloud
C:\Users\user\Desktop\kube_cloud>kubectl apply -f rs3.yml
replicaset.apps/myweb-rs created
```

```
C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME      READY  STATUS   RESTARTS  AGE
myweb-rs-8bpg8  1/1   Running  0        13s
myweb-rs-mq89r  1/1   Running  0        13s
```

```
C:\Users\user\Desktop\kube_cloud>kubectl get all
NAME      READY  STATUS   RESTARTS  AGE
pod/myweb-rs-8bpg8  1/1   Running  0        29s
pod/myweb-rs-mq89r  1/1   Running  0        29s
```

```
NAME      TYPE      CLUSTER-IP  EXTERNAL-IP  PORT(S)  AGE
service/kubernetes  ClusterIP  10.96.0.1  <none>     443/TCP  19h
```

```
NAME          DESIRED  CURRENT  READY  AGE
replicaset.apps/myweb-rs  2       2       2     29s
```

```
C:\Users\user\Desktop\kube_cloud>kubectl describe pod/myweb-rs-8bpg8
Name:      myweb-rs-8bpg8
```

Namespace: default

Priority: 0

Node: minikube/192.168.99.100

Start Time: Fri, 03 Jul 2020 19:16:08 +0530

Labels: env=dev

Annotations: <none>

Status: Running

IP: 172.17.0.7

IPs:

IP: 172.17.0.7

Controlled By: ReplicaSet/myweb-rs

Containers:

myweb-con:

Container ID:

docker://fc2bd8d9564ec98d57b72ca08afa4be1769fbf505c05b1b83e29c89eab98b45

f

Image: visheshgargavi/vishesh:v6

Image ID:

docker-pullable://visheshgargavi/vishesh@sha256:0940d4179b4a8ebbc26da3dc8b869c40f7c644fd867e2054d6315326a58a22e6

Port: <none>

Host Port: <none>

State: Running

Started: Fri, 03 Jul 2020 19:16:19 +0530

Ready: True

Restart Count: 0

Environment: <none>

Mounts:

/var/run/secrets/kubernetes.io/serviceaccount from default-token-8llwm (ro)

Conditions:

Type	Status
Initialized	True
Ready	True
ContainersReady	True
PodScheduled	True

Volumes:

default-token-8llwm:

Type: Secret (a volume populated by a Secret)

SecretName: default-token-8llwm

Optional: false
QoS Class: BestEffort
Node-Selectors: <none>
Tolerations: node.kubernetes.io/not-ready:NoExecute for 300s
node.kubernetes.io/unreachable:NoExecute for 300s

Events:

Type	Reason	Age	From	Message
---	---	---	-----	
Normal	Scheduled	58s	default-scheduler	Successfully assigned default/myweb-rs-8bpg8 to minikube
Normal	Pulling	57s	kubelet, minikube	Pulling image "visheshgargavi/vishesh:v6"
Normal	Pulled	47s	kubelet, minikube	Successfully pulled image "visheshgargavi/vishesh:v6"
Normal	Created	47s	kubelet, minikube	Created container myweb-con
Normal	Started	47s	kubelet, minikube	Started container myweb-con

C:\Users\user\Desktop\kube_cloud>kubectl expose rs myweb-rs --type=NodePort
--port 80
service/myweb-rs exposed

C:\Users\user\Desktop\kube_cloud>kubectl get all
NAME READY STATUS RESTARTS AGE
pod/myweb-rs-8bpg8 1/1 Running 0 104s
pod/myweb-rs-mq89r 1/1 Running 0 104s

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
service/kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	19h
service/myweb-rs	NodePort	10.106.174.225	<none>	80:30574/TCP	3s

NAME	DESIRED	CURRENT	READY	AGE
replicaset.apps/myweb-rs	2	2	2	104s

C:\Users\user\Desktop\kube_cloud>minikube service myweb-rs --url
http://192.168.99.100:30574

C:\Users\user\Desktop\kube_cloud>

```
rs3 - Notepad
File Edit Format View Help
apiVersion: apps/v1
kind: ReplicaSet
metadata:
  name: myweb-rs
spec:
  replicas: 2
  selector:
    matchLabels:
      env: dev
  template:
    metadata:
      name: myweb-pod
      labels:
        env: dev
    spec:
      containers:
        - name: myweb-con
          image: visheshgargavi/vishesh:v6|
```



hii this is my new image



rollout: deployment

```
root@localhost:~/cloud
734bde008f37: Preparing
e52810c22858: Preparing
b362758f4793: Preparing
denied: requested access to the resource is denied
[root@localhost cloud]#
[root@localhost cloud]# 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: visheshgargavi
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login succeeded
[root@localhost cloud]# docker push visheshgargavi/vishesh:v6
The push refers to repository [docker.io/visheshgargavi/vishesh]
84e38cda15e8: Pushed
734bde008f37: Mounted from vimal13/apache-webserver-php
e52810c22858: Mounted from vimal13/apache-webserver-php
b362758f4793: Mounted from vimal13/apache-webserver-php
v6: digest: sha256:0940d4179b4a8ebbc26da3dc8b869c40f7c644fd867e2054d6315326a58a22e6 size: 1156
[root@localhost cloud]# cat > index.php
this is the new version with new code
[root@localhost cloud]# docker build -t visheshgargavi/vishesh:v7 .
Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM vimal13/apache-webserver-php
--> 05774ad1cd23
Step 2/2 : COPY index.php /var/www/html/index.php
```



```
root@localhost:cloud
FROM vimal13/apache-webserver-php

COPY index.php /var/www/html/index.php
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-- INSERT --
3,39          All
root@localhost:cloud
user@visheshgarg MINGW64 ~/Desktop
$ ssh root@192.168.43.138
root@192.168.43.138's password:
Activate the web console with: systemctl enable --now cockpit.socket

Last login: Fri Jul  3 14:06:12 2020 from 192.168.43.55
[root@localhost ~]# mkdir /cloud
[root@localhost ~]# cd /cloud
[root@localhost cloud]# cat > index.php
this is the 2nd version
[root@localhost cloud]# vim Dockerfile
[root@localhost cloud]# docker build -t visheshgargavi/vishesh:v9 .
Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM vimal13/apache-webserver-php
latest: Pulling from vimal13/apache-webserver-php
74f0853ba93b: Pull complete
7aa70b934c32: Pull complete
2d68deff9aaf: Pull complete
Digest: sha256:faed0a5afaf9f04b6915d73f7247f6f5a71db9274ca44118d38f4601c0080a91
Status: Downloaded newer image for vimal13/apache-webserver-php:latest
--> 05774ad1cd23
Step 2/2 : COPY index.php /var/www/html/index.php
--> ac23043d0617
Successfully built ac23043d0617
Successfully tagged visheshgargavi/vishesh:v9
[root@localhost cloud]# docker login --username=visheshgargavi
Password:
```

```

root@localhost:cloud
Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM vimal13/apache-webserver-php
latest: Pulling from vimal13/apache-webserver-php
74f0853ba93b: Pull complete
7aa70b934c32: Pull complete
2d68deff9aaf: Pull complete
Digest: sha256:faed0a5afaf9f04b6915d73f7247f6f5a71db9274ca44118d38f4601c0080a91
Status: Downloaded newer image for vimal13/apache-webserver-php:latest
--> 05774ad1cd23
Step 2/2 : COPY index.php /var/www/html/index.php
--> ac23043d0617
Successfully built ac23043d0617
Successfully tagged visheshgargavi/vishesh:v9
[root@localhost cloud]# docker login --username=visheshgargavi
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[root@localhost cloud]# docker push visheshgargavi/vishesh:v9
The push refers to repository [docker.io/visheshgargavi/vishesh]
1891be233b21: Pushed
734bde008f37: Layer already exists
e52810c22858: Layer already exists
b362758f4793: Layer already exists
v9: digest: sha256:f23c7e841d3069186f7e9c8741a906a4c9a9c16b56da2ffa8edbb73d752125bf size: 1155
[root@localhost cloud]# |
```

Type here to search

192.168.99.100:30574

hub.docker.com/repository/registry-1.docker.io/visheshgargavi/vishesh/tags?page=1

DIGEST	OS/ARCH	COMPRESSED SIZE
5dabbaef3b5ee	linux/amd64	136.66 MB

[IMAGE](#)

v9

Last updated a few seconds ago by visheshgargavi

[docker pull visheshgargavi/vishesh:v9](#)

DIGEST	OS/ARCH	COMPRESSED SIZE
f23c7e841d30	linux/amd64	136.66 MB

ramped is also known as rollings update
 Rs doesn't allow to update the image internally
 Replica set doesn't allow rolling updates

multi hybrid cloud - Google Docs

3rd july: - Google Docs

visheshgargavi/vishesh Tags

192.168.99.100:31742

192.168.99.100:31933

```
C:\Windows\system32\cmd.exe
this is the 2nd version
C:\Users\user>curl http://192.168.99.100:30261
curl: (7) Failed to connect to 192.168.99.100 port 30261: Connection refused
C:\Users\user>curl http://192.168.99.100:31933
version:4
C:\Users\user>
NAME TYPE NAME READY STATUS RESTARTS AGE
myweb-rs-m6p9r 1/1 Running 0 13m
myweb-rs-pmn8t 1/1 Running 0 10s
myweb-rs-x92cf 1/1 Running 0 13m
NAME DESIRE
myweb-rs-m6p9r 1/1 Running 0 13m
myweb-rs-pmn8t 1/1 Running 0 10s
myweb-rs-x92cf 1/1 Running 0 13m
C:\Users\user\Desktop\kube_cloud>
```

Type here to search

File Edit

Administrator: Command Prompt

3rd July:

```
C:\Users\user\Desktop\kube_cloud>minikube service myweb-rs --url
http://192.168.99.100:31933

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME READY STATUS RESTARTS AGE
myweb-rs-m6p9r 1/1 Running 0 34s
myweb-rs-x92cf 1/1 Running 0 34s

3rd July:
C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME READY STATUS RESTARTS AGE
myweb-rs-m6p9r 1/1 Running 0 12m
myweb-rs-x92cf 1/1 Running 0 12m
NAME READY
C:\Users\user\Desktop\kube_cloud>minikube service myweb-rs --url
NAME TYPE http://192.168.99.100:31933

NAME DESIRE
C:\Users\user\Desktop\kube_cloud>kubectl apply -f rs3.yml
Warning: kubectl apply should be used on resource created by either kubectl create --save-config or kubectl apply
IP: 172.17.0.7<:31933>
C:\Users\user\Desktop\kube_cloud>kubectl replace -f rs3.yml
replicaset.apps/myweb-rs replaced
NAME READY
C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME READY STATUS RESTARTS AGE
myweb-rs-m6p9r 1/1 Running 0 13m
myweb-rs-pmn8t 1/1 Running 0 10s
myweb-rs-x92cf 1/1 Running 0 13m
NAME DESIRE
myweb-rs-m6p9r 1/1 Running 0 13m
myweb-rs-pmn8t 1/1 Running 0 10s
myweb-rs-x92cf 1/1 Running 0 13m
C:\Users\user\Desktop\kube_cloud>
```

Type here to search

File Edit

Administrator: Command Prompt

3rd July:

```
C:\Users\user\Desktop\kube_cloud>minikube service myweb-rs --url
http://192.168.99.100:31933

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME READY STATUS RESTARTS AGE
myweb-rs-m6p9r 1/1 Running 0 34s
myweb-rs-x92cf 1/1 Running 0 34s

3rd July:
C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME READY STATUS RESTARTS AGE
myweb-rs-m6p9r 1/1 Running 0 12m
myweb-rs-x92cf 1/1 Running 0 12m
NAME READY
C:\Users\user\Desktop\kube_cloud>minikube service myweb-rs --url
NAME TYPE http://192.168.99.100:31933

NAME DESIRE
C:\Users\user\Desktop\kube_cloud>kubectl apply -f rs3.yml
Warning: kubectl apply should be used on resource created by either kubectl create --save-config or kubectl apply
IP: 172.17.0.7<:31933>
C:\Users\user\Desktop\kube_cloud>kubectl replace -f rs3.yml
replicaset.apps/myweb-rs replaced
NAME READY
C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME READY STATUS RESTARTS AGE
myweb-rs-m6p9r 1/1 Running 0 13m
myweb-rs-pmn8t 1/1 Running 0 10s
myweb-rs-x92cf 1/1 Running 0 13m
NAME DESIRE
myweb-rs-m6p9r 1/1 Running 0 13m
myweb-rs-pmn8t 1/1 Running 0 10s
myweb-rs-x92cf 1/1 Running 0 13m
C:\Users\user\Desktop\kube_cloud>
```

Type here to search

File Edit

The screenshot shows a Windows desktop environment with two windows open:

- rs3 - Notepad**: A text editor displaying a Kubernetes ReplicaSet configuration file named rs3.yaml. The file defines a ReplicaSet named "myweb-rs" with 3 replicas, targeting pods labeled "env: dev". It uses a template with metadata and a single container named "myweb-con" running the image "visheshgargavi/vishesh:3".
- cmd.exe**: A command-line interface window showing several curl commands being run against the URL "http://192.168.99.100:31933". The responses indicate the version of the application is 4.

In the bottom-left corner of the cmd window, there is a tooltip or a highlighted area showing the output of a command related to pod deletion:

```

label:pod "myweb-rs-m6p9r" deleted
  env:pod "myweb-rs-pmn8t" deleted
spec: pod "myweb-rs-x92cf" deleted
  conta
- name:C:\Users\user\Desktop\kube_cloud\kubectl get pods
  imaNAME      READY  STATUS   RESTARTS  AGE
  myweb-rs-jkx8h  1/1    Running   0          8s
  myweb-rs-tg75k  1/1    Running   0          8s
  myweb-rs-xgxpw  1/1    Running   0          8s

```

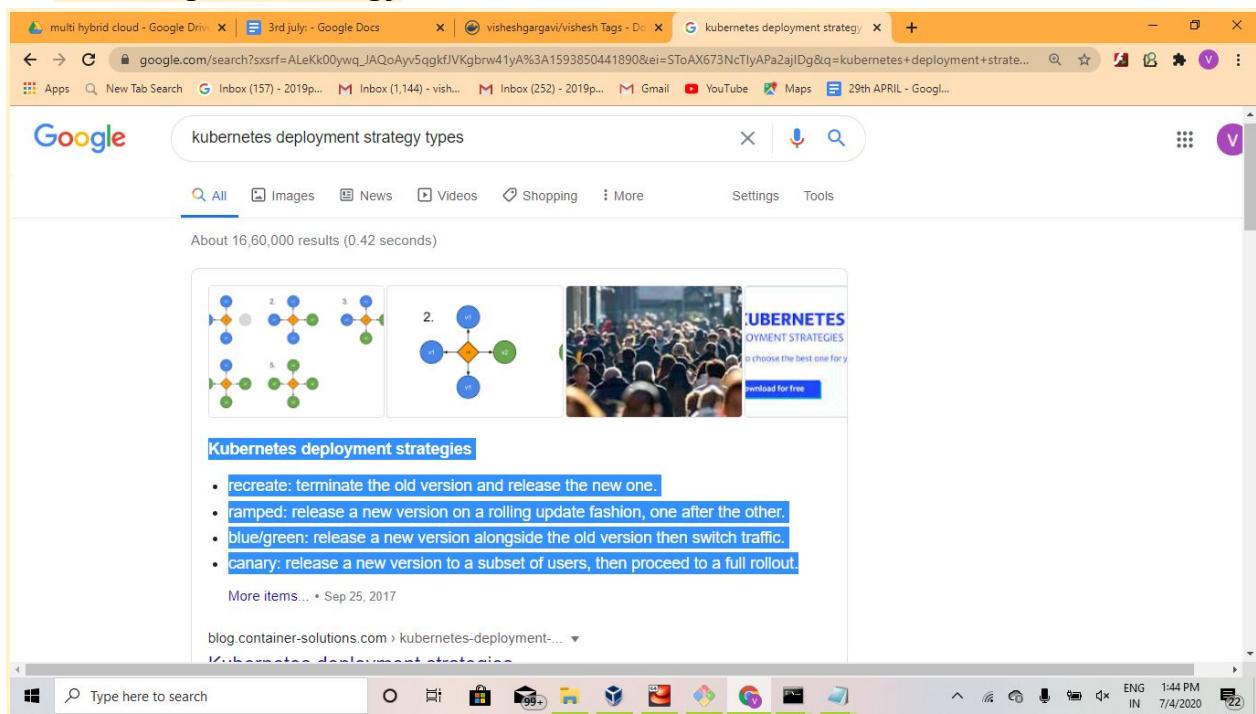
in rs we have to manually go and delete all the pods thn only we can get the updates

During this time internal we will face down-time for few seconds

If we dont want to have this delay thn we can go with deployment and directly updates the pods also

> deployment

- 1. Delete all the pods and launch the pods manually(recreate strategy) in which we will have down time**
- 2. Rampt strategy (client is connected with the pods) when they see a pod free they will update that particular pod and they will divert the new traffic to this updated pod and vice-versa, this is not the duty of deployment ,this is done with the help of roll-update strategy**
- 3. Ramped is also known as rolling updates strategy**
- 4. Canary strategy**
- 5. Blue-green strategy**



We never use replica set separately we use rs with deployment *****

```
Dockerfile index.php
[root@localhost cloud]# cat > index.php
hi this is the version 3
[root@localhost cloud]# docker build -t visheshgargavi/vishesh:v7
"docker build" requires exactly 1 argument.
See 'docker build --help'.

Usage: docker build [OPTIONS] PATH | URL | -

Build an image from a Dockerfile
[root@localhost cloud]# docker build -t visheshgargavi/vishesh:v7 .
Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM vimal13/apache-webserver-php
--> 05774ad1cd23
Step 2/2 : COPY index.php /var/www/html/index.php
--> c8feb68cfadc
Successfully built c8feb68cfadc
Successfully tagged visheshgargavi/vishesh:v7
[root@localhost cloud]# docker images
REPOSITORY          TAG      IMAGE ID      CREATED
SIZE
visheshgargavi/vishesh    v7      c8feb68cfadc   4 seconds ago
350MB
visheshgargavi/vishesh    v9      ac23043d0617   18 hours ago
```

```
root@localhost:cloud
mycentos           v1      8c4003d0c322   3 weeks ago
280MB
vimal13/apache_exporter latest  5a4424d01e57   3 weeks ago
14.8MB
httpd              latest  d4e60c8eb27a   7 weeks ago
166MB
centos             7       b5b4d78bc90c   8 weeks ago
203MB
centos             latest  470671670cac   5 months ago
237MB
vimal13/apache-webserver-php latest  05774ad1cd23   2 years ago
350MB
[root@localhost cloud]# cat > index.php
hi this is the version 4 for the deployment
[root@localhost cloud]# docker build -t visheshgargavi/vishesh:v8 .
Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM vimal13/apache-webserver-php
--> 05774ad1cd23
Step 2/2 : COPY index.php /var/www/html/index.php
--> bb89e70fbdf
Successfully built bb89e70fbdf
Successfully tagged visheshgargavi/vishesh:v8
[root@localhost cloud]# docker images
REPOSITORY          TAG      IMAGE ID      CREATED
SIZE
```

```

root@localhost:cloud
vimal13/apache_exporter      latest      5a4424d01e57    3 weeks ago
14.8MB
httpd                         latest      d4e60c8eb27a    7 weeks ago
166MB
centos                        7          b5b4d78bc90c    8 weeks ago
203MB
centos                        latest      470671670cac    5 months ago
237MB
vimal13/apache-webserver-php  latest      05774ad1cd23    2 years ago
350MB
[root@localhost cloud]# cat > index.php
hi this is the version 5 for the deployment
[root@localhost cloud]# docker build -t visheshgargavi/vishesh:v10 .
Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM vimal13/apache-webserver-php
--> 05774ad1cd23
Step 2/2 : COPY index.php /var/www/html/index.php
--> 3c03d880eb94
Successfully built 3c03d880eb94
Successfully tagged visheshgargavi/vishesh:v10
[root@localhost cloud]# docker images
REPOSITORY           TAG      IMAGE ID      CREATED
SIZE
visheshgargavi/vishesh   v10     3c03d880eb94    31 seconds ago

```

The screenshot shows a Windows desktop environment. At the top is the taskbar with icons for File Explorer, Task View, Start, and other system utilities. Below the taskbar are two windows:

- Terminal Window:** The title bar says "C:\Users\user\Desktop\kube_cloud>". The content shows command-line output related to Docker and Kubernetes.
- Notepad Window:** The title bar says "deployment1 - Notepad". The content is a YAML file for a Kubernetes Deployment named "myweb-deploy".

```

deployment1 - Notepad
File Edit Format View Help
apiVersion: apps/v1
kind: Deployment
metadata:
  name: myweb-deploy
spec:
  strategy:
    rollingupdate
  replicas: 4
  selector:
    matchLabels:
      env: dev
  template:
    metadata:
      name: myweb-pod
      labels:
        env: dev
    spec:
      containers:
        - name: myweb-con
          image: visheshgargavi/vishesh:v7

```

```
C:\Users\user\Desktop\kube_cloud>kubectl apply --validate=false -f
deployment1.yml
deployment.apps/myweb-deploy created
```

```
C:\Users\user\Desktop\kube_cloud>kubectl get all
NAME          READY STATUS   RESTARTS AGE

```

```

pod/myweb-deploy-67cf766c4-chc2c 0/1 ContainerCreating 0 4s
pod/myweb-deploy-67cf766c4-fkk1v 0/1 ContainerCreating 0 4s
pod/myweb-deploy-67cf766c4-lhtx5 0/1 ContainerCreating 0 4s
pod/myweb-deploy-67cf766c4-zsw7z 0/1 ContainerCreating 0 4s

```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
service/kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	65s

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
deployment.apps/myweb-deploy	0/4	4	0	4s

NAME	DESIRED	CURRENT	READY	AGE
replicaset.apps/myweb-deploy-67cf766c4	4	4	0	4s

C:\Users\user\Desktop\kube_cloud>kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
myweb-deploy-67cf766c4-chc2c	1/1	Running	0	17s
myweb-deploy-67cf766c4-fkk1v	1/1	Running	0	17s
myweb-deploy-67cf766c4-lhtx5	1/1	Running	0	17s
myweb-deploy-67cf766c4-zsw7z	1/1	Running	0	17s

```

deployment1 - Notepad
File Edit Format View Help
apiVersion: apps/v1
kind: Deployment
metadata:
  name: myweb-deploy
spec:
  replicas: 4
  selector:
    matchLabels:
      env: dev
  template:
    metadata:
      name: myweb-pod
      labels:
        env: dev
    spec:
      containers:
        - name: myweb-con
          image: visheshgargavi/vishesh:v7

```

C:\Users\user\Desktop\kube_cloud>kubectl get deployments

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
------	-------	------------	-----------	-----

```
myweb-deploy 4/4 4 4 46s
```

```
C:\Users\user\Desktop\kube_cloud>kubectl describe deployments
```

```
Name: myweb-deploy
```

```
Namespace: default
```

```
CreationTimestamp: Sat, 04 Jul 2020 13:59:45 +0530
```

```
Labels: <none>
```

```
Annotations: deployment.kubernetes.io/revision: 1
```

```
Selector: env=dev
```

```
Replicas: 4 desired | 4 updated | 4 total | 4 available | 0 unavailable
```

```
StrategyType: RollingUpdate
```

```
MinReadySeconds: 0
```

```
RollingUpdateStrategy: 25% max unavailable, 25% max surge
```

```
Pod Template:
```

```
Labels: env=dev
```

```
Containers:
```

```
myweb-con:
```

```
Image: visheshgargavi/vishesh:v7
```

```
Port: <none>
```

```
Host Port: <none>
```

```
Environment: <none>
```

```
Mounts: <none>
```

```
Volumes: <none>
```

```
Conditions:
```

Type	Status	Reason
------	--------	--------

---	-----	-----
-----	-------	-------

Available	True	MinimumReplicasAvailable
-----------	------	--------------------------

Progressing	True	NewReplicaSetAvailable
-------------	------	------------------------

```
OldReplicaSets: <none>
```

```
NewReplicaSet: myweb-deploy-67cf766c4 (4/4 replicas created)
```

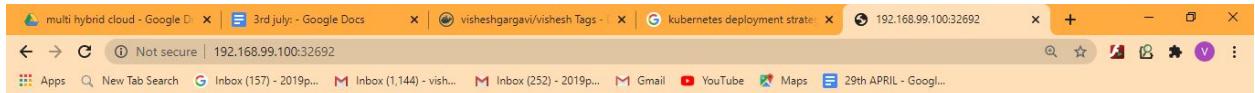
```
Events:
```

Type	Reason	Age	From	Message
------	--------	-----	------	---------

---	-----	----	----	-----
-----	-------	------	------	-------

Normal	ScalingReplicaSet	61s	deployment-controller	Scaled up replica set
--------	-------------------	-----	-----------------------	-----------------------

```
myweb-deploy-67cf766c4 to 4
```



hi this is the version 3



```
C:\Users\user\Desktop\kube_cloud>kubectl expose deployment myweb-deploy --type=NodePort  
--port 80  
service/myweb-deploy exposed  
C:\Users\user\Desktop\kube_cloud>minikube service myweb-deploy --url  
http://192.168.99.100:32692
```

```
C:\Users\user\Desktop\kube_cloud>kubectl get pods  
NAME          READY   STATUS    RESTARTS   AGE  
myweb-deploy-67cf766c4-chc2c  1/1     Running   0          3m28s  
myweb-deploy-67cf766c4-fkk1v  1/1     Running   0          3m28s  
myweb-deploy-67cf766c4-lhtx5  1/1     Running   0          3m28s  
myweb-deploy-67cf766c4-zsw7z  1/1     Running   0          3m28s  
C:\Users\user\Desktop\kube_cloud>kubectl describe pod/myweb-deploy-67cf766c4-lhtx5  
Name:      myweb-deploy-67cf766c4-lhtx5  
Namespace:  default  
Priority:  0  
Node:      minikube/192.168.99.100  
Start Time: Sat, 04 Jul 2020 13:59:45 +0530  
Labels:    env=dev  
           pod-template-hash=67cf766c4  
Annotations: <none>  
Status:    Running  
IP:       172.17.0.2  
IPs:  
IP:       172.17.0.2
```

Controlled By: ReplicaSet/myweb-deploy-67cf766c4

Containers:

- myweb-con:
 - Container ID: docker://e4e7c75083c3d63c0283ee8c42988de1c0c34a34fd062077c10f67aeb715daba
 - Image: visheshgargavi/vishesh:v7
 - Image ID: docker-pullable://visheshgargavi/vishesh@sha256:f47eb27efc4d3369b816a9723a2c9b86359102b546f2d7024792d423c4879e5d
 - Port: <none>
 - Host Port: <none>
 - State: Running
 - Started: Sat, 04 Jul 2020 13:59:52 +0530
 - Ready: True
 - Restart Count: 0

Environment: <none>

Mounts:

- /var/run/secrets/kubernetes.io/serviceaccount from default-token-8llwm (ro)

Conditions:

Type	Status
Initialized	True
Ready	True
ContainersReady	True
PodScheduled	True

Volumes:

- default-token-8llwm:
 - Type: Secret (a volume populated by a Secret)
 - SecretName: default-token-8llwm
 - Optional: false

QoS Class: BestEffort

Node-Selectors: <none>

Tolerations:

- node.kubernetes.io/not-ready:NoExecute for 300s
- node.kubernetes.io/unreachable:NoExecute for 300s

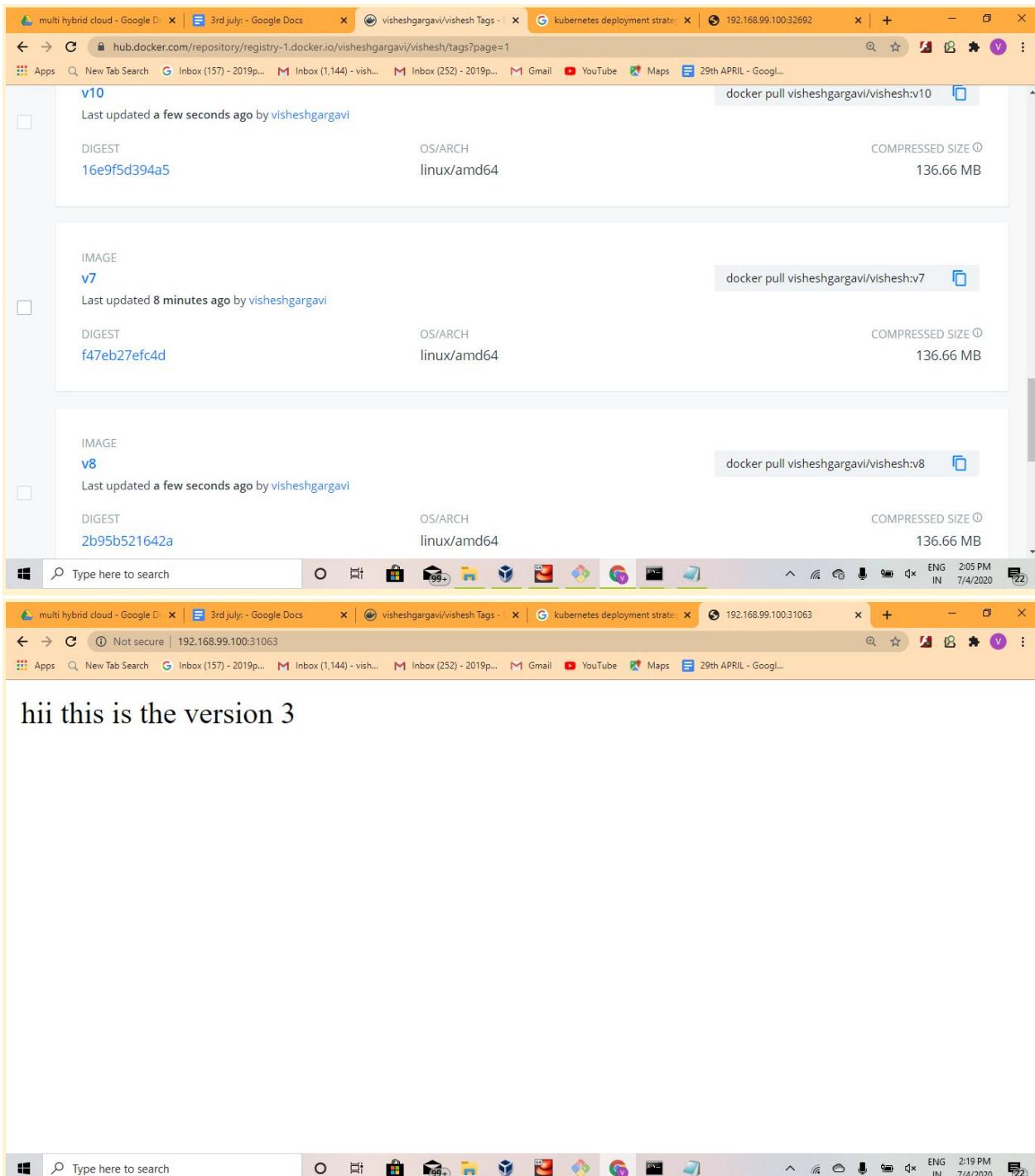
Events:

Type	Reason	Age	From	Message
---	---	---	---	-----
Normal	Scheduled	4m16s	default-scheduler	Successfully assigned default/myweb-deploy-67cf766c4-lhtx5 to minikube
Warning	FailedMount	4m15s	kubelet, minikube	MountVolume.SetUp failed for volume "default-token-8llwm" : failed to sync secret cache: timed out waiting for the condition
Normal	Pulled	4m11s	kubelet, minikube	Container image "visheshgargavi/vishesh:v7" already present on machine
Normal	Created	4m10s	kubelet, minikube	Created container myweb-con

Normal Started 4m9s kubelet, minikube Started container myweb-con

```
root@localhost:cloud
203MB
centos           latest      470671670cac    5 months ago
237MB
vimal13/apache-webserver-php latest      05774ad1cd23    2 years ago
350MB
[root@localhost cloud]# docker push visheshgargavi/vishesh:v7
The push refers to repository [docker.io/visheshgargavi/vishesh]
Get https://registry-1.docker.io/v2/: net/http: request canceled while waiting for connection (Client.Timeout exceeded while awaiting headers)
[root@localhost cloud]# docker push visheshgargavi/vishesh:v7
The push refers to repository [docker.io/visheshgargavi/vishesh]
9b23de32f26c: Pushed
734bde008f37: Layer already exists
e52810c22858: Layer already exists
b362758f4793: Layer already exists
v7: digest: sha256:f47eb27efc4d3369b816a9723a2c9b86359102b546f2d7024792d423c4879e5d
size: 1155
[root@localhost cloud]# docker push visheshgargavi/vishesh:v8
The push refers to repository [docker.io/visheshgargavi/vishesh]
0a85733d622a: Pushing 3.584kB
734bde008f37: Layer already exists
e52810c22858: Layer already exists
b362758f4793: Layer already exists
```

```
root@localhost:cloud
connection (Client.Timeout exceeded while awaiting headers)
[root@localhost cloud]# docker push visheshgargavi/vishesh:v7
The push refers to repository [docker.io/visheshgargavi/vishesh]
9b23de32f26c: Pushed
734bde008f37: Layer already exists
e52810c22858: Layer already exists
b362758f4793: Layer already exists
v7: digest: sha256:f47eb27efc4d3369b816a9723a2c9b86359102b546f2d7024792d423c4879e5d
size: 1155
[root@localhost cloud]# docker push visheshgargavi/vishesh:v8
The push refers to repository [docker.io/visheshgargavi/vishesh]
0a85733d622a: Pushed
734bde008f37: Layer already exists
e52810c22858: Layer already exists
b362758f4793: Layer already exists
v8: digest: sha256:2b95b521642aa4a44aa7a071a673339ec6d782eec6258606ad36d9da0dee6655
size: 1155
[root@localhost cloud]# docker push visheshgargavi/vishesh:v10
The push refers to repository [docker.io/visheshgargavi/vishesh]
e0d88c3b49a4: Pushing 3.584kB
734bde008f37: Layer already exists
e52810c22858: Layer already exists
b362758f4793: Layer already exists
```



hii this is the version 3

```
C:\Users\user\Desktop\kube_cloud>kubectl apply -f deployment1.yml
deployment.apps/myweb-deploy configured
C:\Users\user\Desktop\kube_cloud>minikube service myweb-deploy --url
http://192.168.99.100:31063
```

```
C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
```

```
myweb-deploy-67cf766c4-5zrrg 1/1 Running 0 24s
myweb-deploy-67cf766c4-82qlg 1/1 Running 0 24s
myweb-deploy-67cf766c4-8fj6r 1/1 Running 0 20s
myweb-deploy-67cf766c4-kbfjf 1/1 Running 0 20s
```

```
C:\Users\user>curl http://192.168.99.100:31063
```

```
hi this is the version 4 for the deployment
```

```
C:\Users\user>curl http://192.168.99.100:31063
```

```
hi this is the version 3
```

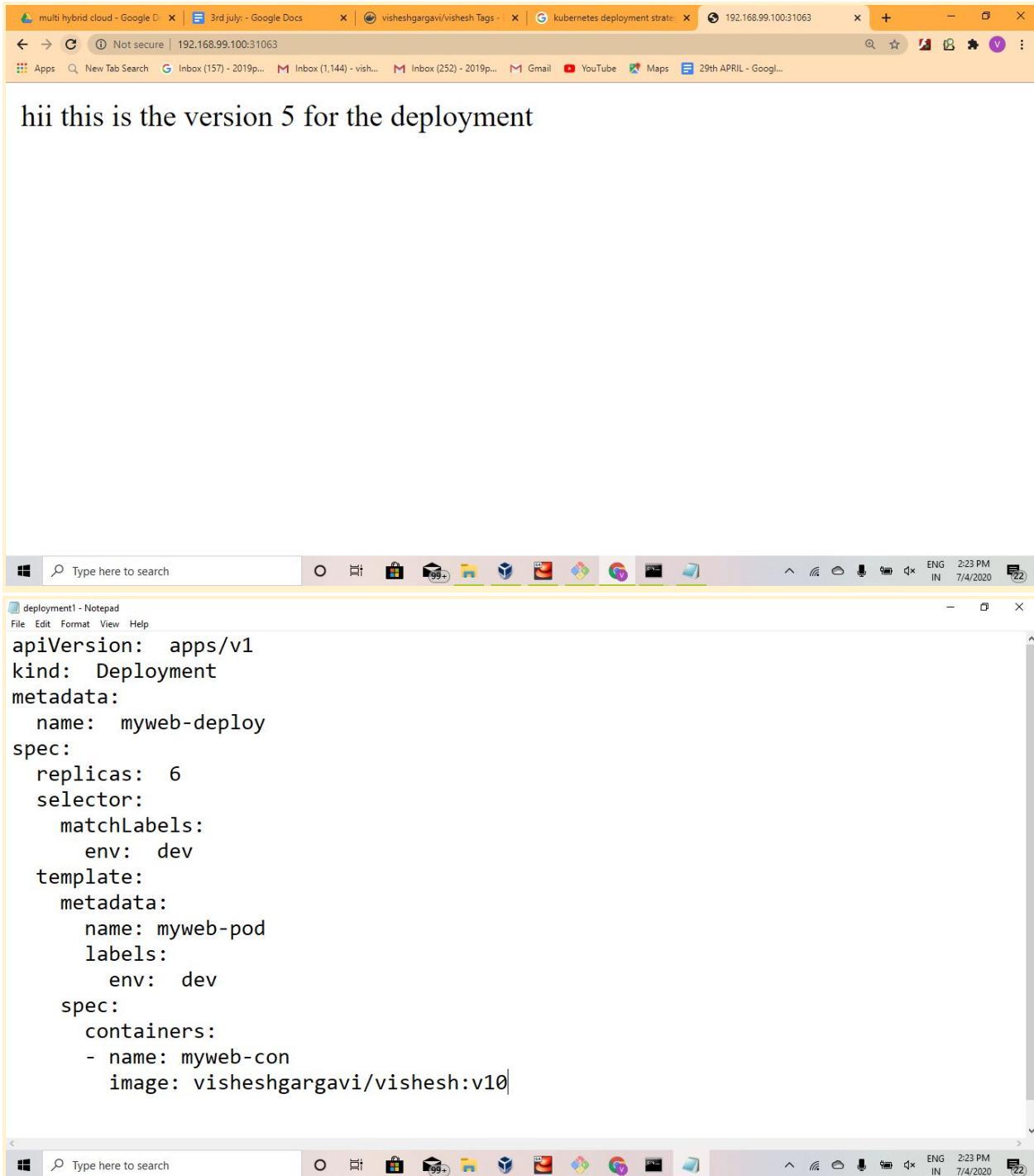
```
C:\Users\user>curl http://192.168.99.100:31063
```

```
hi this is the version 3
```

```
C:\Users\user>curl http://192.168.99.100:31063
```

```
hi this is the version 3
```

Type	Reason	Age	From	Message
---	---	---	-----	
Normal	ScalingReplicaSet	5m4s	deployment-controller	Scaled up replica set
myweb-deploy-6f78d44dd7	to 4			
Normal	ScalingReplicaSet	3m21s	deployment-controller	Scaled up replica set
myweb-deploy-67cf766c4	to 1			
Normal	ScalingReplicaSet	3m21s	deployment-controller	Scaled down replica set
myweb-deploy-6f78d44dd7	to 3			
Normal	ScalingReplicaSet	3m21s	deployment-controller	Scaled up replica set
myweb-deploy-67cf766c4	to 2			
Normal	ScalingReplicaSet	3m17s	deployment-controller	Scaled down replica set
myweb-deploy-6f78d44dd7	to 2			
Normal	ScalingReplicaSet	3m17s	deployment-controller	Scaled up replica set
myweb-deploy-67cf766c4	to 3			
Normal	ScalingReplicaSet	3m17s	deployment-controller	Scaled down replica set
myweb-deploy-6f78d44dd7	to 1			
Normal	ScalingReplicaSet	3m17s	deployment-controller	Scaled up replica set
myweb-deploy-67cf766c4	to 4			
Normal	ScalingReplicaSet	3m12s	deployment-controller	Scaled down replica set
myweb-deploy-6f78d44dd7	to 0			



C:\Users\user>curl http://192.168.99.100:31063

hii this is the version 3

C:\Users\user>curl http://192.168.99.100:31063

hii this is the version 5 for the deployment

C:\Users\user>curl http://192.168.99.100:31063

hi this is the version 3

C:\Users\user>curl http://192.168.99.100:31063

hi this is the version 5 for the deployment

C:\Users\user>curl http://192.168.99.100:31063

hi this is the version 3

C:\Users\user>curl http://192.168.99.100:31063

hi this is the version 3

C:\Users\user>curl http://192.168.99.100:31063

hi this is the version 3

C:\Users\user>curl http://192.168.99.100:31063

hi this is the version 5 for the deployment

C:\Users\user>curl http://192.168.99.100:31063

hi this is the version 3

C:\Users\user>curl http://192.168.99.100:31063

hi this is the version 3

C:\Users\user>curl http://192.168.99.100:31063

hi this is the version 5 for the deployment

C:\Users\user>curl http://192.168.99.100:31063

hi this is the version 5 for the deployment

C:\Users\user\Desktop\kube_cloud>kubectl apply -f deployment1.yml

deployment.apps/myweb-deploy configured

C:\Users\user\Desktop\kube_cloud>kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
myweb-deploy-5dd5c8fb64-2l7j6	0/1	ContainerCreating	0	2s
myweb-deploy-5dd5c8fb64-dkxx8	0/1	ContainerCreating	0	1s
myweb-deploy-5dd5c8fb64-pbzq6	0/1	ContainerCreating	0	2s
myweb-deploy-67cf766c4-5zrg	1/1	Running	0	3m50s
myweb-deploy-67cf766c4-82qlg	1/1	Running	0	3m50s
myweb-deploy-67cf766c4-8fj6r	1/1	Running	0	3m46s
myweb-deploy-67cf766c4-kbfjf	1/1	Running	0	3m46s
myweb-deploy-67cf766c4-mcftn	0/1	Terminating	0	2s
myweb-deploy-67cf766c4-r649d	0/1	ContainerCreating	0	2s

```
C:\Users\user\Desktop\kube_cloud>kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
myweb-deploy-5dd5c8fb64-2l7j6	1/1	Running	0	27s
myweb-deploy-5dd5c8fb64-dkxx8	1/1	Running	0	26s
myweb-deploy-5dd5c8fb64-l5scp	1/1	Running	0	10s
myweb-deploy-5dd5c8fb64-pbzq6	1/1	Running	0	27s
myweb-deploy-5dd5c8fb64-rnn9d	1/1	Running	0	14s
myweb-deploy-5dd5c8fb64-w8fhw	1/1	Running	0	8s
myweb-deploy-67cf766c4-5zrrg	0/1	Terminating	0	4m15s
myweb-deploy-67cf766c4-82qlg	0/1	Terminating	0	4m15s
myweb-deploy-67cf766c4-kbfjf	0/1	Terminating	0	4m11s

```
C:\Users\user\Desktop\kube_cloud>kubectl describe deployments
```

```
Name: myweb-deploy
Namespace: default
CreationTimestamp: Sat, 04 Jul 2020 14:16:57 +0530
Labels: <none>
Annotations: deployment.kubernetes.io/revision: 3
Selector: env=dev
Replicas: 6 desired | 6 updated | 6 total | 6 available | 0 unavailable
StrategyType: RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels: env=dev
  Containers:
    myweb-con:
      Image: visheshgargavi/vishesh:v10
      Port: <none>
      Host Port: <none>
      Environment: <none>
      Mounts: <none>
      Volumes: <none>
  Conditions:
    Type Status Reason
    ---- ---- -
    Available True  MinimumReplicasAvailable
    Progressing True NewReplicaSetAvailable
  OldReplicaSets: <none>
  NewReplicaSet: myweb-deploy-5dd5c8fb64 (6/6 replicas created)
Events:
  Type Reason Age From Message
```

Normal ScalingReplicaSet 6m4s	deployment-controller	Scaled up replica set
myweb-deploy-6f78d44dd7 to 4		
Normal ScalingReplicaSet 4m21s	deployment-controller	Scaled up replica set
myweb-deploy-67cf766c4 to 1		
Normal ScalingReplicaSet 4m21s	deployment-controller	Scaled down replica set
myweb-deploy-6f78d44dd7 to 3		
Normal ScalingReplicaSet 4m21s	deployment-controller	Scaled up replica set
myweb-deploy-67cf766c4 to 2		
Normal ScalingReplicaSet 4m17s	deployment-controller	Scaled down replica set
myweb-deploy-6f78d44dd7 to 2		
Normal ScalingReplicaSet 4m17s	deployment-controller	Scaled up replica set
myweb-deploy-67cf766c4 to 3		
Normal ScalingReplicaSet 4m17s	deployment-controller	Scaled down replica set
myweb-deploy-6f78d44dd7 to 1		
Normal ScalingReplicaSet 4m17s	deployment-controller	Scaled up replica set
myweb-deploy-67cf766c4 to 4		
Normal ScalingReplicaSet 4m12s	deployment-controller	Scaled down replica set
myweb-deploy-6f78d44dd7 to 0		
Normal ScalingReplicaSet 10s (x12 over 33s)	deployment-controller	(combined from similar events): Scaled down replica set myweb-deploy-67cf766c4 to 0

```
C:\Users\user\Desktop\kube_cloud>kubectl rollout status deploy/myweb-deploy
deployment "myweb-deploy" successfully rolled out
```

```
C:\Users\user\Desktop\kube_cloud>kubectl rollout status deploy/myweb-deploy
deployment "myweb-deploy" successfully rolled out
```

```
C:\Users\user\Desktop\kube_cloud>kubectl rollout undo deploy/myweb-deploy
deployment.apps/myweb-deploy rolled back
```

```
C:\Users\user\Desktop\kube_cloud>kubectl rollout status deploy/myweb-deploy
Waiting for deployment "myweb-deploy" rollout to finish: 3 out of 6 new replicas have been
updated...
```

```
Waiting for deployment "myweb-deploy" rollout to finish: 3 out of 6 new replicas have been
updated...
```

```
Waiting for deployment "myweb-deploy" rollout to finish: 3 out of 6 new replicas have been
updated...
```

```
Waiting for deployment "myweb-deploy" rollout to finish: 3 out of 6 new replicas have been
updated...
```

```
Waiting for deployment "myweb-deploy" rollout to finish: 4 out of 6 new replicas have been
updated...
```

Waiting for deployment "myweb-deploy" rollout to finish: 4 out of 6 new replicas have been updated...

Waiting for deployment "myweb-deploy" rollout to finish: 2 old replicas are pending termination...

Waiting for deployment "myweb-deploy" rollout to finish: 2 old replicas are pending termination...

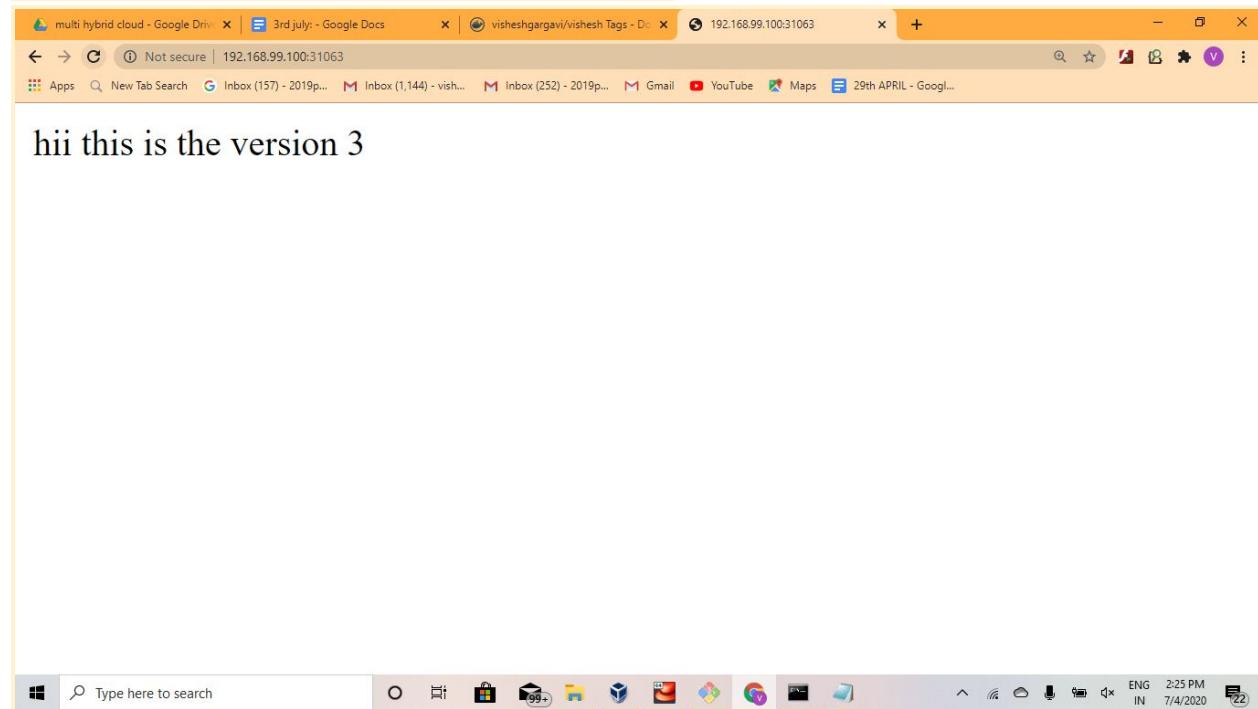
Waiting for deployment "myweb-deploy" rollout to finish: 2 old replicas are pending termination...

Waiting for deployment "myweb-deploy" rollout to finish: 1 old replicas are pending termination...

Waiting for deployment "myweb-deploy" rollout to finish: 1 old replicas are pending termination...

Waiting for deployment "myweb-deploy" rollout to finish: 5 of 6 updated replicas are available...

deployment "myweb-deploy" successfully rolled out



C:\Users\user>curl http://192.168.99.100:31063

hii this is the version 5 for the deployment

C:\Users\user>curl http://192.168.99.100:31063

hii this is the version 3

C:\Users\user\Desktop\kube_cloud>kubectl rollout -h

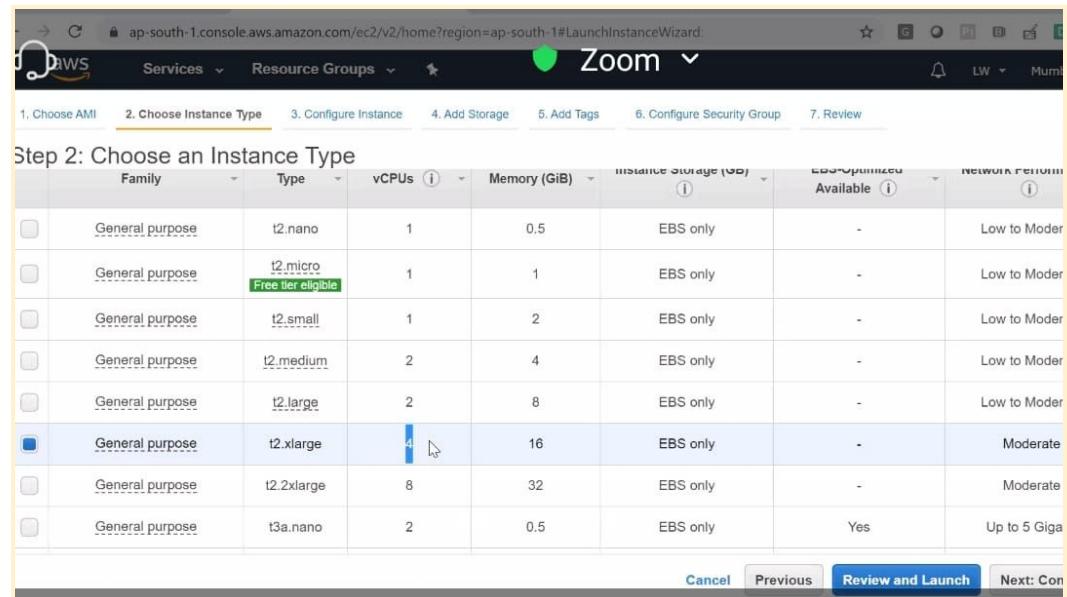
Manage the rollout of a resource.

>>>why openstack is not working

We have two ip public and private ip's

Horizon is the dashboard using python(django framework)
Systemctl status httpd(conf my apache)
We have to use the private ip
To connect to the dashboard of openstack

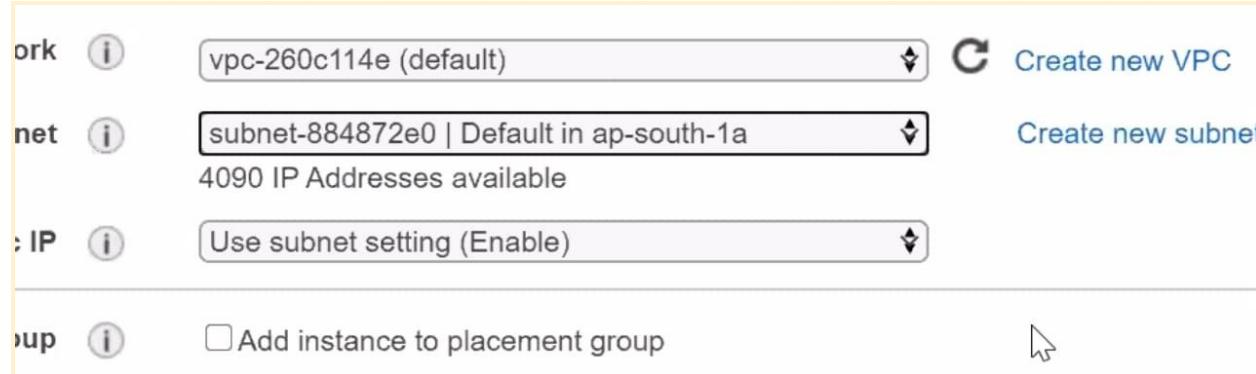
Novnc service is used to give access to the service to the instance console
Novnc is trying to connect to private ip
We have to login using public ip



The screenshot shows the AWS Launch Instance Wizard Step 2: Choose an Instance Type. The t2.xlarge instance type is selected. The table lists various General purpose instance types with their details:

Family	Type	vCPUs	Memory (GiB)	Instance Storage (EBS)	EBS-Optimized Available	Network Performance
General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
General purpose	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate
General purpose	t2.small	1	2	EBS only	-	Low to Moderate
General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
General purpose	t2.large	2	8	EBS only	-	Low to Moderate
General purpose	t2.xlarge	4	16	EBS only	-	Moderate
General purpose	t2.2xlarge	8	32	EBS only	-	Moderate
General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Giga

Below the table are buttons for Cancel, Previous, Review and Launch, and Next: Configuration.



The screenshot shows the AWS Launch Instance Wizard Step 3: Configure Instance. The network settings are being configured:

- Network interface 1: VPC: vpc-260c114e (default), Create new VPC button.
- Subnet: subnet-884872e0 | Default in ap-south-1a, Create new subnet button.
- IP: Use subnet setting (Enable).
- Placement group: Add instance to placement group checkbox.

Network interfaces

Device	Network Interface	Subnet	Primary IP	Secondary IP addresses	IPv6 IPs
eth0	New network interface	subnet-884872eC	Auto-assign	Add IP	Add IP

Advanced Details

Metadata accessible	Enabled
Metadata version	V1 and V2 (token optional)
Metadata token response hop limit	1
User data	<input checked="" type="radio"/> As text <input type="radio"/> As file <input type="checkbox"/> Input is already base64 encoded

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more about storage options in Amazon EC2.](#)

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-0ca465c4930fd32eb	80	General Purpose SSD (gp2)	240 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more about Amazon EC2 security groups.](#)

Assign a security group: Create a new security group Select an existing security group

Security group name: CentOS 7 -x86_64- with Updates HVM-2002_01-AutogenByAWSMP-2

Description: This security group was generated by AWS Marketplace and is based on recom

Type	Protocol	Port Range	Source	Description
All traffic	All	0 - 65535	Anywhere	e.g. SSH for Admin Desktop

Warning
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

⚠ Improve your instances' security. Your security group, CentOS 7 -x86_64 - with Updates HVM-2002_01-AutogenByAWSMP-2, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.

You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

⚠ Your instance configuration is not eligible for the free usage tier

To launch an instance that's eligible for the free usage tier, check your AMI selection, instance type, configuration options, or storage devices. Learn more about [free usage tier](#) eligibility and usage restrictions.

[Don't show me this again](#)

AMI Details

[Edit AMI](#)

 **CentOS 7 (x86_64) - with Updates HVM**

Free tier

CentOS Linux 7 x86_64 HVM EBS ENA 2002_01

[Cancel](#) [Previous](#) [Launch](#)

[Choose AMI](#) [2. Choose Instance Type](#) [3. Configure Instance](#) [4. Add Storage](#) [5. Add Tags](#) [6. Configure Security Group](#) **7. Review**

Step 7: Review Instance Launch

Please review your instance launch details.

⚠ Improve your instances' security. Your security group, CentOS 7 -x86_64 - with Updates HVM-2002_01-AutogenByAWSMP-2, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.

You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

⚠ Your instance configuration is not eligible for the free usage tier

To launch an instance that's eligible for the free usage tier, check your AMI selection, instance type, configuration options, or storage devices. Learn more about [free usage tier](#) eligibility and usage restrictions.

AMI Details

 **CentOS 7 (x86_64) - with Updates HVM**

Free tier

CentOS Linux 7 x86_64 HVM EBS ENA 2002_01

Select an existing key pair or create a new key pair

[X](#)

Complete the launch process.

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

mykey111222

I acknowledge that I have access to the selected private key file (mykey111222.pem), and that without this file, I won't be able to log into my instance.

[Cancel](#) [Launch Instances](#)

ByAWSMP-2, is open to the world. Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.

You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

Learn more about [free usage tier](#) eligibility and usage restrictions.

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[Create Volume](#)

[Actions](#)

Filter by tags and attributes or search by keyword

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Av
openstack-software	vol-0140d71...	30 GiB	gp2	100		July 1, 2020 at 3:55...	ap...
openstack	vol-0582452...	80 GiB	gp2	240	snap-0ca465...	July 2, 2020 at 5:13...	ap...
openstack-class	vol-0717741...	80 GiB	gp2	240	snap-0ca465...	July 3, 2020 at 6:42...	ap...

Volumes: vol-0140d71496575418f (openstack-software)

Description Status Checks Monitoring Tags

Volume ID	vol-0140d71496575418f	Outposts ARN	-
Alarm status	None	Size	30 GiB
Snapshot	-	Created	July 1, 2020 at 3:55:44 PM UTC+5:30
Availability Zone	ap-south-1a	State	in-use
Encryption	Not Encrypted	Attachment information	i-0bca44d0a3632cf0 (openstack)/dev/sdf (attached)
KMS Key ID		Volume type	gp2

[Feedback](#) [English \(US\)](#)

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The screenshot shows three sequential steps in the AWS EC2 Management Console for attaching an EBS volume to an instance.

Step 1: Volume Details

The first screenshot shows the 'Volumes' page. A volume named 'openstack-software' (Volume ID: vol-0140d71496575418f) is selected. The 'Actions' dropdown menu is open, showing options like 'Modify Volume', 'Create Snapshot', 'Delete Volume', and 'Attach Volume'. The 'Attach Volume' option is highlighted.

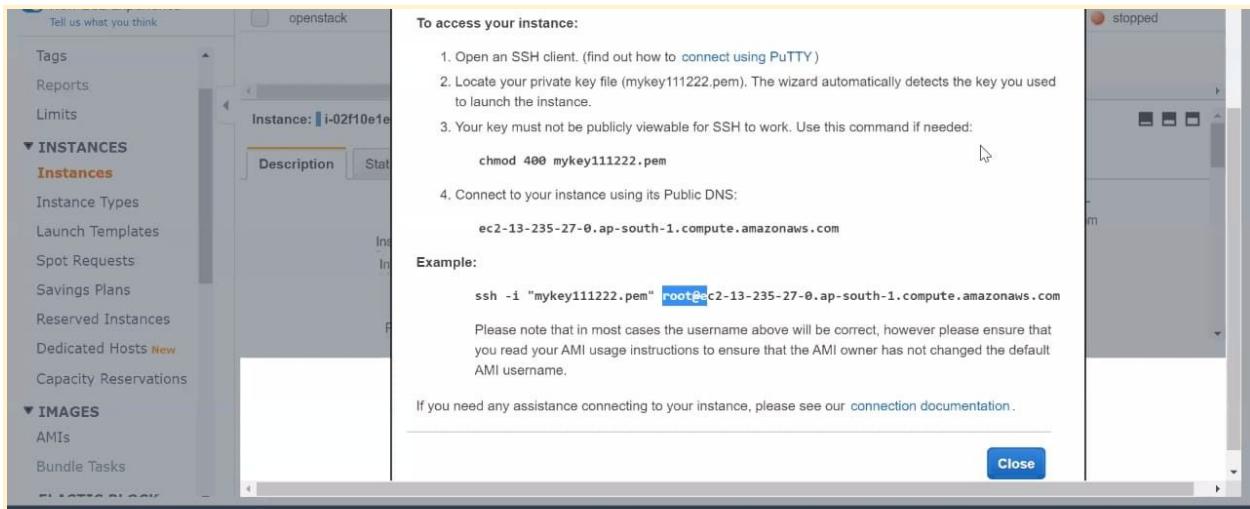
Name	Volume ID	Size	Type	IOPS	Snapshot	Created
openstack	vol-0582452...	80 GiB	gp2	240	snap-0ca465c...	July 2, 2020 at 5:13...
openstack-class	vol-0717741...	80 GiB	gp2	240	snap-0ca465c...	July 3, 2020 at 6:42...
openstack-software	vol-0140d71...	30 GiB	gp2	100		July 1, 2020 at 3:55...

Step 2: Attach Volume Confirmation

The second screenshot shows the 'Attach Volume' confirmation dialog. It lists the selected volume ('openstack-software') and instance ('i-02f10e1e04aad9e88'). The 'Device' field is set to '/dev/sdf'. A note at the bottom states: 'Note: Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.' The 'Attach' button is highlighted.

Step 3: Volume Attached

The third screenshot shows the 'Volumes' page again, but now the 'openstack-software' volume has a green checkmark icon next to it, indicating it is attached to the instance.



The screenshot shows a terminal window titled "Untitled document" with the following content:

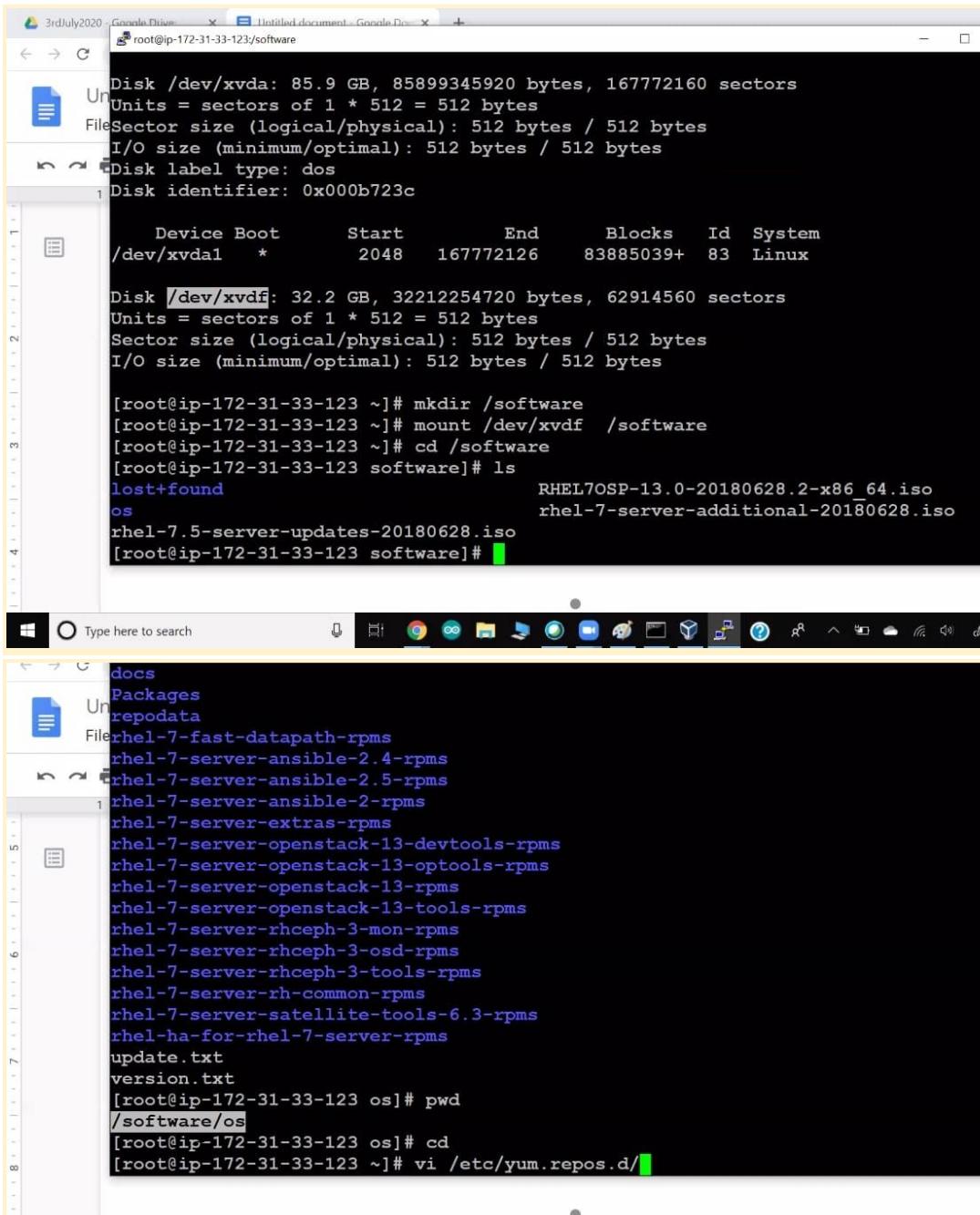
```
Using username "centos".
Authenticating with public key "imported-openssh-key"
[centos@ip-172-31-33-123 ~]$ sudo su -
[root@ip-172-31-33-123 ~]# fdisk -l

Disk /dev/xvda: 85.9 GB, 85899345920 bytes, 167772160 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x000b723c

Device Boot      Start         End      Blocks   Id  System
/dev/xvda1   *        2048    167772126    83885039+   83  Linux

Disk /dev/xvdf: 32.2 GB, 32212254720 bytes, 62914560 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

[root@ip-172-31-33-123 ~]#
```



3rdJuly2020 Untitled document Google Drive

```
root@ip-172-31-33-123:/software
Disk /dev/xvda: 85.9 GB, 85899345920 bytes, 167772160 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x000b723c

Device Boot Start End Blocks Id System
/dev/xvda1 * 2048 167772126 83885039+ 83 Linux

Disk /dev/xvdf: 32.2 GB, 32212254720 bytes, 62914560 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

[root@ip-172-31-33-123 ~]# mkdir /software
[root@ip-172-31-33-123 ~]# mount /dev/xvdf /software
[root@ip-172-31-33-123 ~]# cd /software
[root@ip-172-31-33-123 software]# ls
lost+found
os
rhel-7.5-server-updates-20180628.iso
rhel-7-server-additional-20180628.iso
[root@ip-172-31-33-123 software]#
```

Type here to search

```
docs
Packages
repodata
File
rhel-7-fast-datapath-rpms
rhel-7-server-ansible-2.4-rpms
rhel-7-server-ansible-2.5-rpms
rhel-7-server-ansible-2-rpms
rhel-7-server-extras-rpms
rhel-7-server-openstack-13-devtools-rpms
rhel-7-server-openstack-13-optools-rpms
rhel-7-server-openstack-13-rpms
rhel-7-server-openstack-13-tools-rpms
rhel-7-server-rhceph-3-mon-rpms
rhel-7-server-rhceph-3-osd-rpms
rhel-7-server-rhceph-3-tools-rpms
rhel-7-server-rh-common-rpms
rhel-7-server-satellite-tools-6.3-rpms
rhel-ha-for-rhel-7-server-rpms
update.txt
version.txt
[root@ip-172-31-33-123 os]# pwd
/software/os
[root@ip-172-31-33-123 os]# cd
[root@ip-172-31-33-123 ~]# vi /etc/yum.repos.d/
```

```
root@ip-172-31-33-123:~# ls
Packages
repodata
Un
File
5
2
rhel-7-fast-datapath-rpms
rhel-7-server-ansible-2.4-rpms
rhel-7-server-ansible-2.5-rpms
rhel-7-server-ansible-2-rpms
rhel-7-server-extras-rpms
rhel-7-server-openstack-13-devtools-rpms
rhel-7-server-openstack-13-optools-rpms
rhel-7-server-openstack-13-rpms
rhel-7-server-openstack-13-tools-rpms
rhel-7-server-rhceph-3-mon-rpms
rhel-7-server-rhceph-3-osd-rpms
rhel-7-server-rhceph-3-tools-rpms
rhel-7-server-rh-common-rpms
rhel-7-server-satellite-tools-6.3-rpms
rhel-ha-for-rhel-7-server-rpms
update.txt
version.txt
[root@ip-172-31-33-123 os]# pwd
/software/os
[root@ip-172-31-33-123 os]# cd
[root@ip-172-31-33-123 ~]# vi /etc/yum.repos.d/local.repo
[root@ip-172-31-33-123 ~]#
```

```
3rdJuly2020 - Google Drive Untitled document - Google Docs
root@ip-172-31-33-123:~# ls
rhel-7-fast-datapath-rpms
rhel-7-server-ansible-2.4-rpms
rhel-7-server-ansible-2.5-rpms
rhel-7-server-ansible-2-rpms
rhel-7-server-extras-rpms
rhel-7-server-openstack-13-devtools-rpms
rhel-7-server-openstack-13-optools-rpms
rhel-7-server-openstack-13-rpms
rhel-7-server-openstack-13-tools-rpms
rhel-7-server-rhceph-3-mon-rpms
rhel-7-server-rhceph-3-osd-rpms
rhel-7-server-rhceph-3-tools-rpms
rhel-7-server-rh-common-rpms
rhel-7-server-satellite-tools-6.3-rpms
rhel-ha-for-rhel-7-server-rpms
update.txt
version.txt
[root@ip-172-31-33-123 os]# pwd
/software/os
[root@ip-172-31-33-123 os]# cd
[root@ip-172-31-33-123 ~]# vi /etc/yum.repos.d/local.repo
[root@ip-172-31-33-123 ~]#
[root@ip-172-31-33-123 ~]# yum repolist
```

```
[local]
baseurl=file:///software/os
gpgcheck=0
File
```



```
base/7/x86_64/primary_db | 6.1 MB 00:00
extras/7/x86_64/primary_db | 194 kB 00:00
file:///software/os/repo/repodata/repomd.xml: [Errno 14] curl#37 - "Couldn't open file"
File /os/repo/repodata/repomd.xml"
Trying other mirror.
updates/7/x86_64 | 2.9 kB 00:00
updates/7/x86_64/primary_db | 3.0 MB 00:00
repo id          repo name          stat
base/7/x86_64    CentOS-7 - Base   10,0
extras/7/x86_64  CentOS-7 - Extras  3
local            local               8
updates/7/x86_64 CentOS-7 - Updates 8
repolist: 11,351
[root@ip-172-31-33-123 ~]# vi /etc/yum.repos.d/local.repo
[root@ip-172-31-33-123 ~]# yum repolist
Loaded plugins: fastestmirror
Repository 'local' is missing name in configuration, using id
Loading mirror speeds from cached hostfile
 * base: d36uatko69830t.cloudfront.net
 * extras: d36uatko69830t.cloudfront.net
 * updates: d36uatko69830t.cloudfront.net
local | 2.9 kB 00:00
local/primary_db | 2.0 MB 00:00
```

```
repoList: 11,351
[root@ip-172-31-33-123 ~]# vi /etc/yum.repos.d/local.repo
[root@ip-172-31-33-123 ~]# yum repolist
FileLoaded plugins: fastestmirror
Repository 'local' is missing name in configuration, using id
Loading mirror speeds from cached hostfile
 * base: d36uatko69830t.cloudfront.net
 * extras: d36uatko69830t.cloudfront.net
 * updates: d36uatko69830t.cloudfront.net
local                                         | 2.9 kB  00:00
local/primary_db                           | 2.0 MB  00:00
repo id                                     repo name          status
base/7/x86_64                               CentOS-7 - Base    10,0
extras/7/x86_64                             CentOS-7 - Extras
local                                         local             2,1
updates/7/x86_64                            CentOS-7 - Updates
repolist: 13,477
[root@ip-172-31-33-123 ~]#
[root@ip-172-31-33-123 ~]#
[root@ip-172-31-33-123 ~]# free -m
              total        used        free      shared  buff/cache   available
Mem:       15883         194      15420          16        268     15439
Swap:          0          0          0
[root@ip-172-31-33-123 ~]# lscpu
```

```
Hypervisor vendor: Xen
Virtualization type: full
Unl1d cache: 32K
Filel1i cache: 32K
L2 cache: 256K
L3 cache: 46080K
NUMA node0 CPU(s): 0-3
Flags: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr
cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx pdpe1gb rdtscp lm
t_tsc rep_good nopl xtopology eagerfpu pni pclmulqdq ssse3 fma cx16 pcid
sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand
or lahf_lm abm invpcid_single fsgsbase bmi1 avx2 smep bmi2 erms invpcid
[root@ip-172-31-33-123 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        7.8G   0G  7.8G  0% /dev
tmpfs          7.8G   0G  7.8G  0% /dev/shm
tmpfs          7.8G  17M  7.8G  1% /run
tmpfs          7.8G   0G  7.8G  0% /sys/fs/cgroup
/dev/xvda1      80G  984M  80G  2% /
tmpfs          1.6G   0G  1.6G  0% /run/user/1000
/dev/xvdf      30G  13G  16G  45% /software
[root@ip-172-31-33-123 ~]#
[root@ip-172-31-33-123 ~]#
[root@ip-172-31-33-123 ~]# yum install openstack-packstack
```

```
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root@ip-172-31-33-123:~ python2-pyOpenSSL.noarch 0:17.3.0-4.el7ost
ruby.x86_64 0:2.0.0.648-36.el7
ruby-augeas.x86_64 0:0.5.0-1.el7
ruby-irb.noarch 0:2.0.0.648-36.el7
ruby-libs.x86_64 0:2.0.0.648-36.el7
ruby-shadow.x86_64 0:1.4.1-23.el7ost
rubygem-bigdecimal.x86_64 0:1.2.0-36.el7
rubygem-io-console.x86_64 0:0.4.2-36.el7
rubygem-json.x86_64 0:1.7.7-36.el7
rubygem-psych.x86_64 0:2.0.0-36.el7
rubygem-rdoc.noarch 0:4.0.0-36.el7
rubygem-rgen.noarch 0:0.6.6-2.1.el7
rubygems.noarch 0:2.0.14.1-36.el7

Dependency Updated:
libselinux.x86_64 0:2.5-15.el7      libselinux-python.x86_64 0:2.5-15.el7
libselinux-utils.x86_64 0:2.5-15.el7

Replaced:
python-six.noarch 0:1.9.0-2.el7

Complete!
[root@ip-172-31-33-123 ~]# [root@ip-172-31-33-123 ~]# yum install vi
```

```
3rdJuly2020 Google.Drive Untitled document Google.Drive ~
root@ip-172-31-33-123:~ perl-HTTP-Tiny.noarch 0:0.033-3.el7
perl-PathTools.x86_64 0:3.40-5.el7
perl-Pod-Escapes.noarch 1:1.04-295.el7
perl-Pod-Perldoc.noarch 0:3.20-4.el7
perl-Pod-Simple.noarch 1:3.28-4.el7
perl-Pod-Usage.noarch 0:1.63-3.el7
perl-Scalar-List-Utils.x86_64 0:1.27-248.el7
perl-Socket.x86_64 0:2.010-5.el7
perl-Storable.x86_64 0:2.45-3.el7
perl-Text-ParseWords.noarch 0:3.29-4.el7
perl-Time-HiRes.x86_64 4:1.9725-3.el7
perl-Time-Local.noarch 0:1.2300-2.el7
perl-constant.noarch 0:1.27-2.el7
perl-libs.x86_64 4:5.16.3-295.el7
perl-macros.x86_64 4:5.16.3-295.el7
perl-parent.noarch 1:0.225-244.el7
perl-podlators.noarch 0:2.5.1-3.el7
perl-threads.x86_64 0:1.87-4.el7
perl-threads-shared.x86_64 0:1.43-6.el7
vim-common.x86_64 2:7.4.629-6.el7
vim-filesystem.x86_64 2:7.4.629-6.el7

Complete!
[root@ip-172-31-33-123 ~]# packstack --gen-answer-file=openstack.txt
```

```
3rdJuly2020 Google Drive Untitled document Google Docs ~
root@ip-172-31-33-123:~ perl-Pod-Simple.noarch 1:3.28-4.el7
perl-Pod-Usage.noarch 0:1.63-3.el7
perl-Scalar-List-Utils.x86_64 0:1.27-248.el7
perl-Socket.x86_64 0:2.010-5.el7
perl-Storable.x86_64 0:2.45-3.el7
perl-Text-ParseWords.noarch 0:3.29-4.el7
perl-Time-HiRes.x86_64 4:1.9725-3.el7
perl-Time-Local.noarch 0:1.2300-2.el7
perl-constant.noarch 0:1.27-2.el7
perl-libs.x86_64 4:5.16.3-295.el7
perl-macros.x86_64 4:5.16.3-295.el7
perl-parent.noarch 1:0.225-244.el7
perl-podlators.noarch 0:2.5.1-3.el7
perl-threads.x86_64 0:1.87-4.el7
perl-threads-shared.x86_64 0:1.43-6.el7
vim-common.x86_64 2:7.4.629-6.el7
vim-filesystem.x86_64 2:7.4.629-6.el7

Complete!
[root@ip-172-31-33-123 ~]# packstack --gen-answer-file=openstack.txt
Packstack changed given value to required value /root/.ssh/id_rsa.pub
[root@ip-172-31-33-123 ~]# ls
anaconda-ks.cfg openstack.txt original-ks.cfg
[root@ip-172-31-33-123 ~]#
```

```
3rdJuly2020 Google Drive Untitled document Google Docs ~
root@ip-172-31-33-123:~ perl-Storable.x86_64 0:2.45-3.el7
perl-Text-ParseWords.noarch 0:3.29-4.el7
perl-Time-HiRes.x86_64 4:1.9725-3.el7
perl-Time-Local.noarch 0:1.2300-2.el7
perl-constant.noarch 0:1.27-2.el7
perl-libs.x86_64 4:5.16.3-295.el7
perl-macros.x86_64 4:5.16.3-295.el7
perl-parent.noarch 1:0.225-244.el7
perl-podlators.noarch 0:2.5.1-3.el7
perl-threads.x86_64 0:1.87-4.el7
perl-threads-shared.x86_64 0:1.43-6.el7
vim-common.x86_64 2:7.4.629-6.el7
vim-filesystem.x86_64 2:7.4.629-6.el7

Complete!
[root@ip-172-31-33-123 ~]# packstack --gen-answer-file=openstack.txt
Packstack changed given value to required value /root/.ssh/id_rsa.pub
[root@ip-172-31-33-123 ~]# ls
anaconda-ks.cfg openstack.txt original-ks.cfg
[root@ip-172-31-33-123 ~]# vim openstack.txt
[root@ip-172-31-33-123 ~]#
[root@ip-172-31-33-123 ~]#
[root@ip-172-31-33-123 ~]#
[root@ip-172-31-33-123 ~]# packstack -answer-file=openstack.txt
```

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Instance: i-02f10e1e04aed9e88 (openstack-class) Public DNS: ec2-13-235-27-0.ap-south-1.compute.amazonaws.com

Description Status Checks Monitoring Tags Usage Instructions

Instance ID	Instance State	Instance Type	Public DNS (IPv4)	IPv4 Public IP	IPv6 Public IP	Elastic IPs
i-02f10e1e04aed9e88	running	t2.xlarge	ec2-13-235-27-0.ap-south-1a	13.235.27.0	-	-

Public DNS (IPv4)
ec2-13-235-27-0.ap-south-1a
Copied

IPv4 Public IP
13.235.27.0

IPv6 Public IP
-

Elastic IPs
-

Availability Zone
ap-south-1a

Private DNS
ip-172-31-33-123.ap-south-1a

New EC2 Experience

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Filter by tags and attributes or search by keyword

2 | < < 1 to 2 of 2

Name	App	Env	Instance ID	Instance Type	Availability Zone	Instance State
openstack-class	openstack		i-02f10e1e04aed9e88	t2.xlarge	ap-south-1a	running
			i-0bca44d0a3632cdd6	t2.xlarge	ap-south-1a	stopped

Instance: i-02f10e1e04aed9e88 (openstack-class) Public DNS: ec2-13-235-27-0.ap-south-1.compute.amazonaws.com

Description Status Checks Monitoring Tags Usage Instructions

Instance ID	Public DNS (IPv4)	Public DNS (IPv6)
i-02f10e1e04aed9e88	ec2-13-235-27-0.ap-south-1.compute.amazonaws.com	13.235.27.0.ap-south-1a

Public DNS (IPv4) Copied

IPv4 Public IP 13.235.27.0.ap-south-1a

IPv6 IPs -

Elastic IPs -

Instance state running

Instance type t2.xlarge

Finding Opt-in to AWS Compute Optimizer for recommendations. Learn more

Private DNS ip-172-31-33-123.ap-south-

Availability zone ap-south-1a

Testing 123..

This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page it means that this site is working properly. This server is powered by CentOS.

Just visiting?

The website you just visited is either experiencing problems or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting www.example.com, you should send e-mail to "webmaster@example.com".

Are you the Administrator?

You should add your website content to the directory `/var/www/html/`. To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

Promoting Apache and CentOS

You are free to use the images below on Apache and CentOS Linux powered HTTP servers. Thanks for using Apache and CentOS!



Additional information:

- * Time synchronization installation was skipped. Please note that unsynchronize d time on server instances might be problem for some OpenStack components.

- * File /root/keystonerc_admin has been created on OpenStack client host 172.31.33.123. To use the command line tools you need to source the file.

- * To access the OpenStack Dashboard browse to <http://172.31.33.123/dashboard>. Please, find your login credentials stored in the keystonerc_admin in your home directory.

- * The installation log file is available at: /var/tmp/packstack/20200703-132211-TqDnct/openstack-setup.log

- * The generated manifests are available at: /var/tmp/packstack/20200703-132211-TqDnct/manifests

```
[root@ip-172-31-33-123 ~]# free -m
total        used         free      shared  buff/cache   available
Mem:       15883          7149        6442          24        2292        8363
Swap:            0           0           0           0           0           0
```

```
[root@ip-172-31-33-123 ~]# ls
[root@ip-172-31-33-123 ~]# ls
anaconda-ks.cfg  keystonerc_demo  original-ks.cfg
keystonerc_admin  openstack.txt
```

```
[root@ip-172-31-33-123 ~]# source keystonerc_admin
[root@ip-172-31-33-123 ~]# openstack
```

```
[root@ip-172-31-33-123 ~]#
[root@ip-172-31-33-123 ~]# ls
anaconda-ks.cfg      keystonerc_demo  original-ks.cfg
keystonerc_admin  openstack.txt
[root@ip-172-31-33-123 ~]# source  keystonerc_admin
[root@ip-172-31-33-123 ~]# openstack service list
+----+-----+-----+
| ID | Name | Type |
+----+-----+-----+
| 05b6f0cfb18d450ea0e4489c84afbb78 | aodh | alarming |
| 0ecccf04cf7541ff7bd6d449735b7e074 | neutron | network |
| 1542e33296f74a6a97237d478efffea02 | ceilometer | metering |
| 1f890705023c44d2891acba1bcd8715 | cinderv2 | volumev2 |
| 49db720494d84274b627c046aade5d74 | nova | compute |
| 4dc867eb306b4a5ab416f020c0a18912 | swift | object-store |
| 7785e8edd4d04c08b885119b60d96c15 | gnocchi | metric |
| 7aa5978872734cd6833281ac90512b5a | cinderv3 | volumev3 |
| 7aeca7421ff34e90b82dabe17cc8ab7a | cinder | volume |
| 8b4c5dc46224d5e97e5ac725f2e9bb9 | glance | image |
| eb13cc1795564d94a4ce7a55a13bcc60c | placement | placement |
| f6b5e869866e4a9699a5f0f9218231b1 | keystone | identity |
+----+-----+-----+
[root@ip-172-31-33-123 ~]# glance image-list
```

□

1715 x 695px

■

100%

```
[root@ip-172-31-33-123 ~]# cd /etc/httpd/conf.d/
[root@ip-172-31-33-123 conf.d]#
[root@ip-172-31-33-123 conf.d]# ls
00-nova-placement-api.conf      10-placement_wsgi.conf      README
10-aodh_wsgi.conf               15-default.conf          userdir.conf
10-gnocchi_wsgi.conf            15-horizon_vhost.conf  welcome.conf
10-keystone_wsgi_admin.conf     autoindex.conf
10-keystone_wsgi_main.conf      openstack-dashboard.conf
[root@ip-172-31-33-123 conf.d]# █
```

```
[root@ip-172-31-33-123 ~]# keystone-admin]# cd /etc/httpd/conf.d/
[root@ip-172-31-33-123 conf.d(keystone-admin)]#
[root@ip-172-31-33-123 conf.d(keystone-admin)]# ls
00-nova-placement-api.conf          10-placement_wsgi.conf      README
10-aodh_wsgi.conf                  15-default.conf           userdir.conf
10-gnocchi_wsgi.conf              15-horizon_vhost.conf    welcome.conf
10-keystone_wsgi_admin.conf        autoindex.conf
10-keystone_wsgi_main.conf         openstack-dashboard.conf
[root@ip-172-31-33-123 conf.d(keystone-admin)]# vim 15-horizon_vhost.conf
```

```
# Logging
ErrorLog "/var/log/httpd/horizon_error.log"
ServerSignature Off
CustomLog "/var/log/httpd/horizon_access.log" combined

## RedirectMatch rules
RedirectMatch permanent ^/$ /dashboard

# Server aliases
ServerAlias 172.31.33.123
ServerAlias ip-172-31-33-123.ap-south-1.compute.internal
ServerAlias localhost
WSGIApplicationGroup %{GLOBAL}
WSGIDaemonProcess apache display-name=horizon group=apache processes=3 threads
=10 user=apache
WSGIProcessGroup apache
WSGIScriptAlias /dashboard "/usr/share/openstack-dashboard/openstack_dashboard
/wsgi/django.wsgi"
</VirtualHost>
~
~
```

```
root@ip-172-31-33-123:/etc/httpd/conf.d
# Logging
ErrorLog "/var/log/httpd/horizon_error.log"
ServerSignature Off
CustomLog "/var/log/httpd/horizon_access.log" combined

# RedirectMatch rules
RedirectMatch permanent ^/$ /dashboard

# Server aliases
ServerAlias 13.235.27.0
ServerAlias 172.31.33.123
ServerAlias ip-172-31-33-123.ap-south-1.compute.internal
ServerAlias localhost

WSGIApplicationGroup %{GLOBAL}
WSGIDaemonProcess apache display-name=horizon group=apache processes=3 threads
=10 user=apache
WSGIProcessGroup apache
WSGIScriptAlias /dashboard "/usr/share/openstack-dashboard/openstack_dashboard"
/wsgi/django.wsgi"
</VirtualHost>
<VirtualHost *:80>
</VirtualHost>

-- INSERT --

```

```
[root@ip-172-31-33-123 ~]# cd /etc/httpd/conf.d/
[root@ip-172-31-33-123 conf.d(keystone_admin)]# ls
00-nova-placement-api.conf          10-placement_wsgi.conf      README
10-aodh_wsgi.conf                  15-default.conf           userdir.conf
10-gnocchi_wsgi.conf              15-horizon_vhost.conf  welcome.conf
10-keystone_wsgi_admin.conf        autoindex.conf
10-keystone_wsgi_main.conf         openstack-dashboard.conf
[root@ip-172-31-33-123 conf.d(keystone_admin)]# vim 15-horizon_vhost.conf
[root@ip-172-31-33-123 conf.d(keystone_admin)]#
[root@ip-172-31-33-123 conf.d(keystone_admin)]#
[root@ip-172-31-33-123 conf.d(keystone_admin)]# systemctl restart httpd
```

← → ⌂

① Not secure | 13.235.170/dashboard/auth/login/?next=/dashboard/

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RED HAT OPENSTACK PLATFORM

If you are not sure which authentication method to use, contact your administrator.

User Name *

•

Connect

Password *

•



```
root@ip-172-31-33-123:/etc/httpd/conf.d
# vhost directive
DocumentRoot "/var/www/"
# Alias declarations for resources outside the DocumentRoot
Alias /dashboard/static "/usr/share/openstack-dashboard/static"
# Directories, there should at least be a declaration for /var/www/
<Directory "/var/www/">
    Options Indexes FollowSymlinks MultiViews
    AllowOverride None
    Require all granted
</Directory>
# Logging
ErrorLog "/var/log/httpd/horizon_error.log"
ServerSignature Off
CustomLog "/var/log/httpd/horizon_access.log" combined
# RedirectMatch rules
RedirectMatch permanent ^/$ /dashboard
# Server aliases
ServerAlias 13.235.27.0
"15-horizon_vhost.conf" 39L, 1239C
```

← → ⌂ alt:fedoraproject.org/cloud/

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Fedora 32 Cloud Base Images

Fedora Cloud Base images are for creating general purpose virtual machines (VMs). You can use the Qcow 2 image for use with OpenStack or the compressed raw image. If you are not sure what to use, try the raw image.



Cloud Base compressed raw image

195MB raw.xz image

[Download](#) | [Verify](#)



Cloud Base image for Openstack

319MB qcow2 image

[Download](#) | [Verify](#)

Fedora 32 Cloud Base Images for Vagrant

These images are Vagrant Boxes images for deployment using Vagrant. If you're using Vagrant on Mac OS X or Windows, the VirtualBox image is likely the image you'll want to use. If you're using Vagrant on Fedora, use the libvirt/KVM image.



```
root@ip-172-31-33-123:~# wget -1.14-18.el7_6.1.x86_64.rpm
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction

  Installing : wget-1.14-18.el7_6.1.x86_64 | 547 kB 00:00
  Verifying  : wget-1.14-18.el7_6.1.x86_64           1/1
                                         1/1

Installed:
  wget.x86_64 0:1.14-18.el7_6.1

Complete!
[root@ip-172-31-33-123 ~ (keystone_admin)]#
[root@ip-172-31-33-123 ~(keystone_admin)]#
[root@ip-172-31-33-123 ~(keystone_admin)]# wget https://download.fedoraproject.org/pub/fedora/linux/releases/32/Cloud/x86_64/images/Fedora-Cloud-Base-32-1.6.x86_64.qcow2
--2020-07-03 14:47:47-- https://download.fedoraproject.org/pub/fedora/linux/releases/32/Cloud/x86_64/images/Fedora-Cloud-Base-32-1.6.x86_64.qcow2https://downlo
ad.fedoraproject.org/pub/fedora/linux/releases/32/Cloud/x86_64/images/Fedora-Clo
ud-Base-32-1.6.x86_64.qcow2
Resolving download.fedoraproject.org (download.fedoraproject.org) ... [REDACTED]
It is likely the image you want to use. If you're using vagrant on fedora, use the mvdurkvm image.
```

```
root@ip-172-31-33-123:~ | 547 kB 00:00
wget-1.14-18.el7_6.1.x86_64.rpm
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : wget-1.14-18.el7_6.1.x86_64
Verifying : wget-1.14-18.el7_6.1.x86_64
1/1
1/1

Installed:
wget.x86_64 0:1.14-18.el7_6.1

Complete!
[root@ip-172-31-33-123 ~ (keystone_admin)]#
[root@ip-172-31-33-123 ~(keystone_admin)]#
[root@ip-172-31-33-123 ~(keystone_admin)]# wget https://download.fedoraproject.org/pub/fedora/linux/releases/32/Cloud/x86_64/images/Fedora-Cloud-Base-32-1.6.x86_64.qcow2
[root@ip-172-31-33-123 ~ (keystone_admin)]# wget https://download.fedoraproject.org/pub/fedora/linux/releases/32/Cloud/x86_64/qcow2https://download.fedoraproject.org/pub/fedora/linux/releases/32/Cloud/x86_64/images/Fedora-Cloud-Base-32-1.6.x86_64.qcow2
--2020-07-03 14:47:47-- https://download.fedoraproject.org/pub/fedora/linux/releases/32/Cloud/x86_64/images/Fedora-Cloud-Base-32-1.6.x86_64.qcow2https://download.fedoraproject.org/pub/fedora/linux/releases/32/Cloud/x86_64/images/Fedora-Cloud-Base-32-1.6.x86_64.qcow2
Resolving download.fedoraproject.org (download.fedoraproject.org)...
Is likely the image you want to use. If you're using vagrant on Fedora, use the mvdw/f27vmlinu
```

A screenshot of a terminal window with a yellow border. The terminal is displaying a search operation across multiple files. The search term is 'keystones-admin.ln'. The results show several matches in different files, primarily 'keystore.ln' and 'keystores-admin.ln'. The search command used is 'grep -r "keystones-admin.ln" *'.

```
[root@IP-172-31-33-123 ~]# grep -r "keystones-admin.ln" *
[keystore.ln]root@IP-172-31-33-123 ~ (keystones-admin.ln) # cd
[keystore.ln]root@IP-172-31-33-123 ~ (keystones-admin.ln) # cd
[keystore.ln]root@IP-172-31-33-123 ~ (keystones-admin.ln) # wget
[keystore.ln]root@IP-172-31-33-123 ~ (keystones-admin.ln) # wget
[root@IP-172-31-33-123 ~ (keystones-admin.ln)]# yum install wget -y
```

← → ⌂ ⓘ Not secure | 13.235.27.0/dashboard/project/images

RED HAT OPENSTACK PLATFORM

Project ▾

Project

Identity

Compute

Volumes ▾

Network ▾

Object Store ▾

Overview Instances Images Key Pairs

Project / Compute / Images

m

Q Click here for filters

Displaying 1 item

X + Create item

Name ▾	Type	Status	Visibility	Protected	Disk Format	Size
clms	Image	Active	Public	No	QCOW2	273 bytes

Displaying 1 item

← → ⌂ ⓘ Not secure | 13.235.27.0/dashboard/project/images

RED HAT OPENSTACK PLATFORM Project Monthly

Project ▾ Compute Volumes Network Object Stores Object Stores ▾

Overview Instances Images Key Pairs

Project / Compute / Images

m

q Click here for filters

Displaying 2 items

Name	Type	Status	Visibility	Protected	Disk Format	Size
cirros	Image	Active	Public	No	QCOMV2	273 bytes
fed32	Image	Active	Shared	No	QCOMV2	288.81 MB

Displaying 2 items

+ Create image

```
root@ip-172-31-33-123:~# glance image-list
+---+
| ID | Name |
+---+
| 2c871c59-c03b-4a63-a571-29194a40d79f | cirros |
| d6206d70-38c1-4e08-bc01-7b425dd55c9d | fed32 |
+---+
[root@ip-172-31-33-123 ~ (keystone_demo)]# nova list
+---+
| ID | Name | Status | Task State | Power State | Networks |
+---+
| [root@ip-172-31-33-123 ~ (keystone_demo)]# |
| [root@ip-172-31-33-123 ~ (keystone_demo)]# |
| [root@ip-172-31-33-123 ~ (keystone_demo)]# |
| [root@ip-172-31-33-123 ~ (keystone_demo)]# virsh
```

```
[root@ip-172-31-33-123 ~ (keystone_demo)]# glance image-list
```

ID	Name
2c871c59-c03b-4a63-a571-29194a40d79f	cirros
d6206d70-38c1-4e08-bc01-7b425dd55c9d	fed32
Instances	
[root@ip-172-31-33-123 ~ (keystone_demo)]#	
[root@ip-172-31-33-123 ~ (keystone_demo)]#	
[root@ip-172-31-33-123 ~ (keystone_demo)]#	
[root@ip-172-31-33-123 ~ (keystone_demo)]# nova list	
ID	Name
Status	Task State
Power State	Networks
State	

```
[root@ip-172-31-33-123 ~ (keystone_demo)]# virsh list
```

```
[root@ip-172-31-33-123 ~]# glance image-list
+-----+
| [root@ip-172-31-33-123 ~ (keystone_demo)]# glance image-list
+-----+
| ID | Name |
+-----+
| 2c871c59-c03b-4a63-a571-29194a40d79f | cirros |
| d6206d70-38c1-4e08-bc01-7b425dd55c9d | fed32 |
+-----+
[root@ip-172-31-33-123 ~ (keystone_demo)]# nova list
+-----+
| [root@ip-172-31-33-123 ~ (keystone_demo)]# nova list
+-----+
| ID | Name | Status | Task State | Power State | Networks |
+-----+
+-----+
| [root@ip-172-31-33-123 ~ (keystone_demo)]# nova list
+-----+
| [root@ip-172-31-33-123 ~ (keystone_demo)]# nova list
+-----+
| [root@ip-172-31-33-123 ~ (keystone_demo)]# nova list
+-----+
| [root@ip-172-31-33-123 ~ (keystone_demo)]# virsh list
+-----+
| Id Name State
+-----+
[1] 123
```

```
[root@ip-172-31-33-123 ~ (keystone_demo)]#
```

```
root@ip-172-31-33-123:~
```

--access-ip-v6 <value> Alternative access IPv6 of the instance.

--description <description> Description for the server. (Supported by API versions '2.19' - '2.latest')

--tags <tags> Tags for the server. Tags must be separated by commas: --tags <tag1,tag2> (Supported by API versions '2.52' - '2.latest')

```
[root@ip-172-31-33-123 ~]# nova boot --nic net-name=private --flavor ml.small --image fed32 os1
```

ERROR (CommandError): No Image matching fed32. (HTTP 404)

```
[root@ip-172-31-33-123 ~]# [root@ip-172-31-33-123 ~]# [root@ip-172-31-33-123 ~]# nova boot --nic net-name=private --flavor ml.small --image fed32 os1
```

ERROR (CommandError): No Image matching fed32. (HTTP 404)

```
[root@ip-172-31-33-123 ~]# glance image-list
```

ID	Name
2c871c59-c03b-4a63-a571-29194a40d79f	cirros

```
[root@ip-172-31-33-123 ~]# glance image-create --file Fedora-Cloud-Base-32-1.6.x86_64.qcow2 --disk-format qcow2 --container-format bare --name fed32
```

```
[root@ip-172-31-33-123 ~]# glance image-list
+-----+
| ID      | Name   |
+-----+
| 2c871cc59-c03b-4a63-a571-29194a40d79f | cirros |
| b2cealca-3e8e-4776-baa3-fa6746f309bf | fed32  |
+-----+
[root@ip-172-31-33-123 ~ (keystone_demo)]# glance image-create --file Fedora-Cloud-Base-32-1.6.x86_64.qcow2 --disk-format qcow2 --container-format bare
--name fed32
```

```
| tags | [ ]  
| tenant_id | 3912a949edbb4c3da0a8b62e0460a8e5  
| updated | 2020-07-03T14:54:55Z  
| user_id | 9d1a5459594b4e17ac4fd5ea9502454b  
+-----+  
[root@ip-172-31-33-123 ~ (keystone_demo)]# nova list  
+-----+  
| ID | Name | Status | Task State | Power Sta  
te | Networks |  
+-----+  
| 48118fbc-7cb5-4942-96a3-781eb67561ca | Hello | ERROR | - | NOSTATE  
| 6b0b1d08-176b-4ed8-b7af-b8b14fd290c7 | os1 | BUILD | spawning | NOSTATE  
+-----+  
[root@ip-172-31-33-123 ~ (keystone_demo)]#
```

172.31.33.123

x +

→ X O 13.235.27.0:5180/vnc_auto.html?token=410e1c90-4f1b-4e8e-a0f2-3bd604d4b0f9&title=0516b0b1d08-176b-4ed8-b...



This site can't be reached

172.31.33.123 took too long to respond.

Try:

- Checking the connection
- Checking the proxy and the firewall
- Running Windows Network Diagnostics

ERR_CONNECTION_TIMED_OUT

[Reload](#)

[Details](#)