Assessment 2

Submitted by

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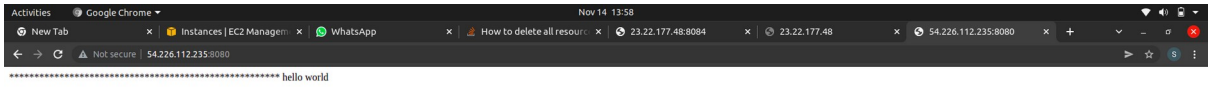
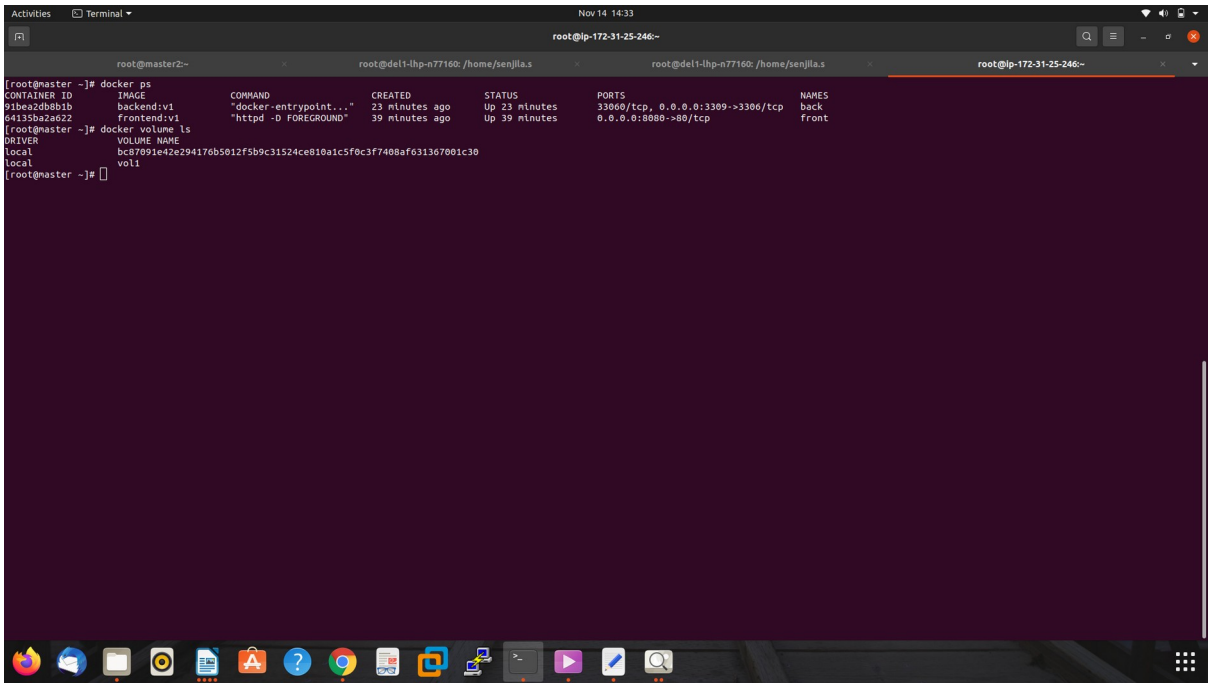
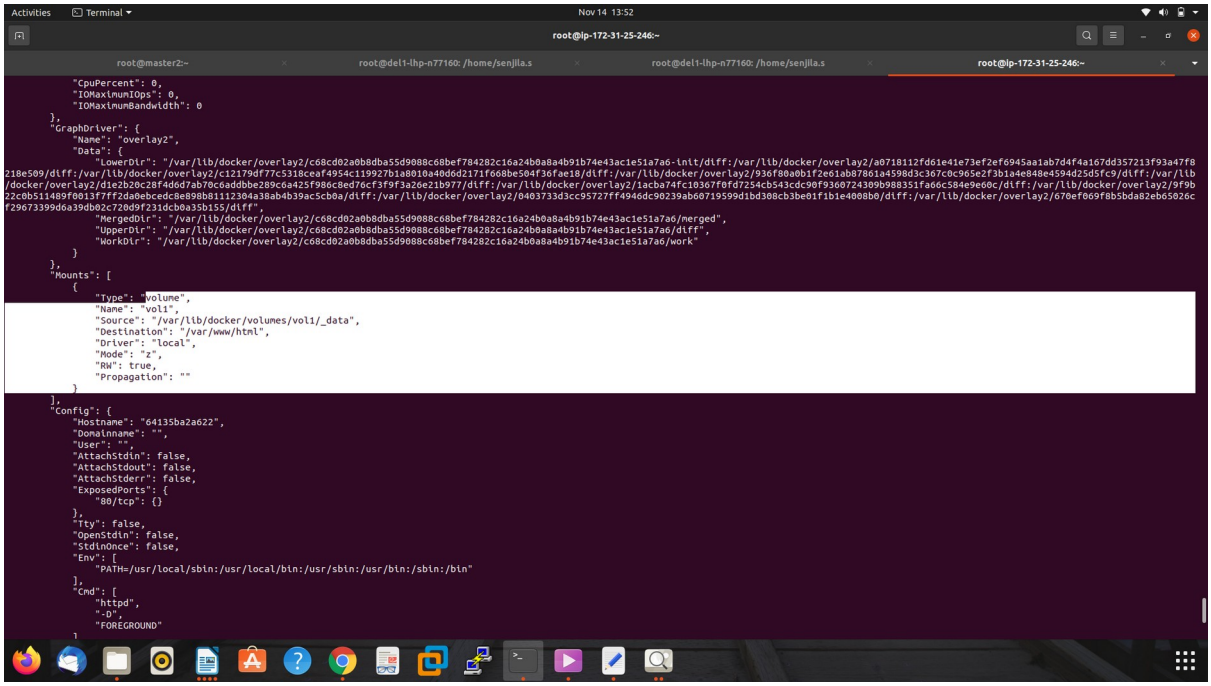
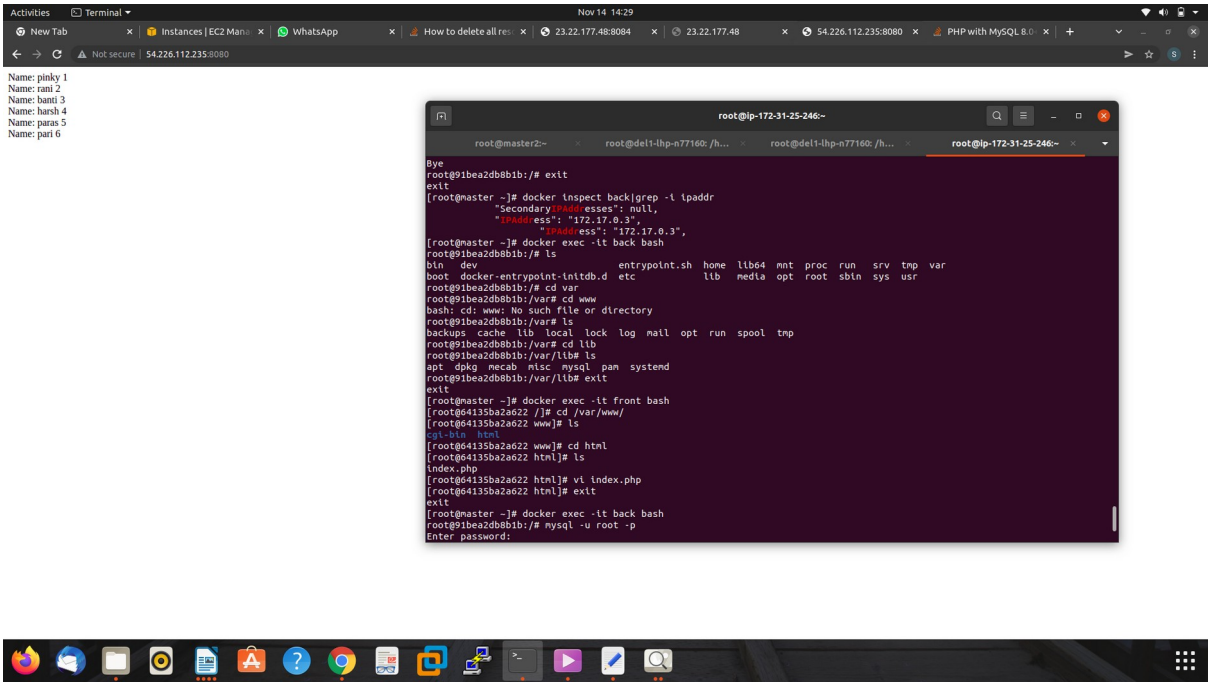
1] Configure 2 container , on one Backend container [database server] and other frontend container web server through which you should access backend container , give volume of your docker hosts to avoid loss of data

Solution:






Activities
Terminal
Nov 14 13:52
root@ip-172-31-25-246:~
root@master2:~
root@del1-lhp-n77160: /home/senjila.s
root@del1-lhp-n77160: /home/senjila.s
root@ip-172-31-25-246:~
"CpuPercent": 0,
"IOMaximumIOps": 0,
"IOMaximumBandwidth": 0
},
"GraphDriver": {
"Name": "overlay2",
"Data": {
"LowerDir": "/var/lib/docker/overlay2/c68cd02a0b8dba55d9088c68bef784282c16a24b0a8a4b91b74e43ac1e51a7a6-init/diff:/var/lib/docker/overlay2/a0718112fd61e41e73ef2ef6945aa1ab7d4f4a167dd357213f93a47f8218e509/diff:/var/lib/docker/overlay2/c12179df77c5318ceaf4954c119927b1a8010a40d6d2171f668be504f36fae18/diff:/var/lib/docker/overlay2/936f80a0b1f2e61ab87861a4598d3c367c0c965e2f3b1a4e848e4594d25d5fc9/diff:/var/lib/docker/overlay2/d1e2b20c28f4d6d7ab70c6addbbe289c6a425f986c8ed76cf3f9f3a26e21b977/diff:/var/lib/docker/overlay2/1acba74fc10367f8fd7254cb543cdc90f936072430 9b988351fa66c584e9e60c/diff:/var/lib/docker/overlay2/9f9b22c0b5114809f0013f7f2da8ebcedc8e898b81112304a38ab4b39ac5cb0a/diff:/var/lib/docker/overlay2/0403733d3cc95727ff4946dc90239ab607195999d1bd308cb3be01f1b1e4088b0/diff:/var/lib/docker/overlay2/670ef069f8b5bda82eb65026cf29673399d6a39db02c720d9f231dcb0a35b155/diff",
"MergedDir": "/var/lib/docker/overlay2/c68cd02a0b8dba55d9088c68bef784282c16a24b0a8a4b91b74e43ac1e51a7a6/merged",
"UpperDir": "/var/lib/docker/overlay2/c68cd02a0b8dba55d9088c68bef784282c16a24b0a8a4b91b74e43ac1e51a7a6/diff",
"WorkDir": "/var/lib/docker/overlay2/c68cd02a0b8dba55d9088c68bef784282c16a24b0a8a4b91b74e43ac1e51a7a6/work"
}
},
"Mounts": [
{
"Type": "volume",
"Name": "vol1",
"Source": "/var/lib/docker/volumes/vol1/_data",
"Destination": "/var/www/html",
"Driver": "local",
"Mode": "z",
"RW": true,
"Propagation": ""
}
],
"Config": {
"Hostname": "64135ba2a622",
"Domainname": "",
"User": "",
"AttachStdin": false,
"AttachStdout": false,
"AttachStderr": false,
"ExposedPorts": {
"80/tcp": {}
},
"Tty": false,
"OpenStdin": false,
"StdinOnce": false,
"Env": [
"PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
],
"Cmd": [
"httpd",
"-D",
"FOREGROUND"


Activities
Terminal
Nov 14 14:29
New Tab
Instances | EC2 Mana
WhatsApp
How to delete all res
23.22.177.48:8084
23.22.177.48
54.226.112.235:8080
PHP with MySQL 8.0
Not secure
54.226.112.235:8080
Name: pinky 1
Name: rani 2
Name: banti 3
Name: harsh 4
Name: paras 5
Name: pari 6
root@ip-172-31-25-246:~
root@master2:~
root@del1-lhp-n77160: /h...
root@del1-lhp-n77160: /h...
root@ip-172-31-25-246:~
Bye
root@91bea2db8b1b:/# exit
exit
[root@master ~]# docker inspect back|grep -i ipaddr
"SecondaryIPAddresses": null,
"IPAddress": "172.17.0.3",
"IPAddress": "172.17.0.3",
[root@master ~]# docker exec -it back bash
root@91bea2db8b1b:/# ls
bin dev entrypoint.sh home lib64 mnt proc run srv tmp var
boot docker-entrypoint-initdb.d etc lib media opt root sbin sys usr
root@91bea2db8b1b:/# cd var
root@91bea2db8b1b:/var# cd www
bash: cd: www: No such file or directory
root@91bea2db8b1b:/var# ls
backups cache lib local lock log mail opt run spool tmp
root@91bea2db8b1b:/var# cd lib
root@91bea2db8b1b:/var/lib# ls
apt dpkg mecab misc mysql pam systemd
root@91bea2db8b1b:/var/lib# exit
exit
[root@master ~]# docker exec -it front bash
[root@64135ba2a622 /]# cd /var/www/
[root@64135ba2a622 www]# ls
cgi-bin html
[root@64135ba2a622 www]# cd html
[root@64135ba2a622 html]# ls
index.php
[root@64135ba2a622 html]# vi index.php
[root@64135ba2a622 html]# exit
exit
[root@master ~]# docker exec -it back bash
root@91bea2db8b1b:/# mysql -u root -p
Enter password:

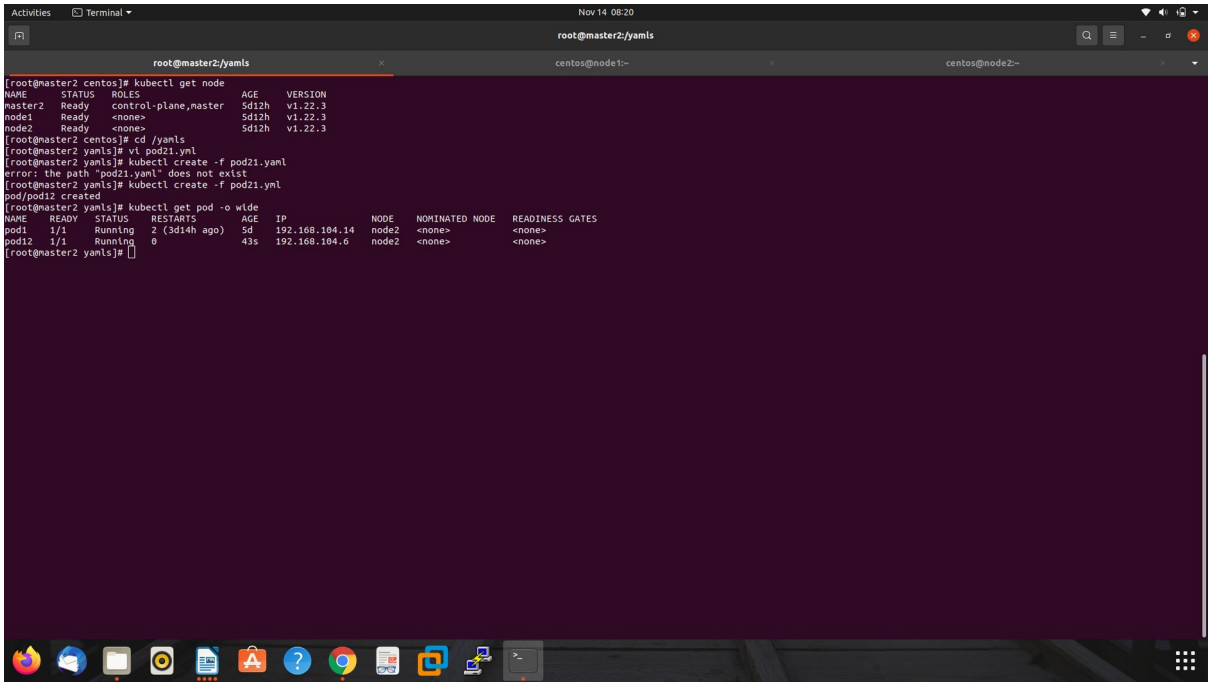
2]On kubernetive cluster configure POD and deployment with imperative and declarative method

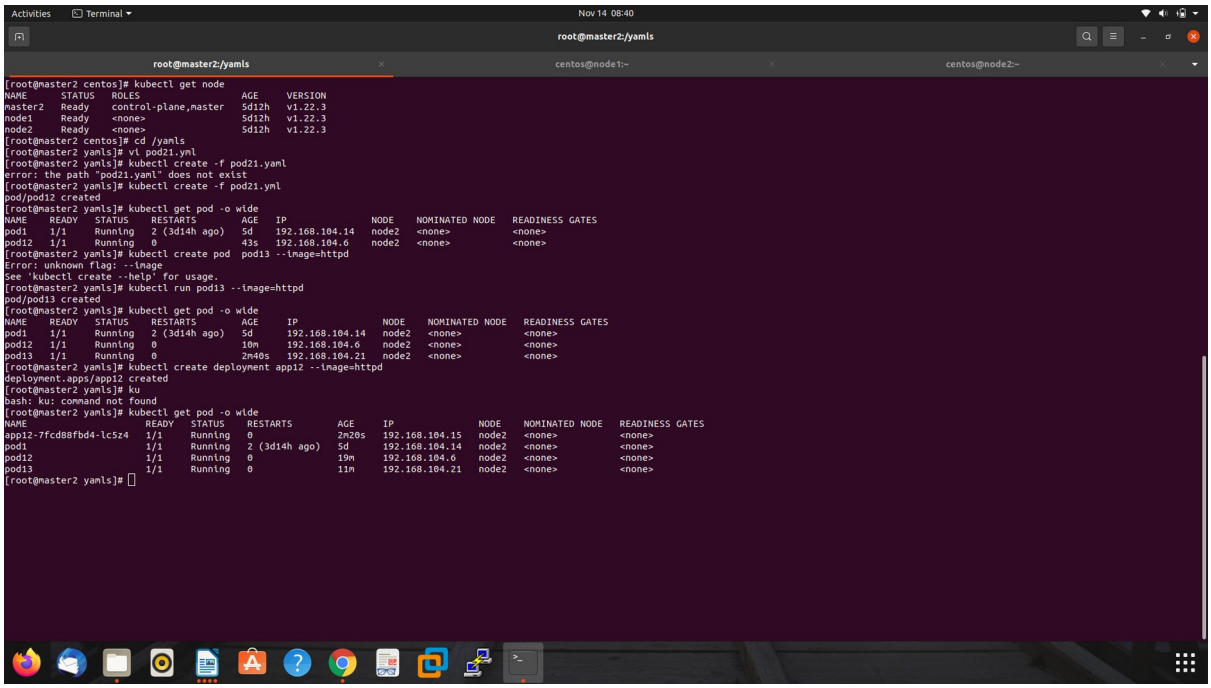
Assign label to your POD , show auto healing ,auto scaling screenshot , assign NodPort to your pod

Access it through public browser

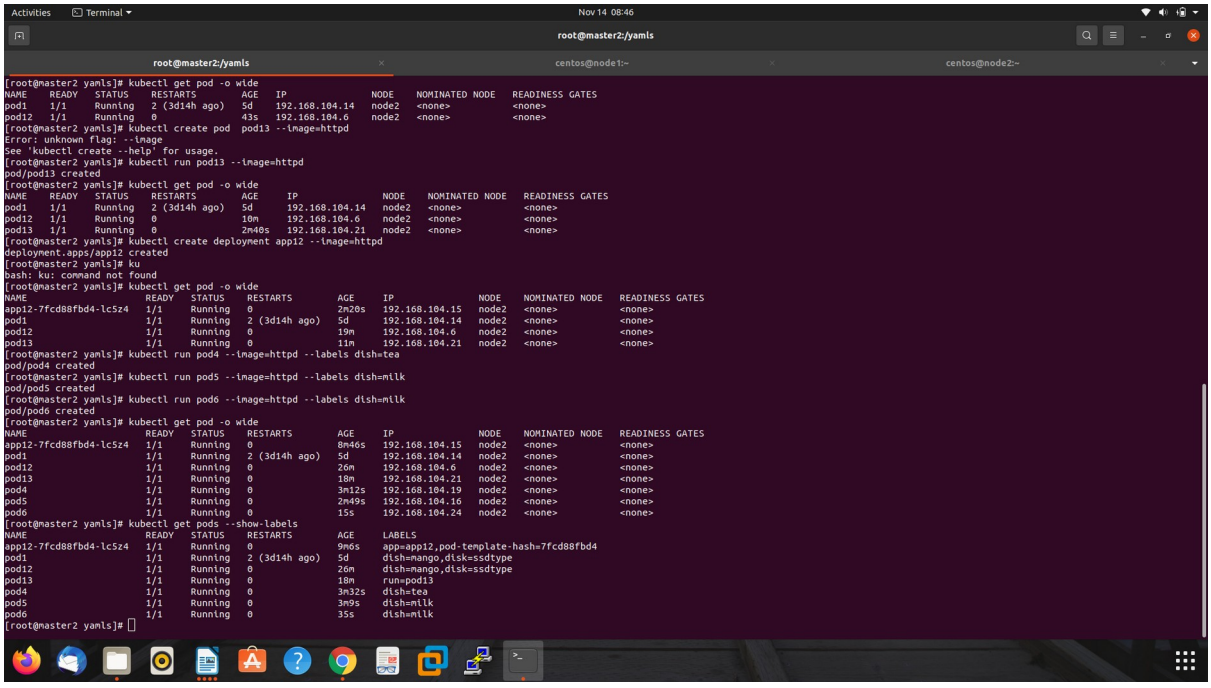
solution:

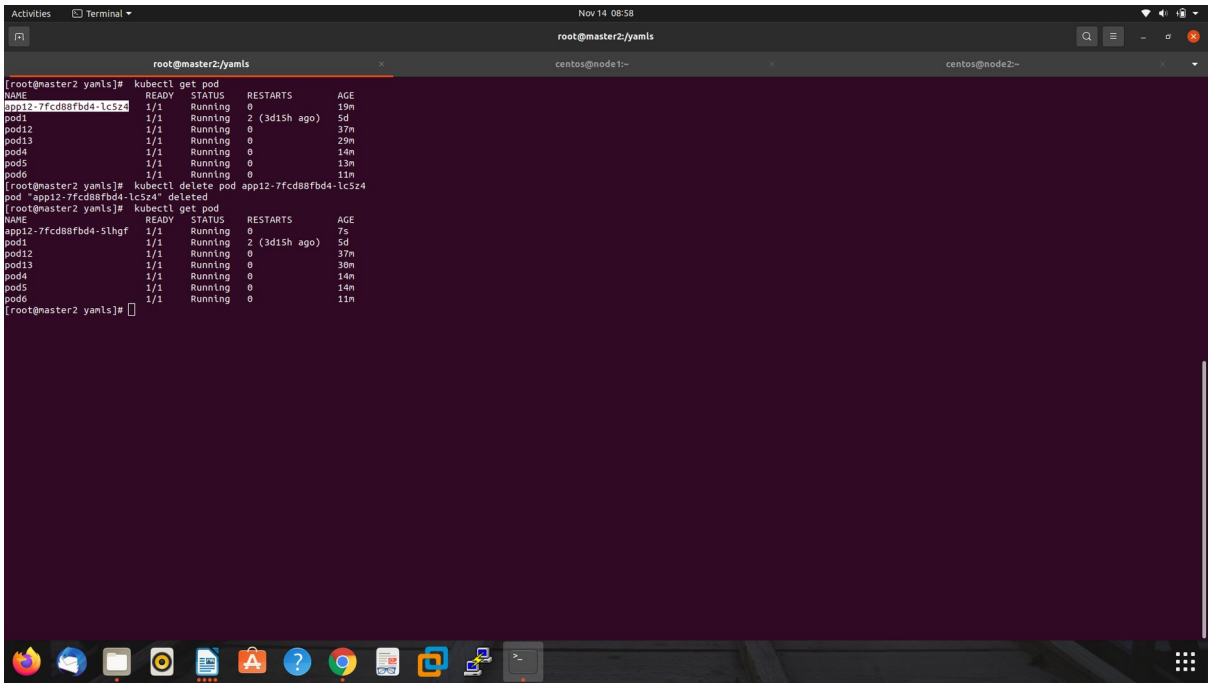
kubernetive cluster configure

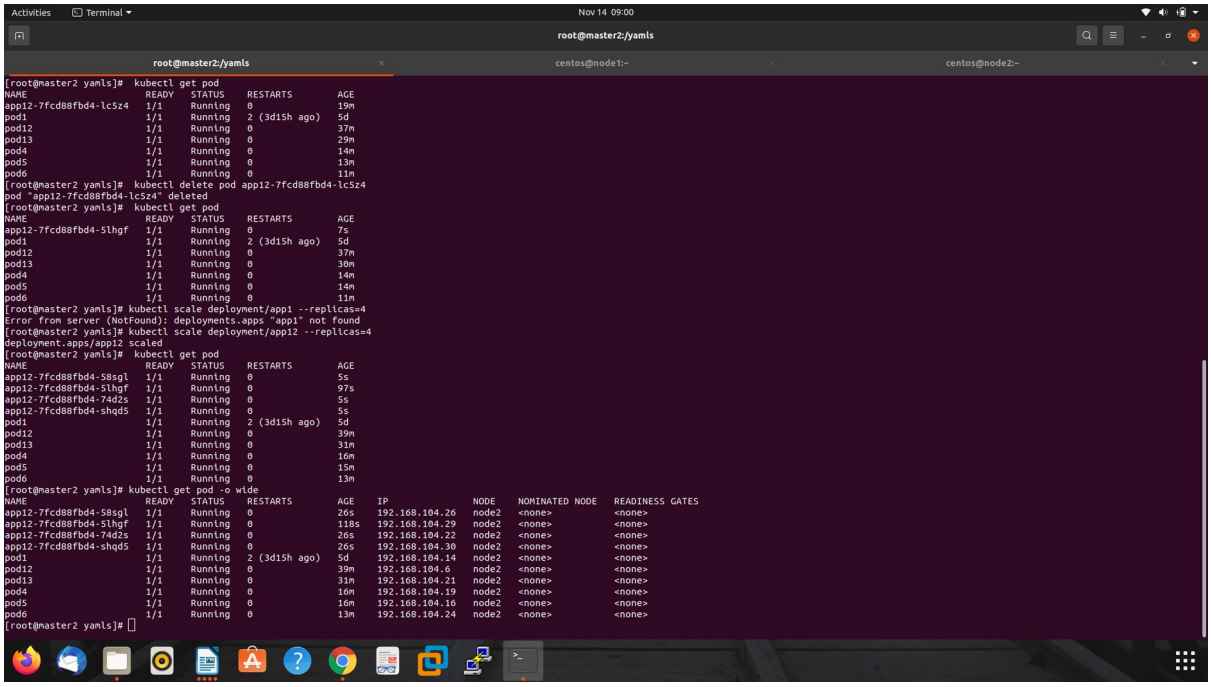


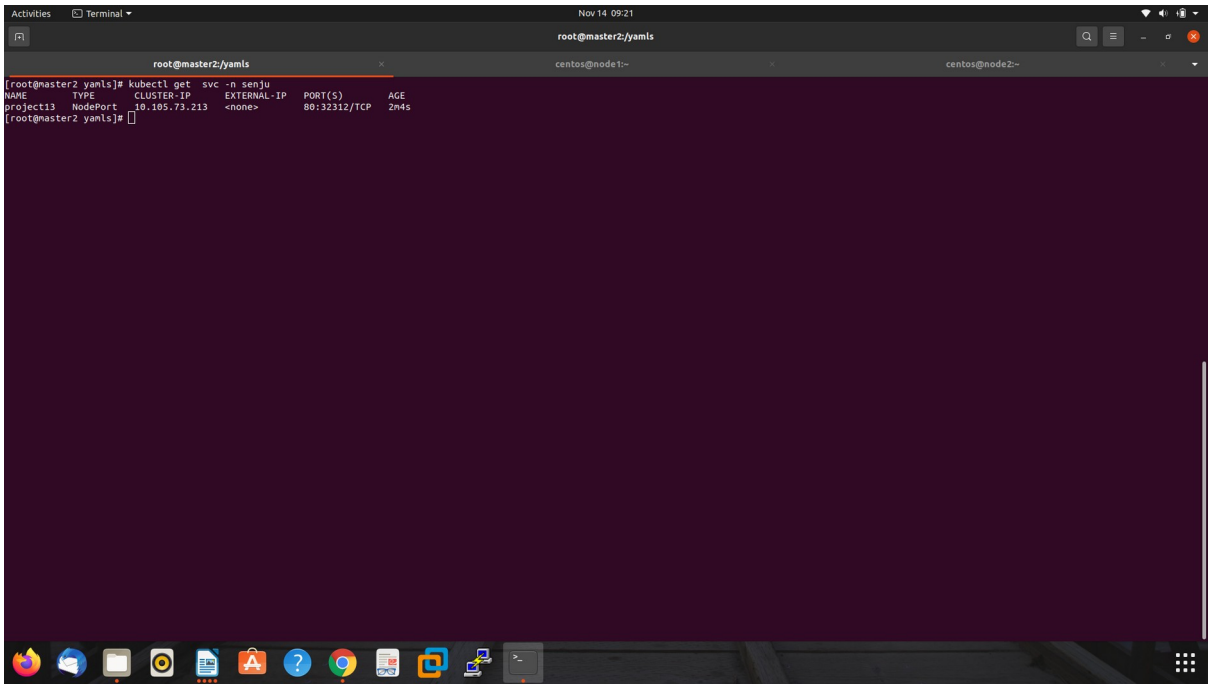


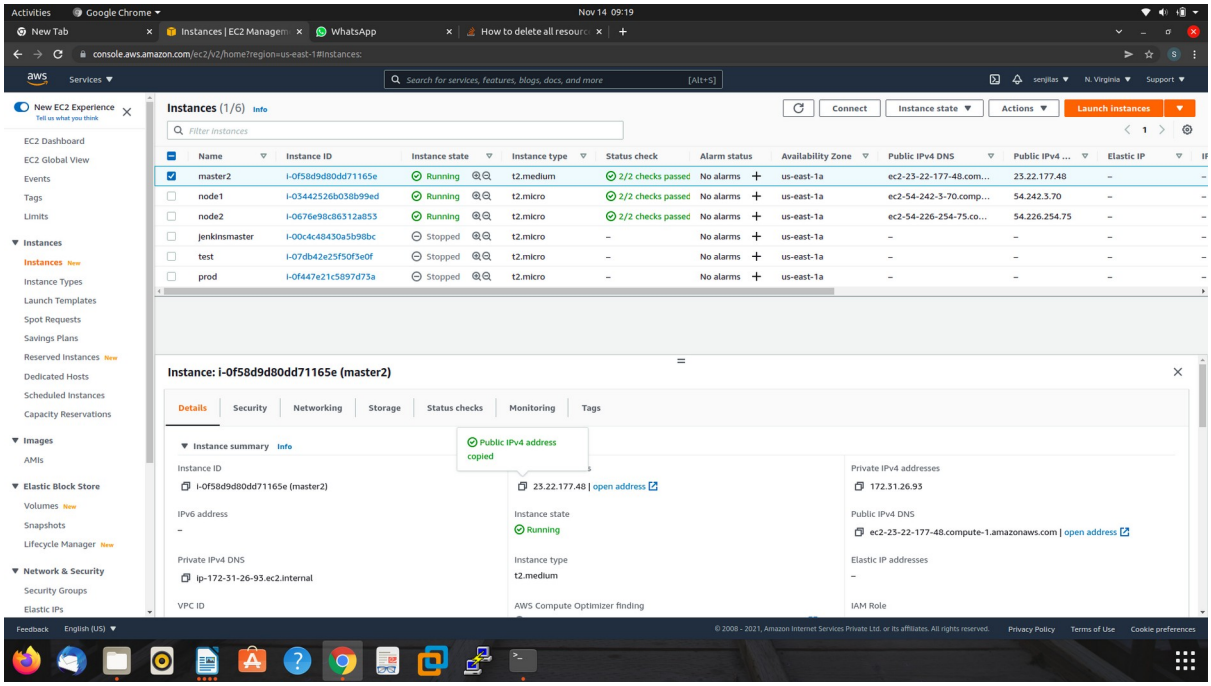
Assign label to your POD , show auto healing ,auto scaling screenshot




Activities
Terminal
Nov 14 08:58
root@master2:/yamls
root@master2:/yamls
centos@node1:~
centos@node2:~
[root@master2 yamls]# kubectl get pod
NAME READY STATUS RESTARTS AGE
app12-7fcd88fbd4-lc5z4 1/1 Running 0 19m
pod1 1/1 Running 2 (3d15h ago) 5d
pod12 1/1 Running 0 37m
pod13 1/1 Running 0 29m
pod4 1/1 Running 0 14m
pod5 1/1 Running 0 13m
pod6 1/1 Running 0 11m
[root@master2 yamls]# kubectl delete pod app12-7fcd88fbd4-lc5z4
pod "app12-7fcd88fbd4-lc5z4" deleted
[root@master2 yamls]# kubectl get pod
NAME READY STATUS RESTARTS AGE
app12-7fcd88fbd4-5lhgf 1/1 Running 0 7s
pod1 1/1 Running 2 (3d15h ago) 5d
pod12 1/1 Running 0 37m
pod13 1/1 Running 0 30m
pod4 1/1 Running 0 14m
pod5 1/1 Running 0 14m
pod6 1/1 Running 0 11m
[root@master2 yamls]#


Activities
Terminal
Nov 14 09:00
root@master2:/yamls
root@master2:/yamls
centos@node1:~
centos@node2:~
[root@master2 yamls]# kubectl get pod
NAME READY STATUS RESTARTS AGE
app12-7fcd88fbd4-lc5z4 1/1 Running 0 19m
pod1 1/1 Running 2 (3d15h ago) 5d
pod12 1/1 Running 0 37m
pod13 1/1 Running 0 29m
pod4 1/1 Running 0 14m
pod5 1/1 Running 0 13m
pod6 1/1 Running 0 11m
[root@master2 yamls]# kubectl delete pod app12-7fcd88fbd4-lc5z4
pod "app12-7fcd88fbd4-lc5z4" deleted
[root@master2 yamls]# kubectl get pod
NAME READY STATUS RESTARTS AGE
app12-7fcd88fbd4-5lhgf 1/1 Running 0 7s
pod1 1/1 Running 2 (3d15h ago) 5d
pod12 1/1 Running 0 37m
pod13 1/1 Running 0 30m
pod4 1/1 Running 0 14m
pod5 1/1 Running 0 14m
pod6 1/1 Running 0 11m
[root@master2 yamls]# kubectl scale deployment/app1 --replicas=4
Error from server (NotFound): deployments.apps "app1" not found
[root@master2 yamls]# kubectl scale deployment/app12 --replicas=4
deployment.apps/app12 scaled
[root@master2 yamls]# kubectl get pod
NAME READY STATUS RESTARTS AGE
app12-7fcd88fbd4-58sgl 1/1 Running 0 5s
app12-7fcd88fbd4-5lhgf 1/1 Running 0 97s
app12-7fcd88fbd4-74d2s 1/1 Running 0 5s
app12-7fcd88fbd4-shqd5 1/1 Running 0 5s
pod1 1/1 Running 2 (3d15h ago) 5d
pod12 1/1 Running 0 39m
pod13 1/1 Running 0 31m
pod4 1/1 Running 0 16m
pod5 1/1 Running 0 15m
pod6 1/1 Running 0 13m
[root@master2 yamls]# kubectl get pod -o wide
NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES
app12-7fcd88fbd4-58sgl 1/1 Running 0 26s 192.168.104.26 node2 <none> <none>
app12-7fcd88fbd4-5lhgf 1/1 Running 0 118s 192.168.104.29 node2 <none> <none>
app12-7fcd88fbd4-74d2s 1/1 Running 0 26s 192.168.104.22 node2 <none> <none>
app12-7fcd88fbd4-shqd5 1/1 Running 0 26s 192.168.104.30 node2 <none> <none>
pod1 1/1 Running 2 (3d15h ago) 5d 192.168.104.14 node2 <none> <none>
pod12 1/1 Running 0 39m 192.168.104.6 node2 <none> <none>
pod13 1/1 Running 0 31m 192.168.104.21 node2 <none> <none>
pod4 1/1 Running 0 16m 192.168.104.19 node2 <none> <none>
pod5 1/1 Running 0 16m 192.168.104.16 node2 <none> <none>
pod6 1/1 Running 0 13m 192.168.104.24 node2 <none> <none>
[root@master2 yamls]#


Activities
Terminal
Nov 14 09:21
root@master2:/yamls
root@master2:/yamls
centos@node1:~
centos@node2:~
[root@master2 yamls]# kubectl get svc -n senju
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
project13 NodePort 10.105.73.213 <none> 80:32312/TCP 2m4s
[root@master2 yamls]#


Activities
Google Chrome
Nov 14 09:19
New Tab
Instances | EC2 Manageme
WhatsApp
How to delete all resourc
console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:
Services
Search for services, features, blogs, docs, and more [Alt+S]
senjilas
N. Virginia
Support
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes New
Snapshots
Lifecycle Manager New
Network & Security
Security Groups
Elastic IPs
Instances (1/6) Info
Filter instances
Connect
Instance state
Actions
Launch instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
Public IPv4 ...
Elastic IP
master2 i-0f58d9d80dd71165e Running t2.medium 2/2 checks passed No alarms us-east-1a ec2-23-22-177-48.com... 23.22.177.48
node1 i-03442526b038b99ed Running t2.micro 2/2 checks passed No alarms us-east-1a ec2-54-242-3-70.comp... 54.242.3.70
node2 i-0676e98c86312a853 Running t2.micro 2/2 checks passed No alarms us-east-1a ec2-54-226-254-75.co... 54.226.254.75
jenkinsmaster i-00c4c48430a5b98bc Stopped t2.micro No alarms us-east-1a
test i-07db42e25f50f5e0f Stopped t2.micro No alarms us-east-1a
prod i-0f447e21c5897d73a Stopped t2.micro No alarms us-east-1a
Instance: i-0f58d9d80dd71165e (master2)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Public IPv4 address copied
Instance summary Info
Instance ID
i-0f58d9d80dd71165e (master2)
IPv6 address
–
Private IPv4 DNS
ip-172-31-26-93.ec2.internal
VPC ID
23.22.177.48 | open address
Instance state
Running
Instance type
t2.medium
AWS Compute Optimizer finding
Private IPv4 addresses
172.31.26.93
Public IPv4 DNS
ec2-23-22-177-48.compute-1.amazonaws.com | open address
Elastic IP addresses
–
IAM Role
Feedback
English (US)
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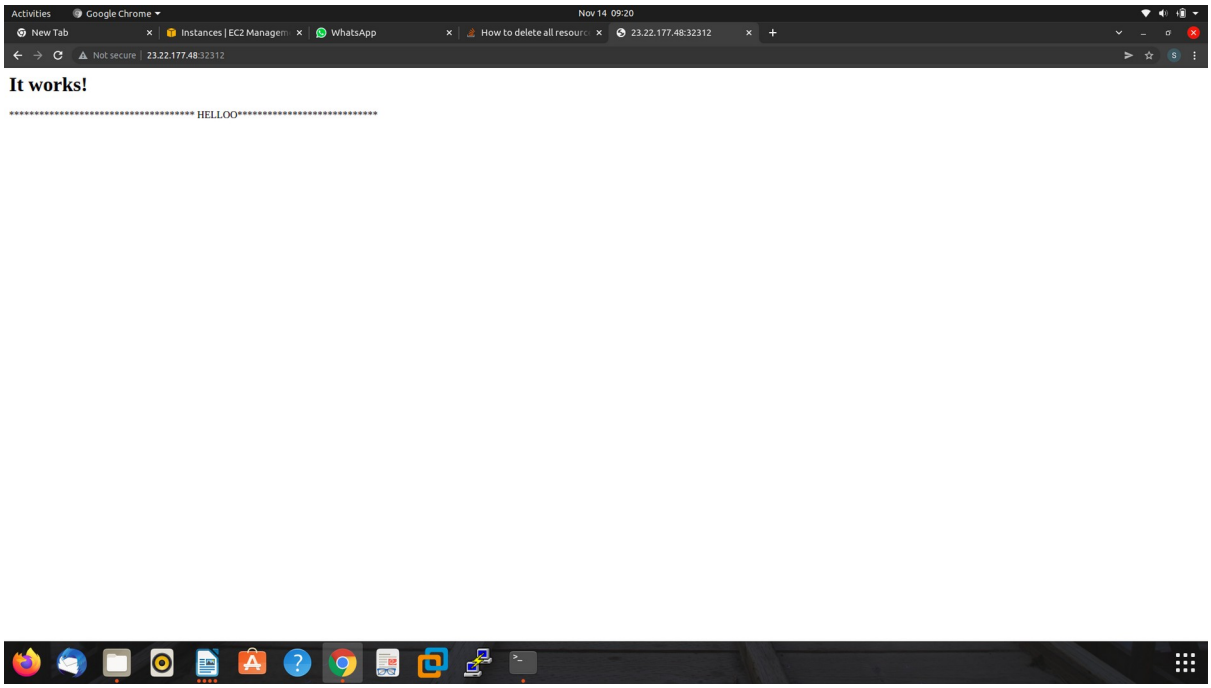
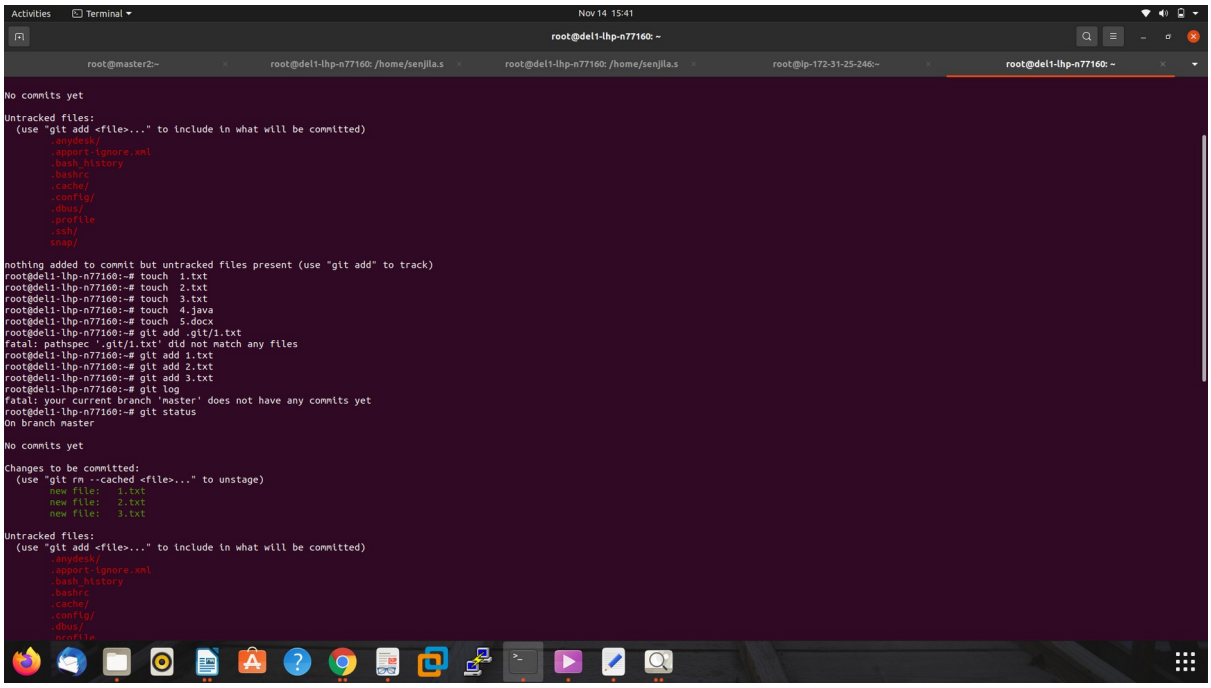
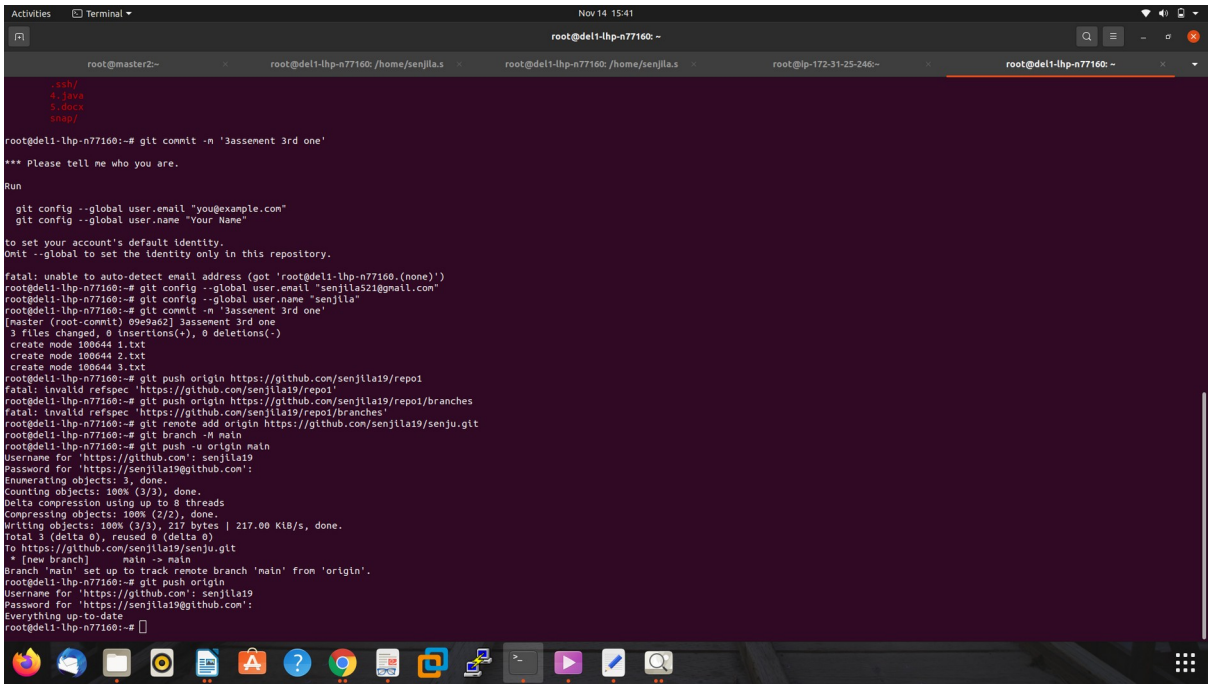
Privacy Policy
Terms of Use
Cookie preferences

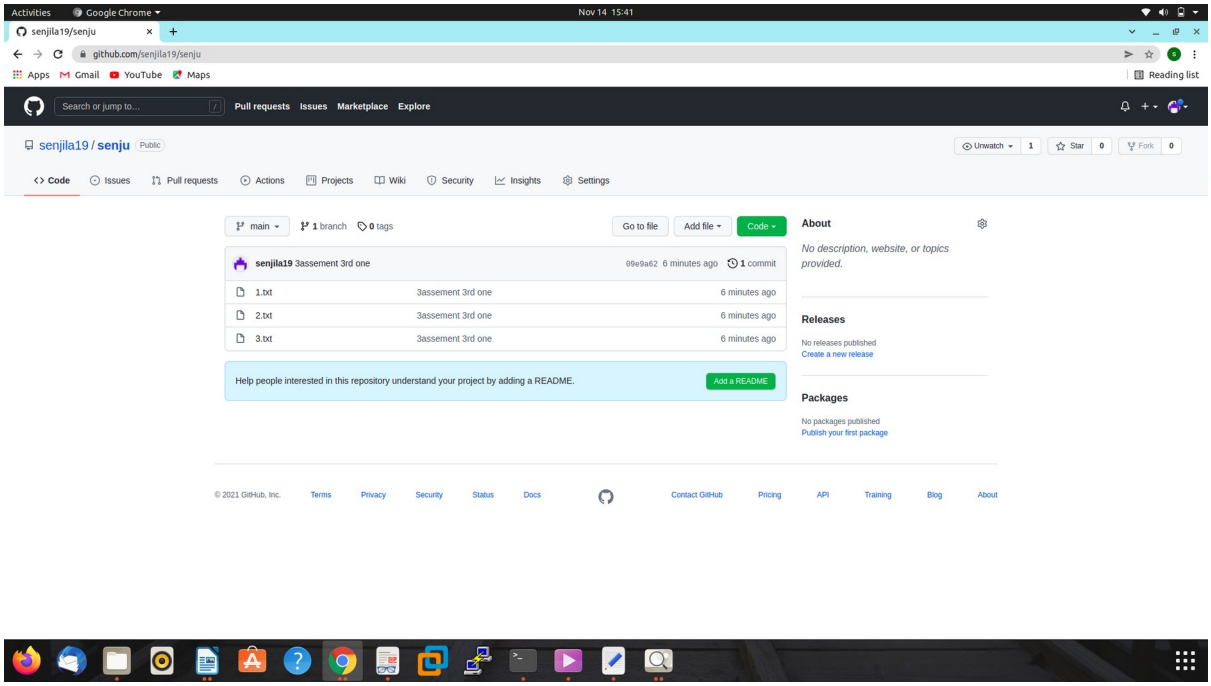


3]In your Git account create 1.txt ,2.txt ,3.txt ,4.java ,5.doc file only txt files push it into central repository,

solution:




Activities
Terminal
Nov 14 15:41
root@del1-lhp-n77160: ~
root@master2:~
root@del1-lhp-n77160: /home/senjila.s
root@del1-lhp-n77160: /home/senjila.s
root@ip-172-31-25-246:~
root@del1-lhp-n77160: ~
.ssh/
4.java
5.docx
snap/
root@del1-lhp-n77160:~# git commit -m '3assement 3rd one'
*** Please tell me who you are.
Run
git config --global user.email "you@example.com"
git config --global user.name "Your Name"
to set your account's default identity.
Omit --global to set the identity only in this repository.
fatal: unable to auto-detect email address (got 'root@del1-lhp-n77160.(none)')
root@del1-lhp-n77160:~# git config --global user.email "senjila521@gmail.com"
root@del1-lhp-n77160:~# git config --global user.name "senjila"
root@del1-lhp-n77160:~# git commit -m '3assement 3rd one'
[master (root-commit) 09e9a62] 3assement 3rd one
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 1.txt
create mode 100644 2.txt
create mode 100644 3.txt
root@del1-lhp-n77160:~# git push origin https://github.com/senjila19/repo1
fatal: invalid refspec 'https://github.com/senjila19/repo1'
root@del1-lhp-n77160:~# git push origin https://github.com/senjila19/repo1/branches
fatal: invalid refspec 'https://github.com/senjila19/repo1/branches'
root@del1-lhp-n77160:~# git remote add origin https://github.com/senjila19/senju.git
root@del1-lhp-n77160:~# git branch -M main
root@del1-lhp-n77160:~# git push -u origin main
Username for 'https://github.com': senjila19
Password for 'https://senjila19@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 217 bytes | 217.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/senjila19/senju.git
* [new branch] main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
root@del1-lhp-n77160:~# git push origin
Username for 'https://github.com': senjila19
Password for 'https://senjila19@github.com':
Everything up-to-date
root@del1-lhp-n77160:~#


Activities
Google Chrome
Nov 14 15:41
senjila19/senju
github.com/senjila19/senju
Apps
Gmail
YouTube
Maps
Reading list
Search or jump to...
Pull requests
Issues
Marketplace
Explore
senjila19 / senju
Public
Unwatch 1
Star 0
Fork 0
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
main
1 branch
0 tags
Go to file
Add file
Code
senjila19 3assement 3rd one
09e9a62 6 minutes ago
1 commit
1.txt
3assement 3rd one
6 minutes ago
2.txt
3assement 3rd one
6 minutes ago
3.txt
3assement 3rd one
6 minutes ago
Help people interested in this repository understand your project by adding a README.
Add a README
About
No description, website, or topics provided.
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package
© 2021 GitHub, Inc.
Terms
Privacy
Security
Status
Docs
Contact GitHub
Pricing
API
Training
Blog
About