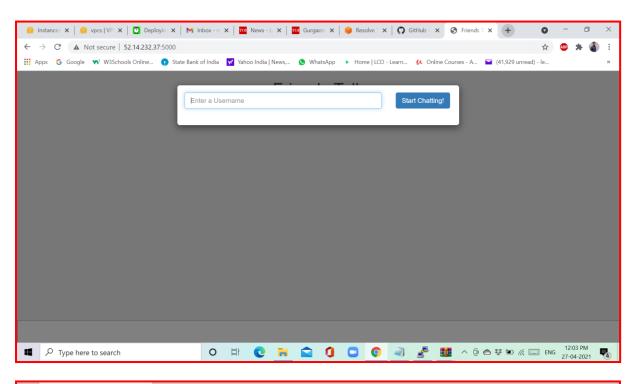
AWS Project: -3

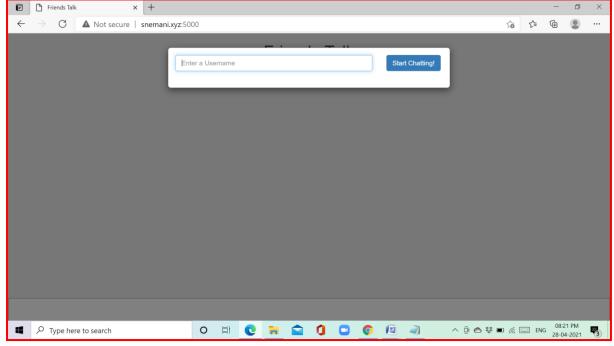
Project Date: - 27.04.2021

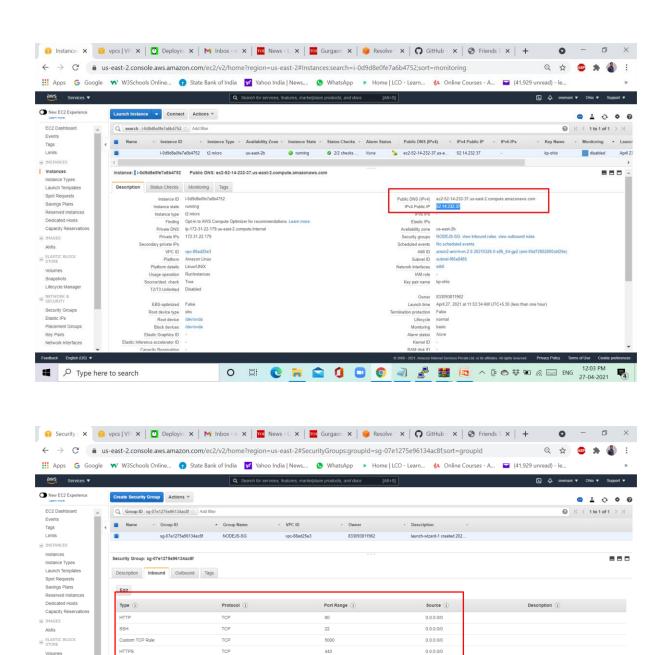
Prepared by: – Sarveswara Sarma Nemani

Q:- Create a **Chatting app** in Public server and host the server with Domain

Sol:







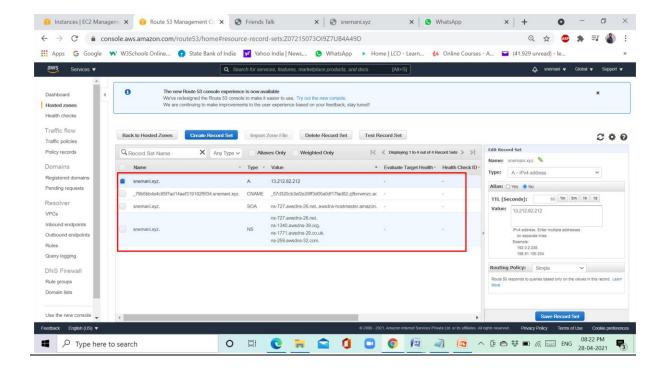
O 🛱 🕝 😭 😭 🚺 🖸 🄞 🦸 🎜 🐯 🚾 ^ 0 4 \$ \$ \$ 6 \$ \$ \$ \$ 7.04-2021}

Snapshots
Lifecycle Manager

NETWORK &
SECURITY

Security Groups

Type here to search



Terminal Logs:-

login as: ec2-user

Authenticating with public key "imported-openssh-key"

https://aws.amazon.com/amazon-linux-2/

[ec2-user@ip-172-31-22-179 ~]\$ sudo -i

[root@ip-172-31-22-179 $^$]# curl -o- https://raw.githubusercontent.com/creationix /nvm/v0.33.11/install.sh | bash

% Total % Received % Xferd Average Speed Time Time Current

Dload Upload Total Spent Left Speed

100 12819 100 12819 0 0 90914 0 --:--:-- 90914

- => Downloading nvm as script to '/root/.nvm'
- => Appending nvm source string to /root/.bashrc
- => Appending bash completion source string to /root/.bashrc
- => Close and reopen your terminal to start using nvm or run the following to use it now:

```
export NVM_DIR="$HOME/.nvm"
[-s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh" # This loads nvm
[-s "$NVM_DIR/bash_completion" ] && \. "$NVM_DIR/bash_completion" # This loads nvm bash_completion
[root@ip-172-31-22-179 ~]# . ~/.nvm/nvm.sh
[root@ip-172-31-22-179 ~]# nvm install 8.10
```

Downloading and installing node v8.10.0...

Downloading https://nodejs.org/dist/v8.10.0/node-v8.10.0-linux-x64.tar.xz...

Computing checksum with sha256sum

Checksums matched!

Now using node v8.10.0 (npm v5.6.0)

Creating default alias: default -> 8.10 (-> v8.10.0)

[root@ip-172-31-22-179 ~]# node -v

v8.10.0

[root@ip-172-31-22-179 ~]# sudo yum install -y git

Loaded plugins: extras_suggestions, langpacks, priorities, update-motd

amzn2-core | 3.7 kB 00:00 amzn2extra-docker | 3.0 kB 00:00

 (1/5): amzn2-core/2/x86_64/group_gz
 | 2.5 kB 00:00

 (2/5): amzn2-core/2/x86_64/updateinfo
 | 367 kB 00:00

 (3/5): amzn2extra-docker/2/x86_64/primary_db
 | 76 kB 00:00

 (4/5): amzn2extra-docker/2/x86_64/updateinfo
 | 76 B 00:00

 (5/5): amzn2-core/2/x86_64/primary_db
 | 52 MB 00:01

Resolving Dependencies

- --> Running transaction check
- ---> Package git.x86_64 0:2.23.4-1.amzn2.0.1 will be installed
- --> Processing Dependency: perl-Git = 2.23.4-1.amzn2.0.1 for package: git-2.23.4
- -1.amzn2.0.1.x86_64
- --> Processing Dependency: git-core-doc = 2.23.4-1.amzn2.0.1 for package: git-2.
- 23.4-1.amzn2.0.1.x86 64
- --> Processing Dependency: git-core = 2.23.4-1.amzn2.0.1 for package: git-2.23.4
- -1.amzn2.0.1.x86 64
- --> Processing Dependency: emacs-filesystem >= 25.3 for package: git-2.23.4-1.am zn2.0.1.x86 64
- --> Processing Dependency: perl(Term::ReadKey) for package: git-2.23.4-1.amzn2.0 .1.x86_64
- --> Processing Dependency: perl(Git::I18N) for package: git-2.23.4-1.amzn2.0.1.x 86 64
- --> Processing Dependency: perl(Git) for package: git-2.23.4-1.amzn2.0.1.x86_64
- --> Processing Dependency: libsecret-1.so.0()(64bit) for package: git-2.23.4-1.a mzn2.0.1.x86 64
- --> Running transaction check
- ---> Package emacs-filesystem.noarch 1:25.3-3.amzn2.0.2 will be installed
- ---> Package git-core.x86_64 0:2.23.4-1.amzn2.0.1 will be installed
- ---> Package git-core-doc.noarch 0:2.23.4-1.amzn2.0.1 will be installed
- ---> Package libsecret.x86_64 0:0.18.5-2.amzn2.0.2 will be installed
- ---> Package perl-Git.noarch 0:2.23.4-1.amzn2.0.1 will be installed
- --> Processing Dependency: perl(Error) for package: perl-Git-2.23.4-1.amzn2.0.1. noarch
- ---> Package perl-TermReadKey.x86_64 0:2.30-20.amzn2.0.2 will be installed
- --> Running transaction check
- ---> Package perl-Error.noarch 1:0.17020-2.amzn2 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

```
______
Package
             Arch
                    Version
                                  Repository
                                              Size
______
Installing:
          x86_64 2.23.4-1.amzn2.0.1
                                     amzn2-core 135 k
git
Installing for dependencies:
emacs-filesystem noarch 1:25.3-3.amzn2.0.2
                                           amzn2-core
                                                       64 k
git-core
            x86 64 2.23.4-1.amzn2.0.1
                                       amzn2-core 5.0 M
             noarch 2.23.4-1.amzn2.0.1
                                         amzn2-core 2.4 M
git-core-doc
libsecret
            x86_64 0.18.5-2.amzn2.0.2
                                       amzn2-core 153 k
perl-Error
             noarch 1:0.17020-2.amzn2
                                        amzn2-core 32 k
perl-Git
            noarch 2.23.4-1.amzn2.0.1
                                       amzn2-core 47 k
perl-TermReadKey x86_64 2.30-20.amzn2.0.2
                                            amzn2-core
                                                        31 k
Transaction Summary
______
Install 1 Package (+7 Dependent packages)
Total download size: 7.9 M
Installed size: 41 M
Downloading packages:
(1/8): emacs-filesystem-25.3-3.amzn2.0.2.noarch.rpm
                                               | 64 kB 00:00
                                          | 135 kB 00:00
(2/8): git-2.23.4-1.amzn2.0.1.x86 64.rpm
(3/8): git-core-doc-2.23.4-1.amzn2.0.1.noarch.rpm
                                            | 2.4 MB 00:00
(4/8): git-core-2.23.4-1.amzn2.0.1.x86_64.rpm
                                            | 5.0 MB 00:00
(5/8): libsecret-0.18.5-2.amzn2.0.2.x86 64.rpm
                                           | 153 kB 00:00
(6/8): perl-Error-0.17020-2.amzn2.noarch.rpm
                                            | 32 kB 00:00
(7/8): perl-Git-2.23.4-1.amzn2.0.1.noarch.rpm
                                           | 47 kB 00:00
(8/8): perl-TermReadKey-2.30-20.amzn2.0.2.x86_64.rpm
                                                | 31 kB 00:00
Total
                         32 MB/s | 7.9 MB 00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing: git-core-2.23.4-1.amzn2.0.1.x86_64
                                                  1/8
Installing: git-core-doc-2.23.4-1.amzn2.0.1.noarch
                                                    2/8
Installing: 1:emacs-filesystem-25.3-3.amzn2.0.2.noarch
                                                      3/8
Installing: 1:perl-Error-0.17020-2.amzn2.noarch
                                                   4/8
Installing: perl-TermReadKey-2.30-20.amzn2.0.2.x86 64
                                                       5/8
Installing: libsecret-0.18.5-2.amzn2.0.2.x86_64
                                                  6/8
                                                  7/8
Installing: perl-Git-2.23.4-1.amzn2.0.1.noarch
Installing: git-2.23.4-1.amzn2.0.1.x86_64
                                                8/8
```

Verifying: libsecret-0.18.5-2.amzn2.0.2.x86_64 1/8

Verifying: perl-TermReadKey-2.30-20.amzn2.0.2.x86_64 2/8

Verifying: git-2.23.4-1.amzn2.0.1.x86_64 3/8

Verifying: git-core-doc-2.23.4-1.amzn2.0.1.noarch
4/8
Verifying: perl-Git-2.23.4-1.amzn2.0.1.noarch
5/8
Verifying: git-core-2.23.4-1.amzn2.0.1.x86_64
6/8
Verifying: 1:perl-Error-0.17020-2.amzn2.noarch
7/8
Verifying: 1:emacs-filesystem-25.3-3.amzn2.0.2.noarch
8/8

Installed:

git.x86_64 0:2.23.4-1.amzn2.0.1

Dependency Installed:

emacs-filesystem.noarch 1:25.3-3.amzn2.0.2

git-core.x86_64 0:2.23.4-1.amzn2.0.1

git-core-doc.noarch 0:2.23.4-1.amzn2.0.1

libsecret.x86 64 0:0.18.5-2.amzn2.0.2

perl-Error.noarch 1:0.17020-2.amzn2

perl-Git.noarch 0:2.23.4-1.amzn2.0.1

perl-TermReadKey.x86_64 0:2.30-20.amzn2.0.2

Complete!

[root@ip-172-31-22-179 ~]# https://github.com/abkunal/Chat-App-using-Socket.io.g it

-bash: https://github.com/abkunal/Chat-App-using-Socket.io.git: No such file or directory

[root@ip-172-31-22-179 \sim]# sudo yum install -y git

Loaded plugins: extras_suggestions, langpacks, priorities, update-motd

Package git-2.23.4-1.amzn2.0.1.x86_64 already installed and latest version

Nothing to do

[root@ip-172-31-22-179 $^$]# git clone https://github.com/abkunal/Chat-App-using-S ocket.io.git

Cloning into 'Chat-App-using-Socket.io'...

remote: Enumerating objects: 43, done.

remote: Total 43 (delta 0), reused 0 (delta 0), pack-reused 43

Unpacking objects: 100% (43/43), done.

[root@ip-172-31-22-179 \sim]# cd Chat-App-using-Socket.io

[root@ip-172-31-22-179 Chat-App-using-Socket.io]# npm install

npm WARN deprecated debug@4.1.1: Debug versions >= 3.2.0 <3.2.7 $\mid \mid$ >=4 <4.3.1 hav

e a low-severity ReDos regression when used in a Node.js environment. It is recommended you upgrade to 3.2.7 or 4.3.1. (https://github.com/visionmedia/debug/issues/797)

npm notice created a lockfile as package-lock.json. You should commit this file.

npm WARN ws@7.4.5 requires a peer of bufferutil@^4.0.1 but none is installed. Yo u must install peer dependencies yourself.

npm WARN ws@7.4.5 requires a peer of utf-8-validate@^5.0.2 but none is installed . You must install peer dependencies yourself.

npm WARN chatapp@1.0.0 No repository field.

added 87 packages in 2.903s [root@ip-172-31-22-179 Chat-App-using-Socket.io]# npm install -g pm2 npm WARN notice [SECURITY] lodash has the following vulnerability: 1 high. Go he re for more details: https://www.npmjs.com/advisories?search=lodash&version=4.17 .21 - Run `npm i npm@latest -g` to upgrade your npm version, and then `npm audit `to get more info. /root/.nvm/versions/node/v8.10.0/bin/pm2 -> /root/.nvm/versions/node/v8.10.0/lib /node modules/pm2/bin/pm2 /root/.nvm/versions/node/v8.10.0/bin/pm2-dev -> /root/.nvm/versions/node/v8.10.0 /lib/node modules/pm2/bin/pm2-dev /root/.nvm/versions/node/v8.10.0/bin/pm2-docker -> /root/.nvm/versions/node/v8.1 0.0/lib/node_modules/pm2/bin/pm2-docker /root/.nvm/versions/node/v8.10.0/bin/pm2-runtime -> /root/.nvm/versions/node/v8. 10.0/lib/node_modules/pm2/bin/pm2-runtime npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@~2.3.1 (node modules/pm 2/node_modules/chokidar/node_modules/fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@ 2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"linux","arch":"x64"}) npm WARN ws@7.2.5 requires a peer of bufferutil@^4.0.1 but none is installed. Yo u must install peer dependencies yourself. npm WARN ws@7.2.5 requires a peer of utf-8-validate@^5.0.2 but none is installed . You must install peer dependencies yourself. + pm2@4.5.6 added 175 packages in 10.166s [root@ip-172-31-22-179 Chat-App-using-Socket.io]# pm2 start app.js _V\\V////_\\\\\\\\\\\ _V____V_V___\\\\\\ _V\\V/////____/____/_____/\\\/_____/ _V____V____\\\\

Runtime Edition

PM2 is a Production Process Manager for Node.js applications with a built-in Load Balancer.

Start and Daemonize any application: \$ pm2 start app.js Load Balance 4 instances of api.js: \$ pm2 start api.js -i 4 Monitor in production: \$ pm2 monitor Make pm2 auto-boot at server restart: \$ pm2 startup To go further checkout: http://pm2.io/ [PM2] Spawning PM2 daemon with pm2_home=/root/.pm2 [PM2] PM2 Successfully daemonized [PM2] Starting /root/Chat-App-using-Socket.io/app.js in fork_mode (1 instance) [PM2] Done. | id | name | mode | ひ | status | cpu | memory | | 0 | app | fork | 0 | online | 0% | 26.4mb | [root@ip-172-31-22-179 Chat-App-using-Socket.io]# pm2 save [PM2] Saving current process list... [PM2] Successfully saved in /root/.pm2/dump.pm2 [root@ip-172-31-22-179 Chat-App-using-Socket.io]# pm2 startup [PM2] Init System found: systemd Platform systemd **Template** [Unit] Description=PM2 process manager Documentation=https://pm2.keymetrics.io/ After=network.target

[Service]

Type=forking

User=root

LimitNOFILE=infinity

LimitNPROC=infinity

LimitCORE=infinity

Environment=PATH=/root/.nvm/versions/node/v8.10.0/bin:/usr/local/sbin:/sbin:/bin:/usr/sbin:/usr/bin:/usr/bin:/usr/local/sbin:/usr/local/bin:/usr/s

Environment=PM2_HOME=/root/.pm2

PIDFile=/root/.pm2/pm2.pid

Restart=on-failure

ExecStart=/root/.nvm/versions/node/v8.10.0/lib/node_modules/pm2/bin/pm2 resurrec t

ExecReload=/root/.nvm/versions/node/v8.10.0/lib/node_modules/pm2/bin/pm2 reload all

ExecStop=/root/.nvm/versions/node/v8.10.0/lib/node modules/pm2/bin/pm2 kill

[Install]

WantedBy=multi-user.target

Target path

/etc/systemd/system/pm2-root.service

Command list

['systemctl enable pm2-root']

[PM2] Writing init configuration in /etc/systemd/system/pm2-root.service

[PM2] Making script booting at startup...

[PM2] [-] Executing: systemctl enable pm2-root...

Created symlink from /etc/systemd/system/multi-user.target.wants/pm2-root.servic e to /etc/systemd/system/pm2-root.service.

[PM2] [v] Command successfully executed.

+----+

[PM2] Freeze a process list on reboot via:

\$ pm2 save

[PM2] Remove init script via:

\$ pm2 unstartup systemd

[root@ip-172-31-22-179 Chat-App-using-Socket.io]# ^C

[root@ip-172-31-22-179 Chat-App-using-Socket.io]# history

1 curl -o- https://raw.githubusercontent.com/creationix/nvm/v0.33.11/instal

I.sh | bash

- 2 . ~/.nvm/nvm.sh
- 3 nvm install 8.10
- 4 node -v
- 5 sudo yum install -y git
- 6 https://github.com/abkunal/Chat-App-using-Socket.io.git
- 7 sudo yum install -y git
- 8 git clone https://github.com/abkunal/Chat-App-using-Socket.io.git
- 9 cd Chat-App-using-Socket.io
- 10 npm install
- 11 npm install -g pm2
- 12 pm2 start app.js

13 pm2 save

14 pm2 startup

15 history

[root@ip-172-31-22-179 Chat-App-using-Socket.io]#