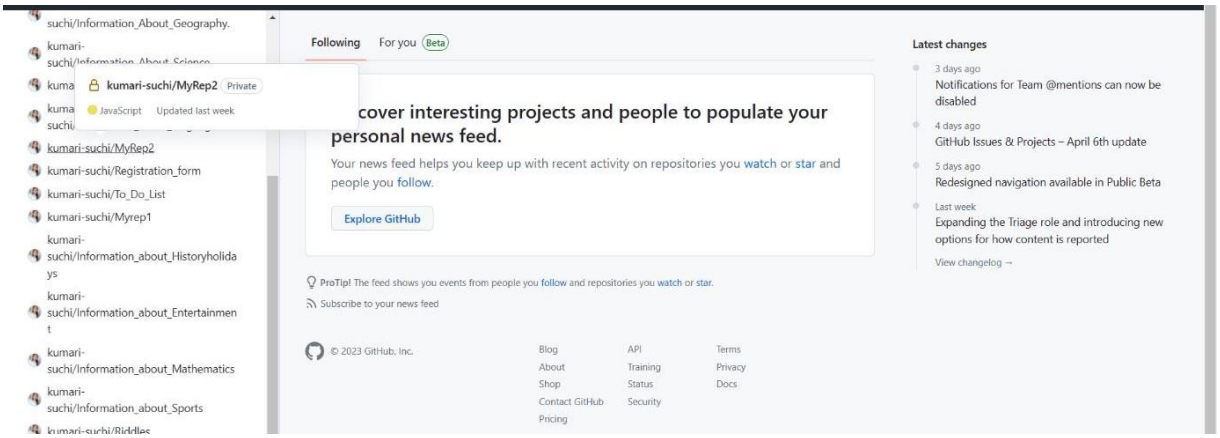
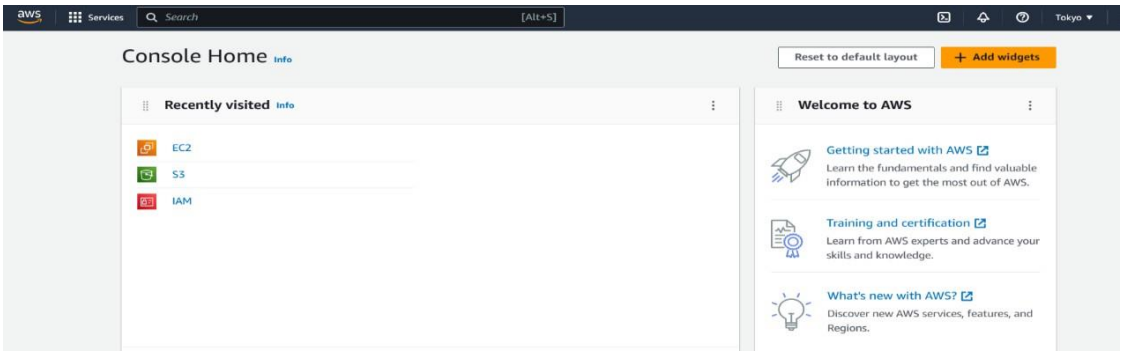
AWS-9

## Deploy a project from GitHub to EC2.

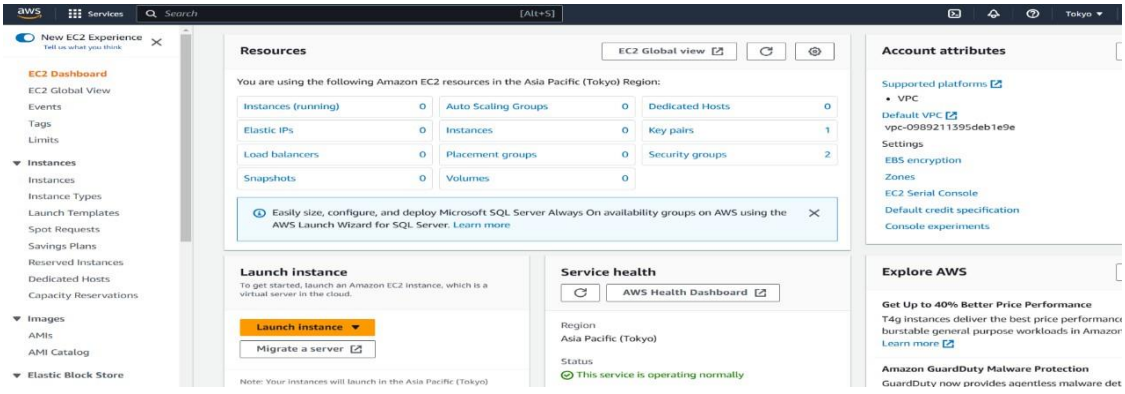
1. Sign in to your GitHub account.



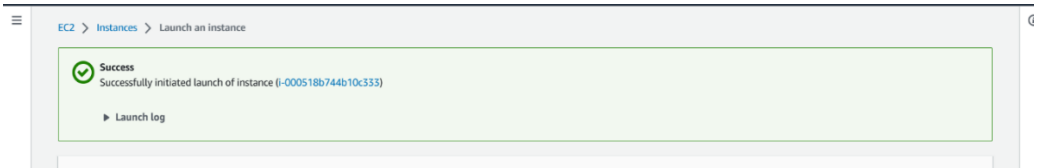

2. Then sign in to aws account then click EC2.



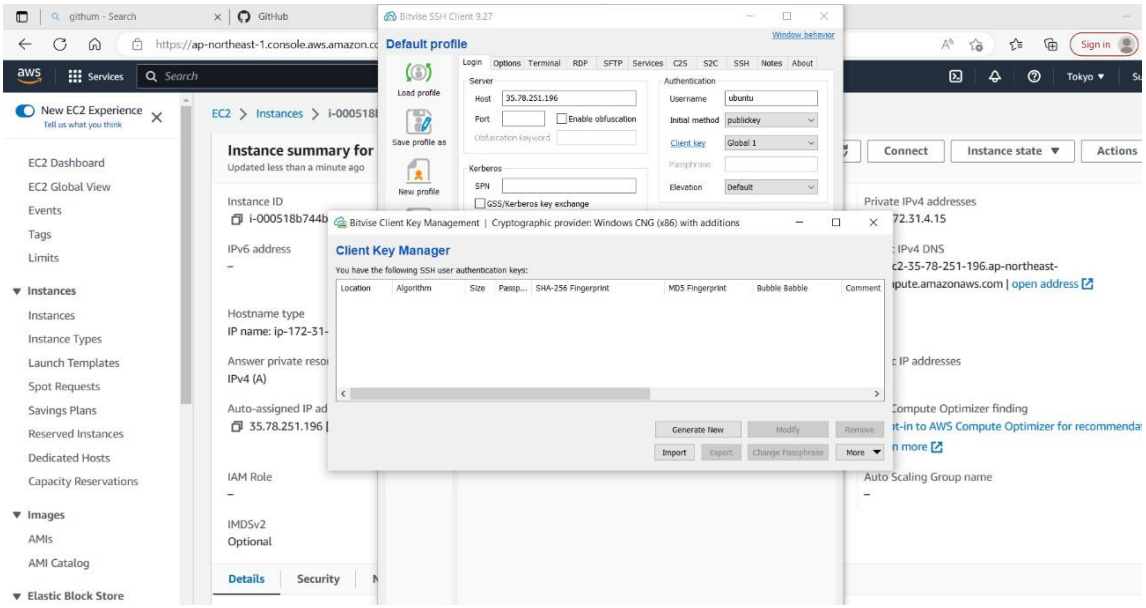

3. Then click on Launch instances and create instances.



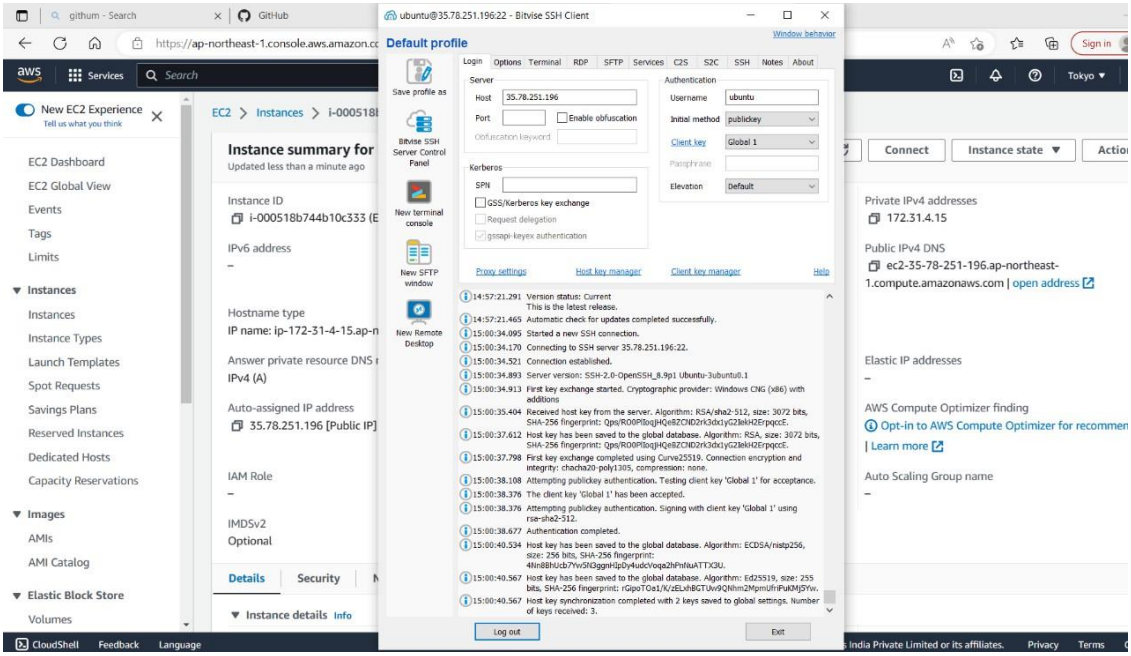

4. Successfully instance created.



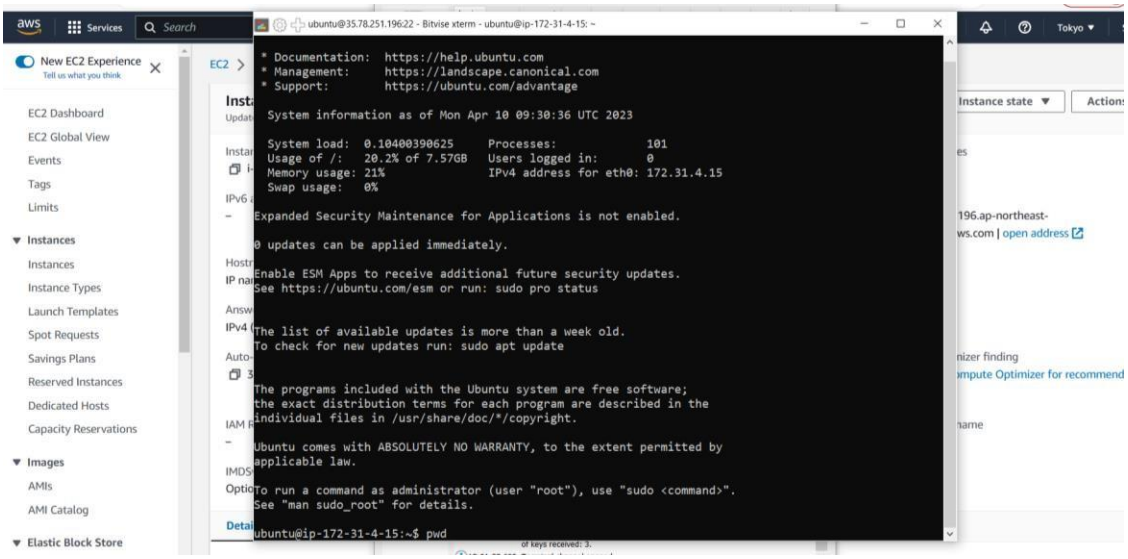
5. Then copy Public IPv4 address and after that open Bitvise SSH client and then paste the address on host then click on client key manager and then click on import and import .pem file which is automatically downloaded.

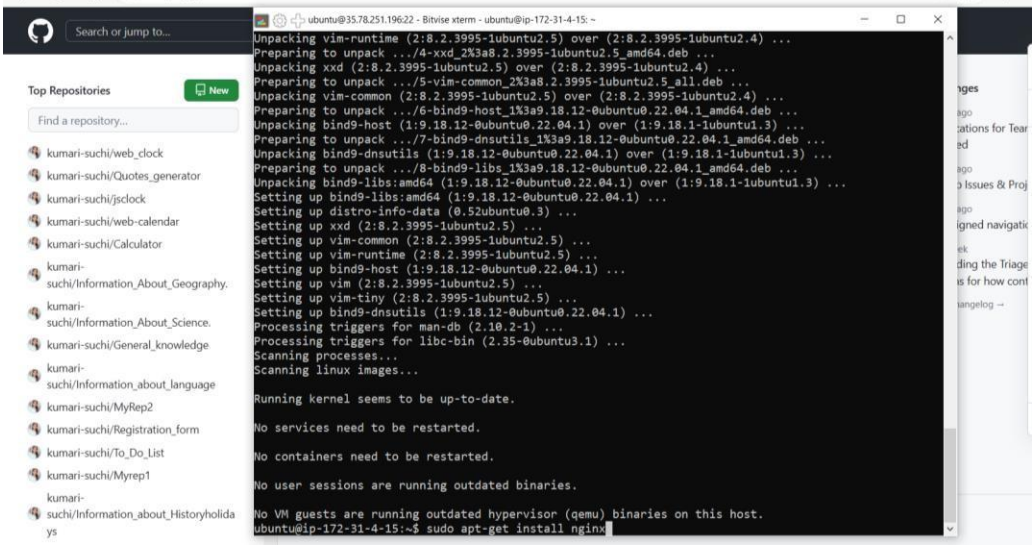


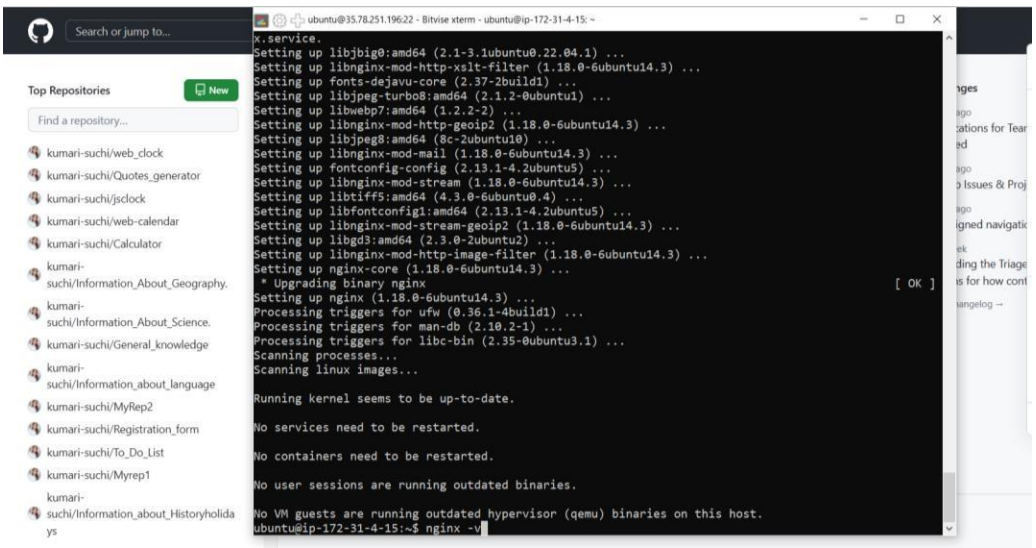

6. Then open New terminal console.

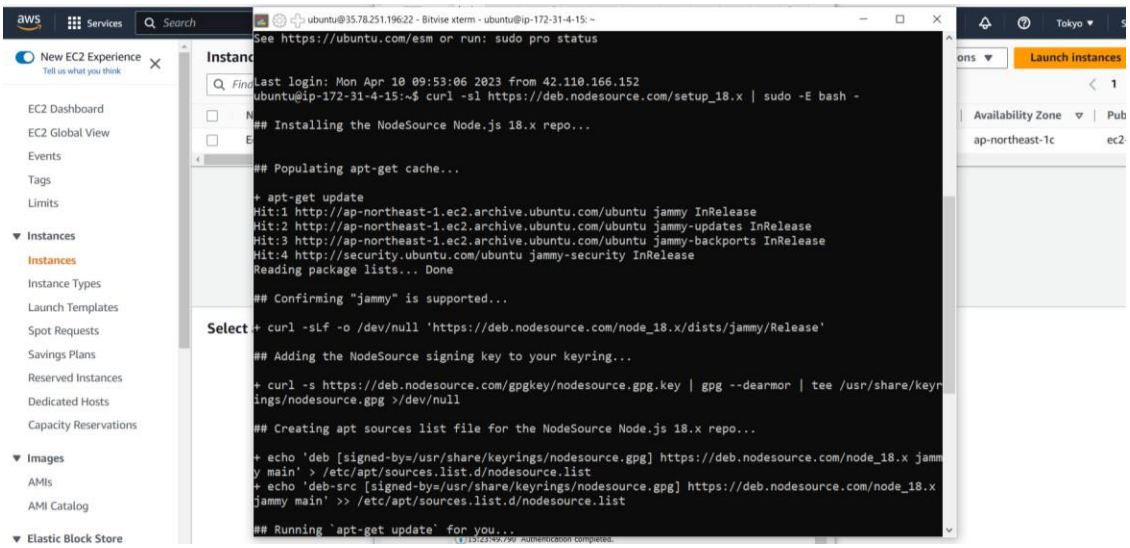



7. Then write some command on console i.e pwd, sudo apt-get update , sudo apt-get upgrade , sudo apt-get install nginx, nginx -v, curl -sl https://deb.nodesource.com/setup_18.x | sudo -E bash -, sudo apt install nodejs and node -v.

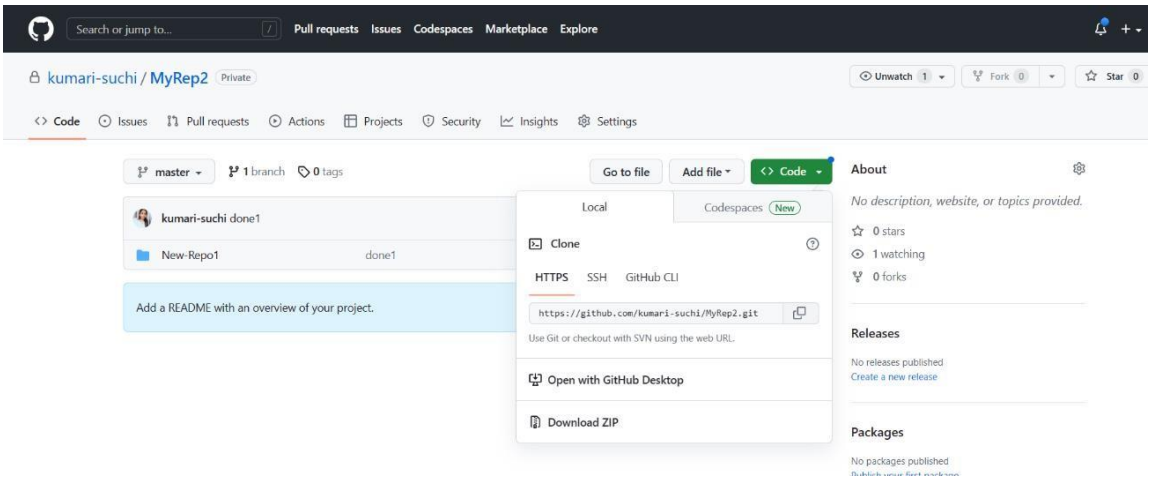

ubuntu@35.78.251.196:22 - Bitvise xterm - ubuntu@ip-172-31-4-15: ~
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
System information as of Mon Apr 10 09:30:36 UTC 2023
System load: 0.10400390625 Processes: 101
Usage of /: 20.2% of 7.57GB Users logged in: 0
Memory usage: 21% IPv4 address for eth0: 172.31.4.15
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-4-15:~$ pwd


ubuntu@35.78.251.196:22 - Bitvise xterm - ubuntu@ip-172-31-4-15: ~
Unpacking vim-runtime (2:8.2.3995-1ubuntu2.5) over (2:8.2.3995-1ubuntu2.4) ...
Preparing to unpack .../4-xxd_2%3a8.2.3995-1ubuntu2.5_amd64.deb ...
Unpacking xxd (2:8.2.3995-1ubuntu2.5) over (2:8.2.3995-1ubuntu2.4) ...
Preparing to unpack .../5-vim-common_2%3a8.2.3995-1ubuntu2.5_all.deb ...
Unpacking vim-common (2:8.2.3995-1ubuntu2.5) over (2:8.2.3995-1ubuntu2.4) ...
Preparing to unpack .../6-bind9-host_1%3a9.18.12-0ubuntu0.22.04.1_amd64.deb ...
Unpacking bind9-host (1:9.18.12-0ubuntu0.22.04.1) over (1:9.18.1-1ubuntu1.3) ...
Preparing to unpack .../7-bind9-dnsutils_1%3a9.18.12-0ubuntu0.22.04.1_amd64.deb ...
Unpacking bind9-dnsutils (1:9.18.12-0ubuntu0.22.04.1) over (1:9.18.1-1ubuntu1.3) ...
Preparing to unpack .../8-bind9-libs_1%3a9.18.12-0ubuntu0.22.04.1_amd64.deb ...
Unpacking bind9-libs:amd64 (1:9.18.12-0ubuntu0.22.04.1) over (1:9.18.1-1ubuntu1.3) ...
Setting up bind9-libs:amd64 (1:9.18.12-0ubuntu0.22.04.1) ...
Setting up distro-info-data (0.52ubuntu0.3) ...
Setting up xxd (2:8.2.3995-1ubuntu2.5) ...
Setting up vim-common (2:8.2.3995-1ubuntu2.5) ...
Setting up vim-runtime (2:8.2.3995-1ubuntu2.5) ...
Setting up bind9-host (1:9.18.12-0ubuntu0.22.04.1) ...
Setting up vim (2:8.2.3995-1ubuntu2.5) ...
Setting up vim-tiny (2:8.2.3995-1ubuntu2.5) ...
Setting up bind9-dnsutils (1:9.18.12-0ubuntu0.22.04.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-4-15:~$ sudo apt-get install nginx
Top Repositories
New
Find a repository...
kumari-suchi/web_clock
kumari-suchi/Quotes_generator
kumari-suchi/jsclock
kumari-suchi/web-calendar
kumari-suchi/Calculator
kumari-suchi/Information_About_Geography.
kumari-suchi/Information_About_Science.
kumari-suchi/General_knowledge
kumari-suchi/Information_about_language
kumari-suchi/MyRep2
kumari-suchi/Registration_form
kumari-suchi/To_Do_List
kumari-suchi/Myrep1
kumari-suchi/Information_about_Historyholidays

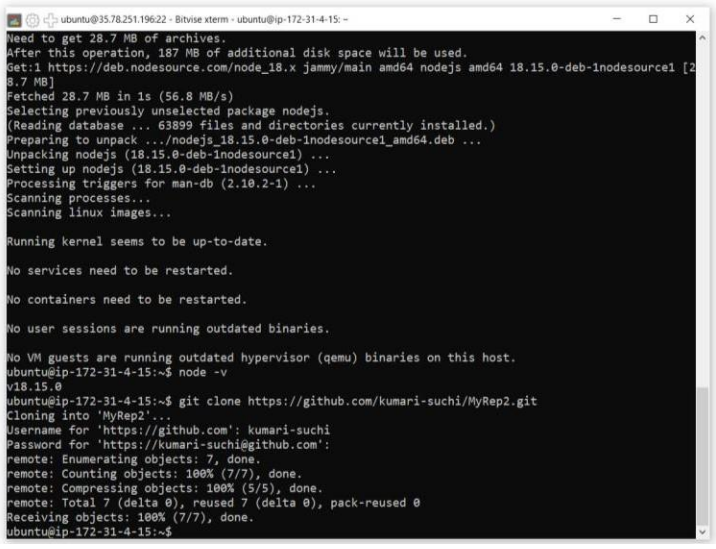

ubuntu@35.78.251.196:22 - Bitvise xterm - ubuntu@ip-172-31-4-15: ~
x.service.
Setting up libjbig0:amd64 (2.1-3.1ubuntu0.22.04.1) ...
Setting up libnginx-mod-http-xslt-filter (1.18.0-6ubuntu14.3) ...
Setting up fonts-dejavu-core (2.37-2build1) ...
Setting up libjpeg-turbo8:amd64 (2.1.2-0ubuntu1) ...
Setting up libwebp7:amd64 (1.2.2-2) ...
Setting up libnginx-mod-http-geoip2 (1.18.0-6ubuntu14.3) ...
Setting up libjpeg8:amd64 (8c-2ubuntu10) ...
Setting up libnginx-mod-mail (1.18.0-6ubuntu14.3) ...
Setting up fontconfig-config (2.13.1-4.2ubuntu5) ...
Setting up libnginx-mod-stream (1.18.0-6ubuntu14.3) ...
Setting up libtiff5:amd64 (4.3.0-6ubuntu0.4) ...
Setting up libfontconfig1:amd64 (2.13.1-4.2ubuntu5) ...
Setting up libnginx-mod-stream-geoip2 (1.18.0-6ubuntu14.3) ...
Setting up libgd3:amd64 (2.3.0-2ubuntu2) ...
Setting up libnginx-mod-http-image-filter (1.18.0-6ubuntu14.3) ...
Setting up nginx-core (1.18.0-6ubuntu14.3) ...
* Upgrading binary nginx [ OK ]
Setting up nginx (1.18.0-6ubuntu14.3) ...
Processing triggers for ufw (0.36.1-4build1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-4-15:~$ nginx -v
Top Repositories
New
Find a repository...
kumari-suchi/web_clock
kumari-suchi/Quotes_generator
kumari-suchi/jsclock
kumari-suchi/web-calendar
kumari-suchi/Calculator
kumari-suchi/Information_About_Geography.
kumari-suchi/Information_About_Science.
kumari-suchi/General_knowledge
kumari-suchi/Information_about_language
kumari-suchi/MyRep2
kumari-suchi/Registration_form
kumari-suchi/To_Do_List
kumari-suchi/Myrep1
kumari-suchi/Information_about_Historyholidays

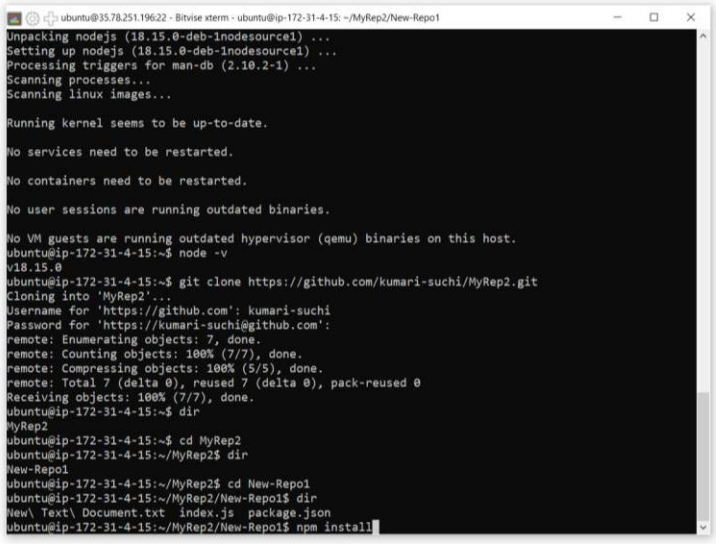


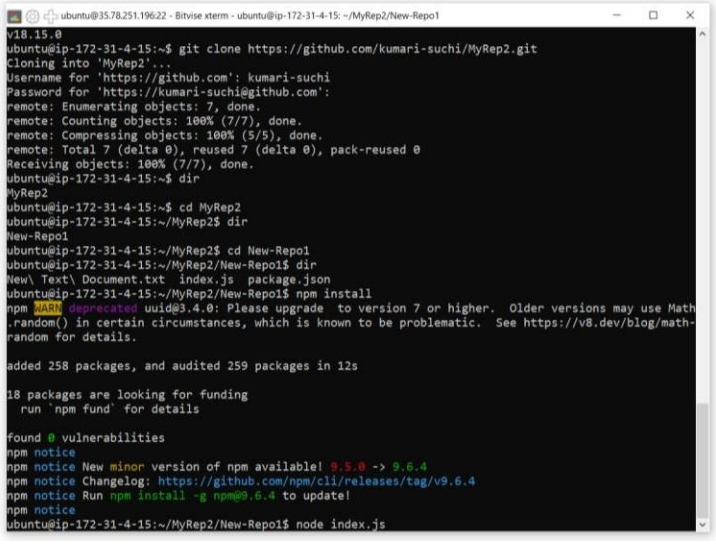

8. Then go to your GitHub Repository which you want to upload in EC2 server.Then click on Code and copy the HTTPS link.




9. Then go to terminal and write git clone and paste HTTPS link which you copied. Then write ls then cd MyRep2 and then npm install.

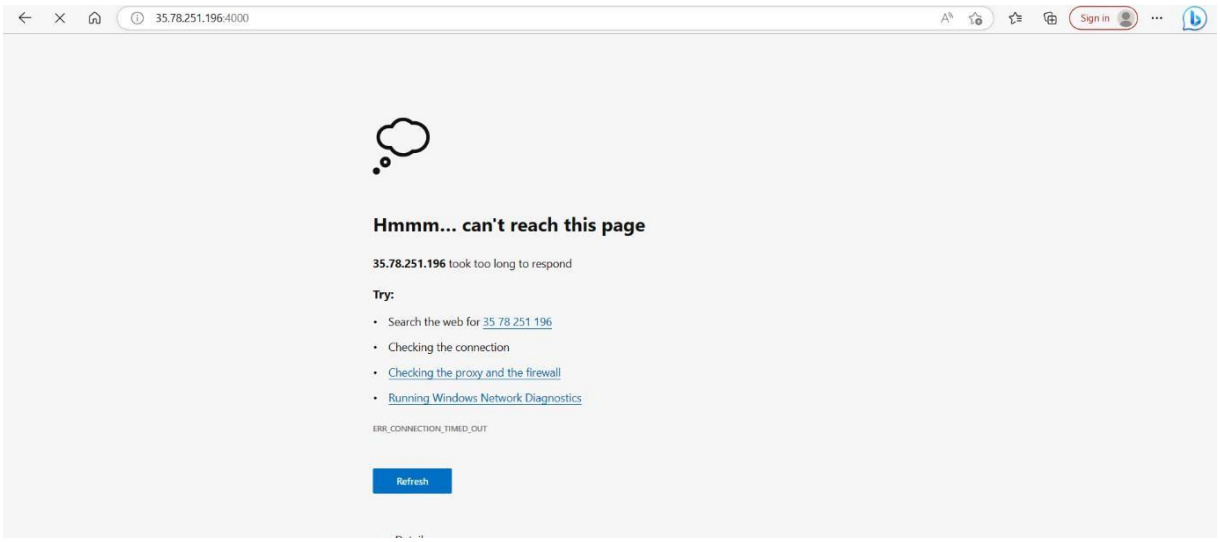




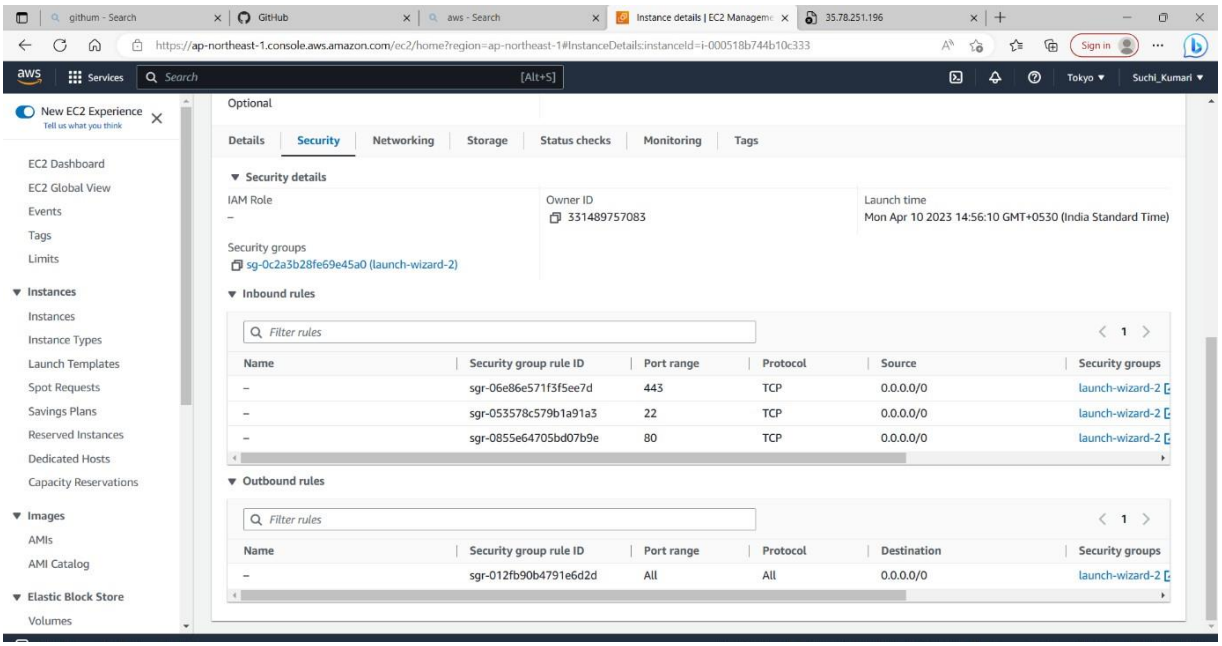




10. Then paste the IPv4 address on browser.

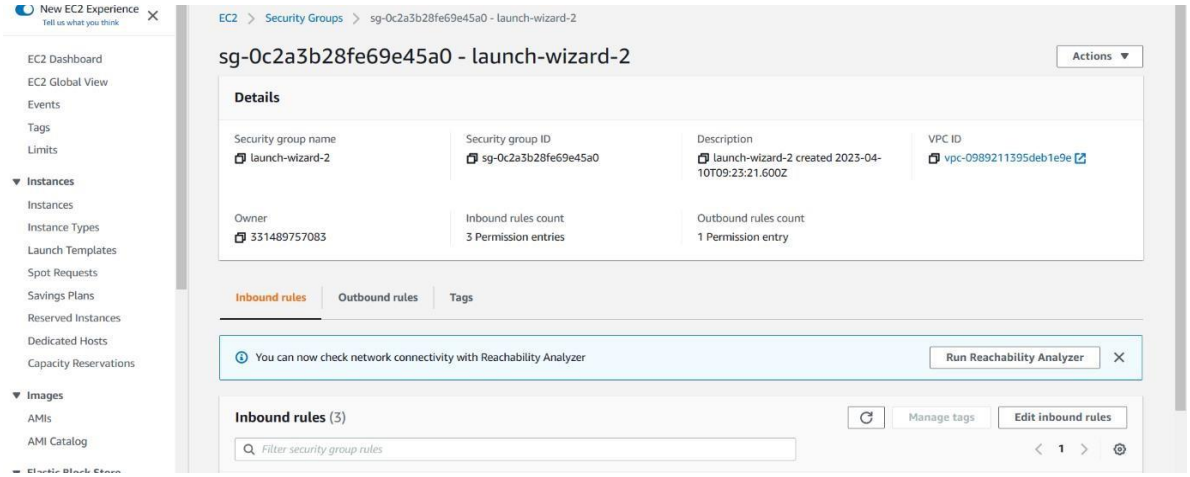

11. Then go to your repository and open index.js file and check the port no. which is written inside app.listen() method .Here port no. is 4000 then copy 4000 and paste it with the IPv4 address on new browser.



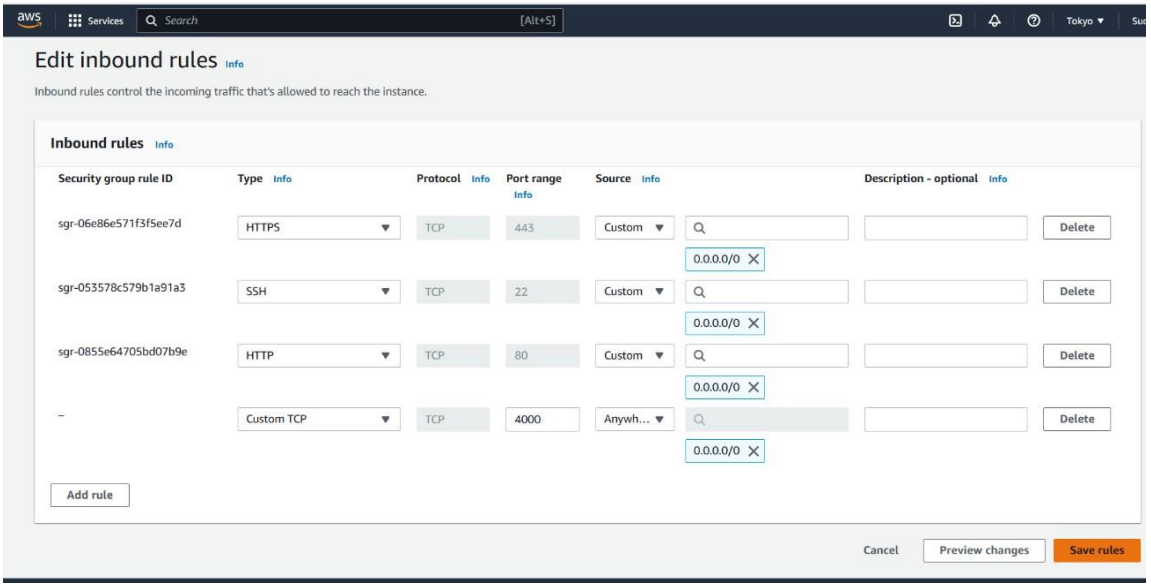

12. Then click on Security .Then go to Security groups




13. Then go to Inbound rules and click on Edit Inbound rules.



14. Then write 4000 port no. and source 0.0.0.0/0 then click on Save rules.




15. Then refresh the page where we paste the port no. along with IPv4 address now we can access our website.Now we have successfully deployed our project from GitHub to our EC2 server.


Hello

16. Now if you want to modify your code then open index.js and modify then commit changes then write some command on terminal as git pull and node index.js then refresh page then you can see what you were wrote on index.js file.