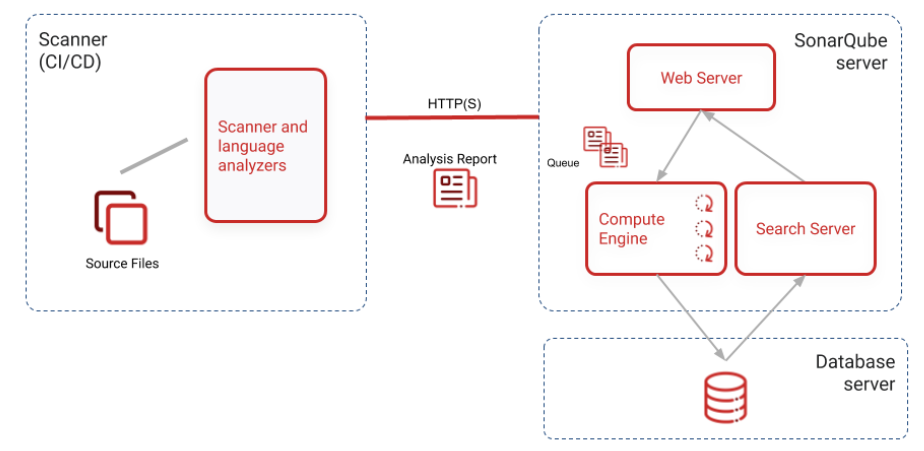
A SonarQube instance comprises three components:



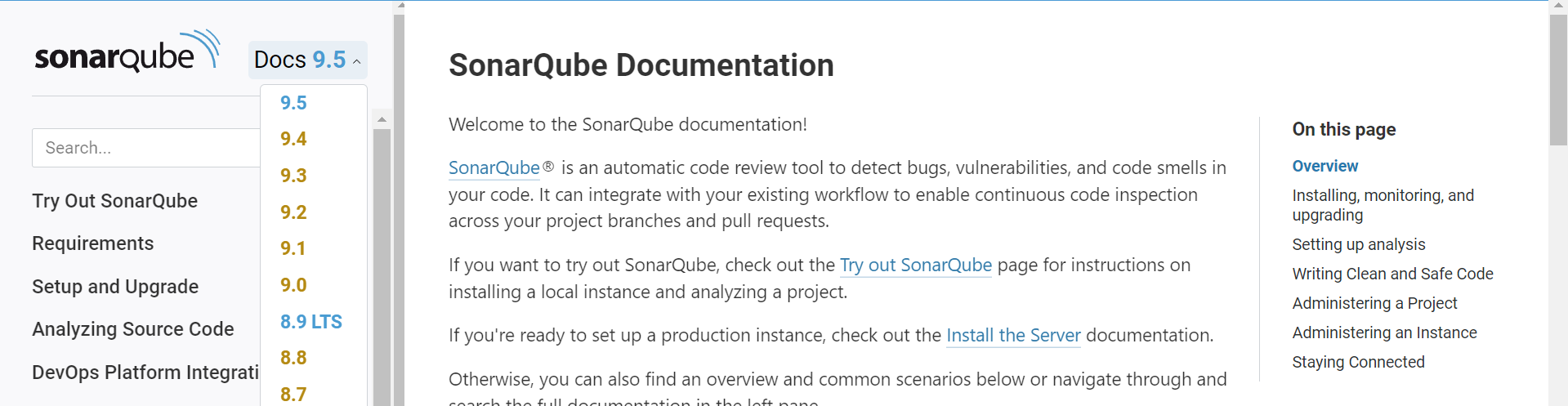
1. The SonarQube server running the following processes:
   * a web server that serves the SonarQube user interface.
   * a search server based on Elasticsearch.
   * the compute engine in charge of processing code analysis reports and saving them in the SonarQube database.
2. The **database** to store the following:
   * Metrics and issues for code quality and security generated during code scans.
   * The SonarQube instance configuration.
3. One or more scanners running on your build or continuous integration servers to analyze projects.

SonarQube will store the code quality reports in database.

Pre-requisites

Documentation link: <https://docs.sonarqube.org/latest/>

Select the SonarQube version to be installed.



Once selected the version check the pre-requisites required and their version for the selected SonarQube version.

Text

Description automatically generated with low confidence

Installing SonarQube on Ubuntu

I am going to install SonarQube 9.5 version,

First, check the pre-requisites version like java, databases.

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

So, I want to continue with installing of JAVA-11 and Postgres-11 versions.

**Installing Java-11:**

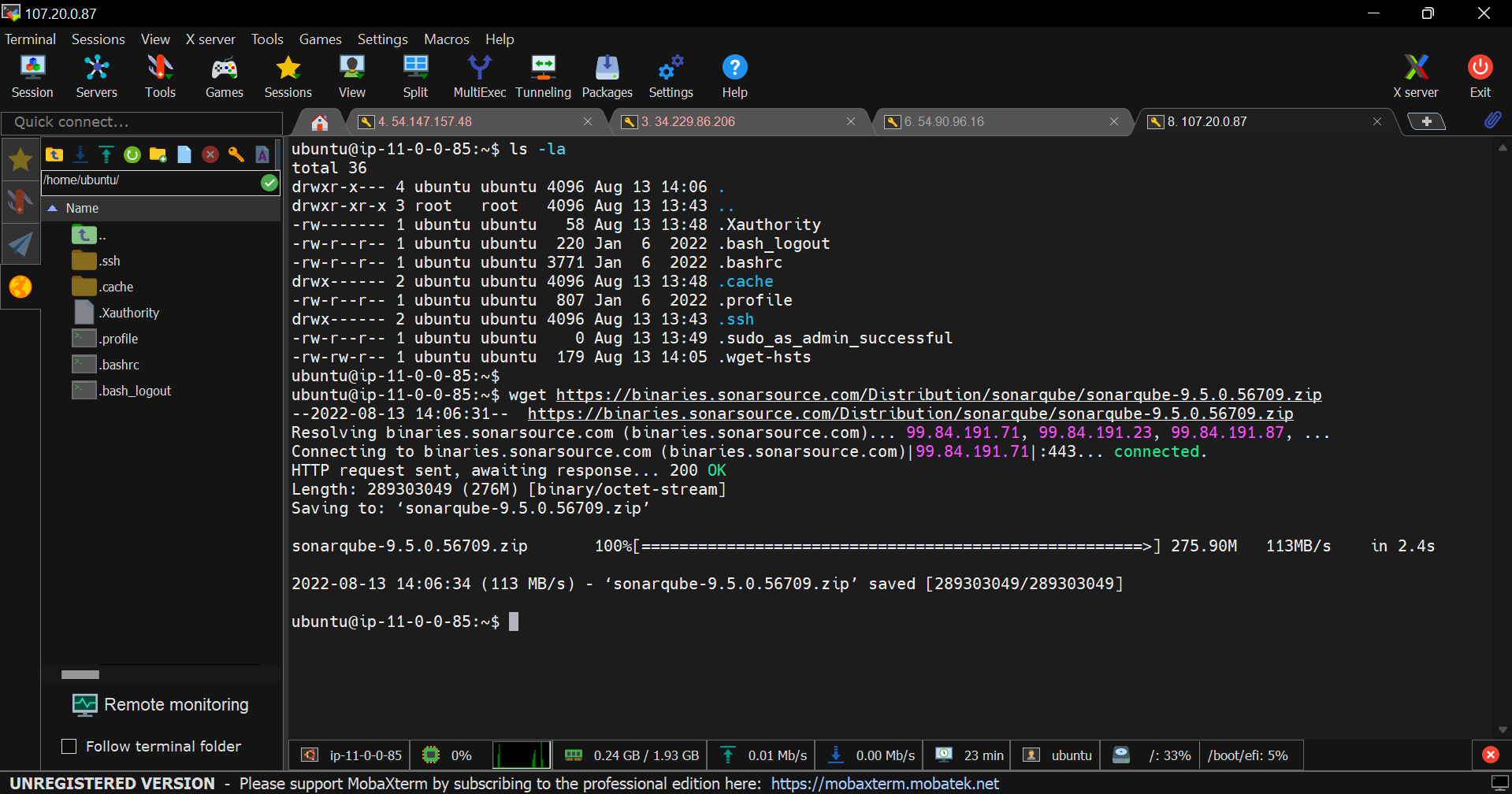
* sudo apt install openjdk-11-jdk

**Installing Linux util Packages:**

* sudo apt install wget
* sudo apt install unzip

**Installing SonarQube 9.5:**

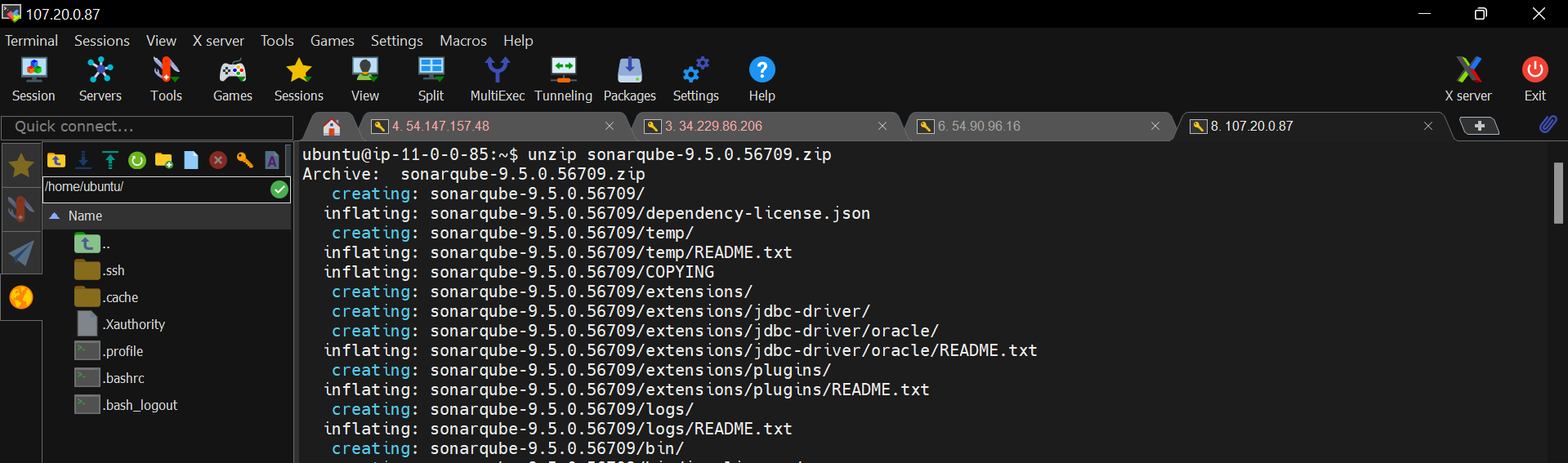
* wget <https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-9.5.0.56709.zip>

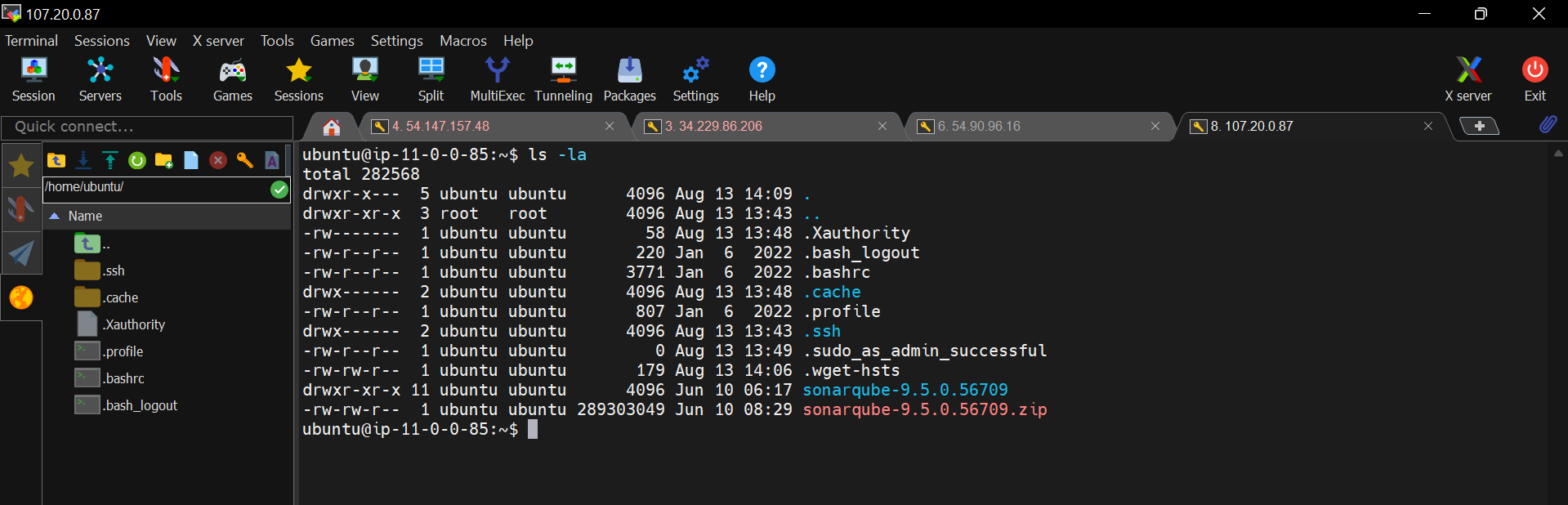


Graphical user interface, text

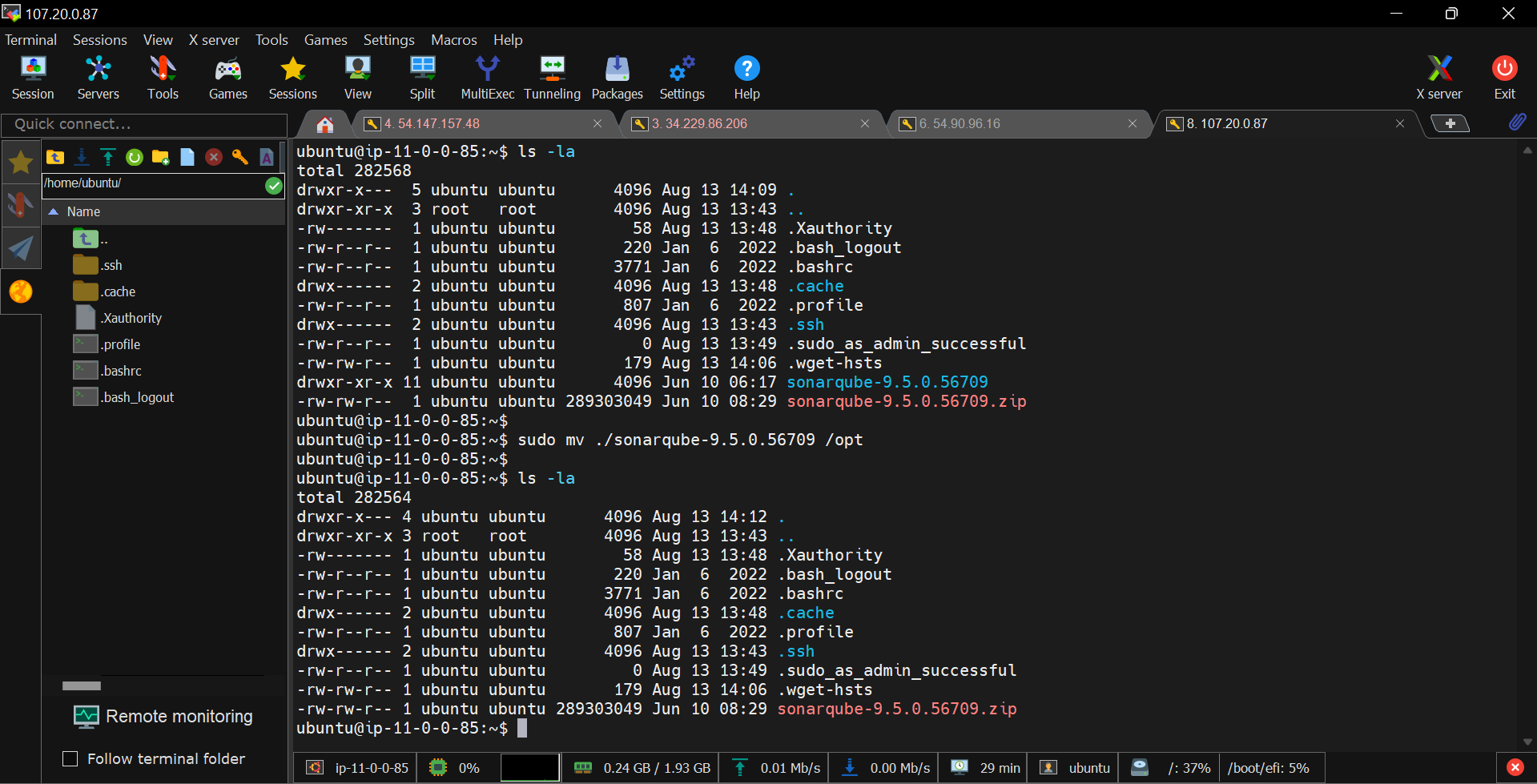
Description automatically generated

Unzip the zip file.

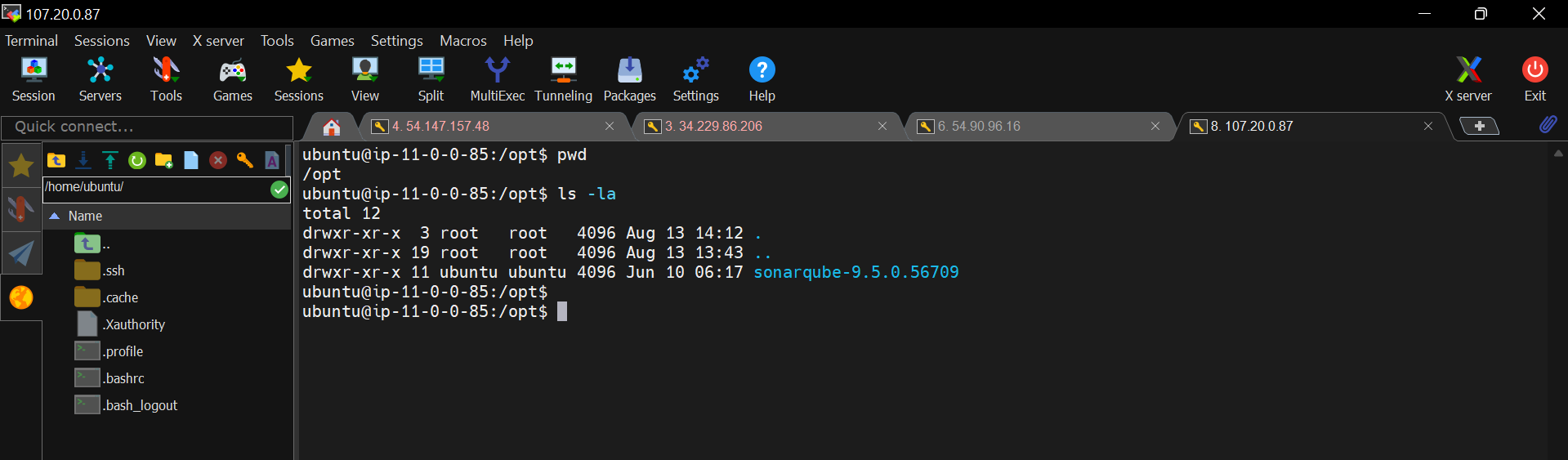




Now, move this extracted file to /opt directory.



Now, change the directory to /opt



Check the directories and files inside the SonarQube installation directory.

Graphical user interface, text, application

Description automatically generated

Bin 🡺 binaries to run the SonarQube server

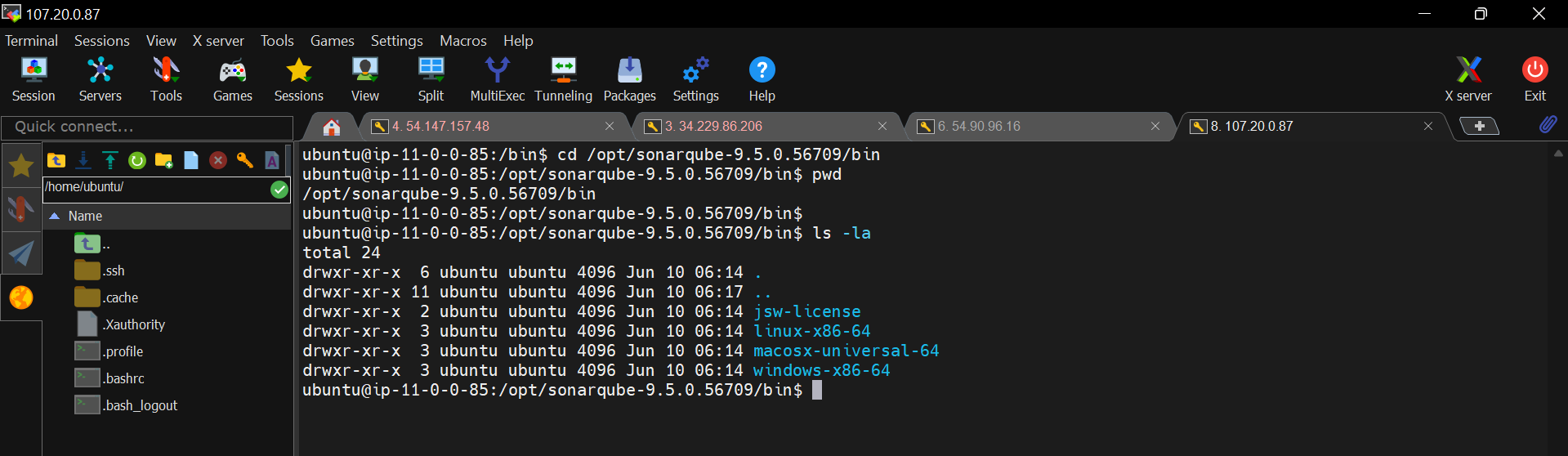
Conf 🡺 SonarQube configuration files

Logs 🡺 SonarQube server logs directory.

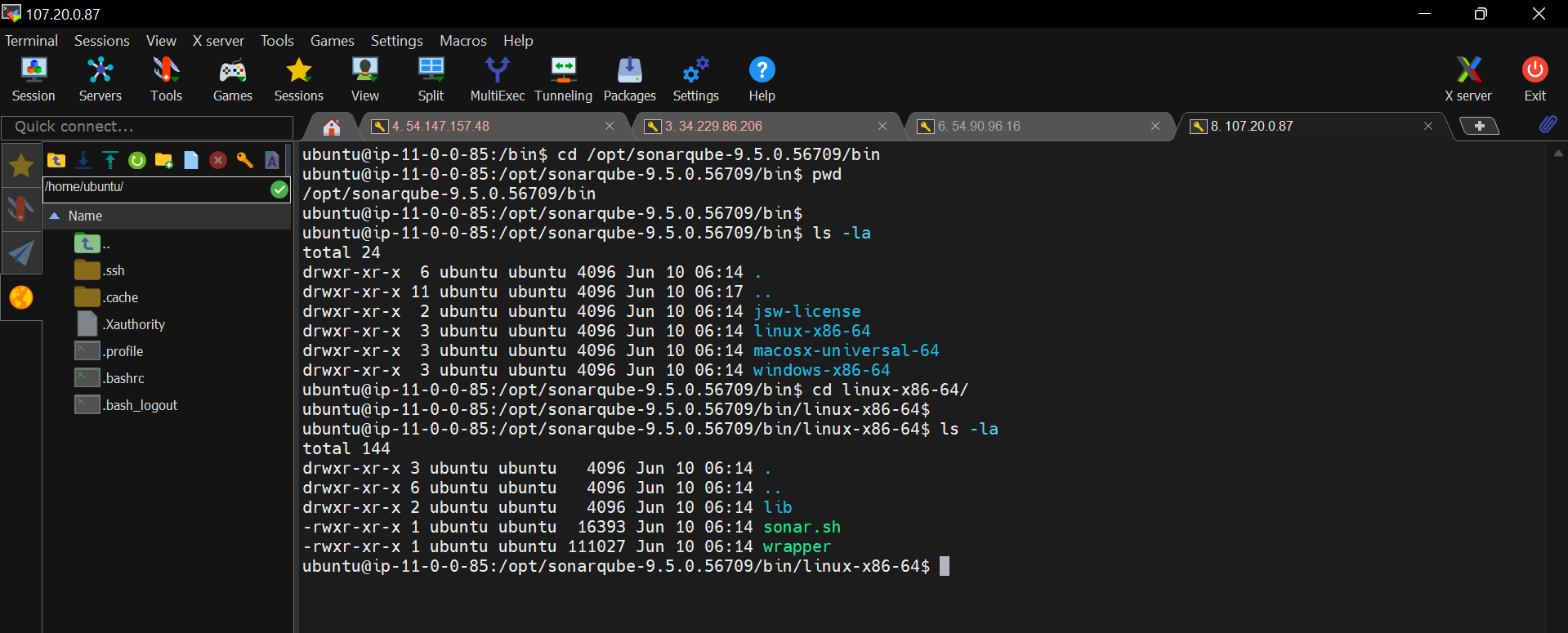
Lib 🡺 Libraries to run the SonarQube by binaries in bin directory.

Now, start the SonarQube server.

* cd bin



Go to linux-x86-64 directory for linux binaries.



Run the sonar.sh file to start the server

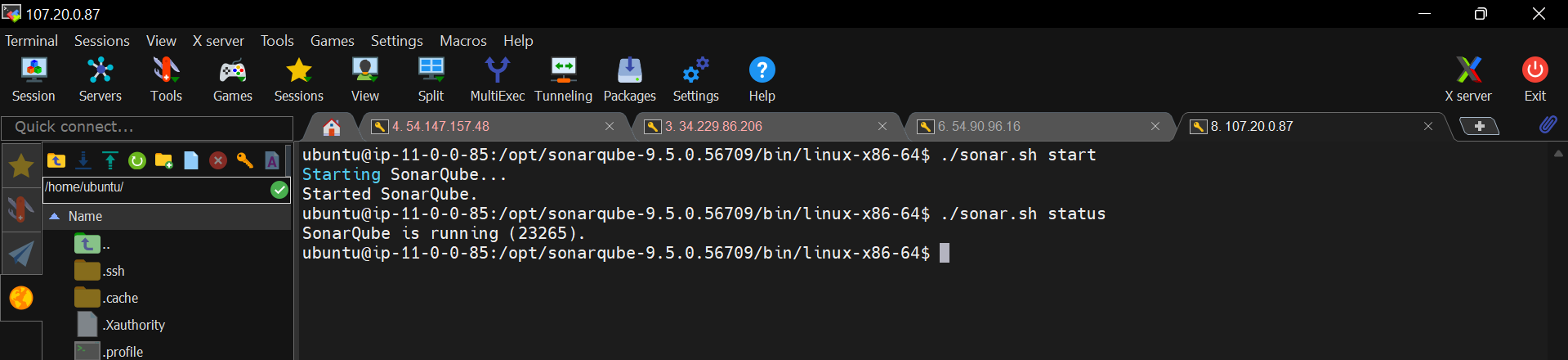
* ./sonar.sh start # To start the server.

A screenshot of a computer

Description automatically generated with medium confidence

Check the status now.

* ./sonar.sh status



./sonar.sh start # to start the server

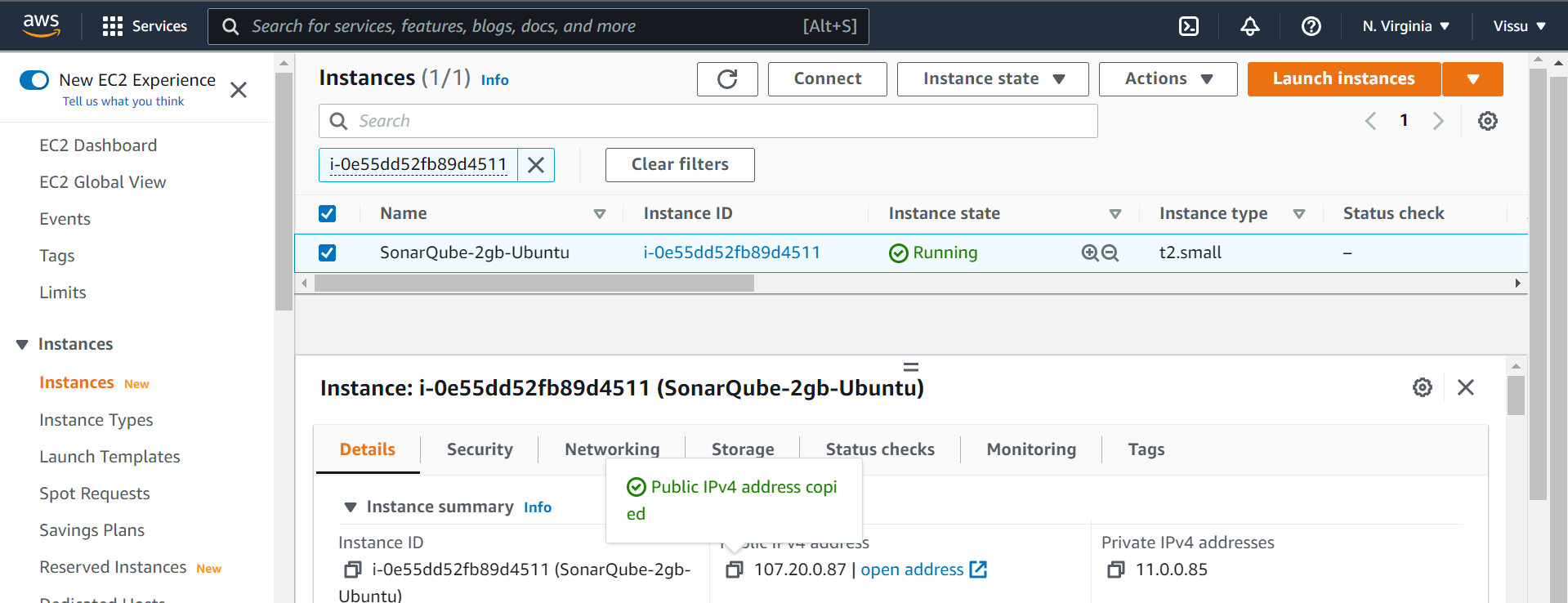
./sonar.sh stop # to stop the server

./sonar.sh restart # to restart the server

./sonar.sh status # to check the status

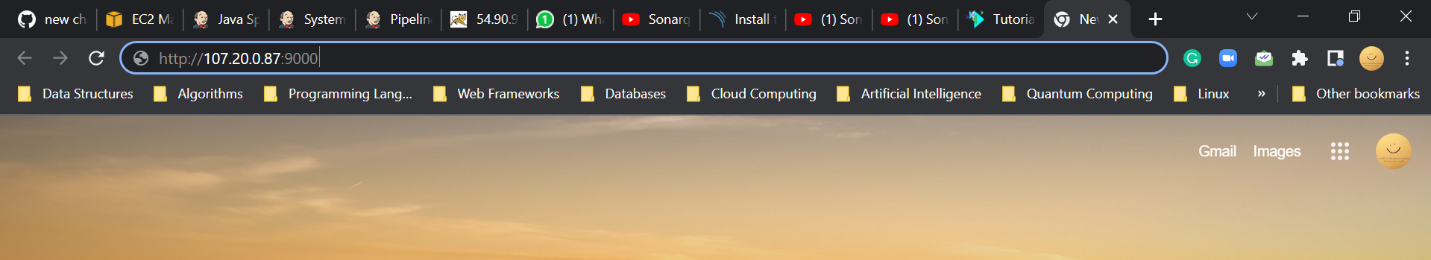
Now, open the server in browser

Copy the instance public id

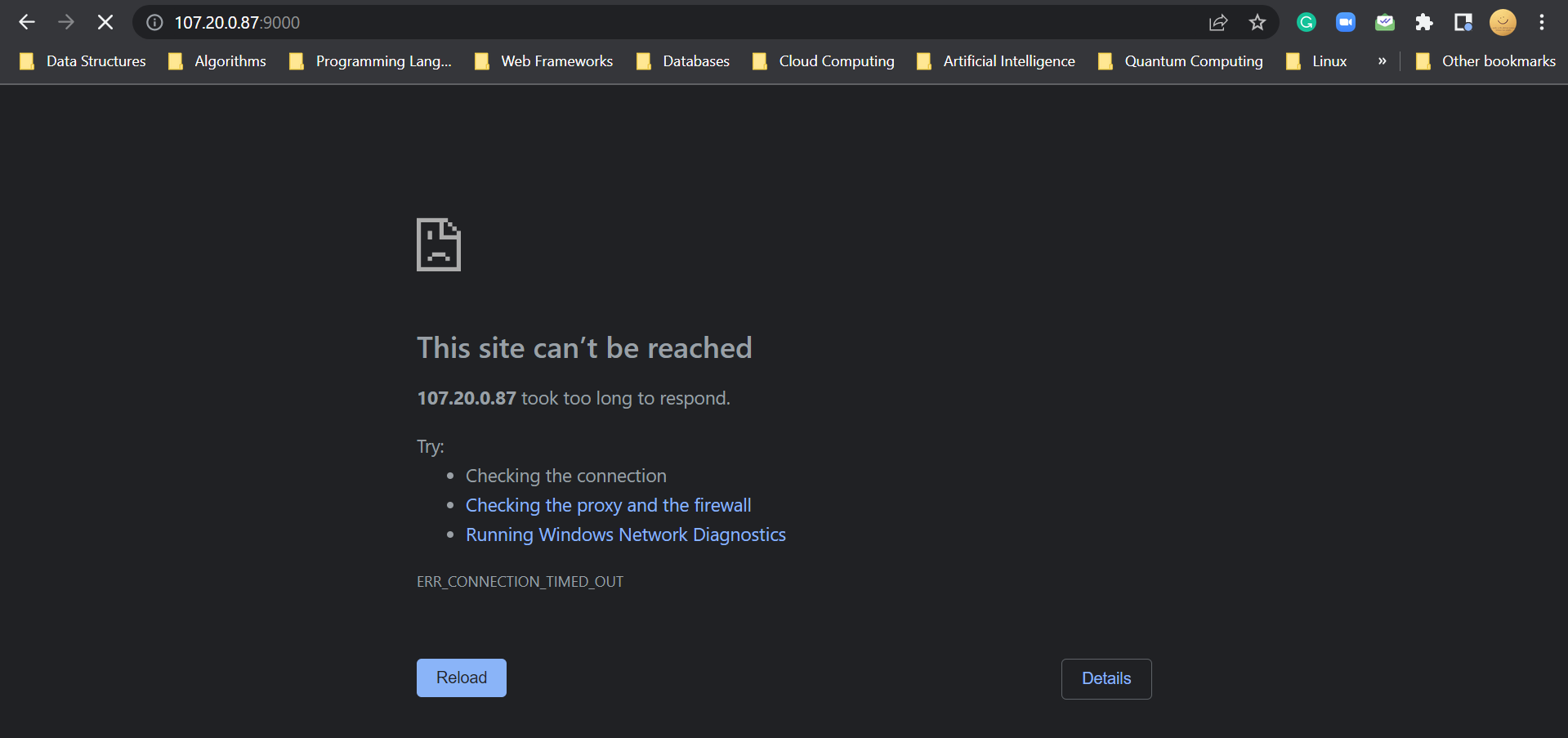


Open browser and pasted like this

<http://public-ip:9000> # 9000 is the default port number for SonarQube server.



Click on enter



If you are getting this error, then check your instance security group inbound rules.

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Click on Edit Inbound Rules

Check if the port number 9000 is allowed or not. If not allow it.

Graphical user interface

Description automatically generated

Now, go to browser and refresh it once.

Graphical user interface, text

Description automatically generated

Now, the SonarQube server is loaded.

Login to the server with default credentials

Default username = admin

Default password = admin

Graphical user interface

Description automatically generated

It will ask to reset the default password because of security. Please reset the admin credentials for safe security.

Graphical user interface

Description automatically generated

Click on “update”.

Graphical user interface, text, website

Description automatically generated

Finally, we are able to login to the SonarQube server successfully.