

Mattermost software installation

Install MySQL database server

1. Create a directory “software” in your home directory and download the MySQL Yum repository from dev.mysql.com

```
-sh-4.2$ pwd
/home/rahul
-sh-4.2$ mkdir software
-sh-4.2$ pwd
/home/rahul
-sh-4.2$ cd /software
-sh: cd: /software: No such file or directory
-sh-4.2$ cd / software
-sh-4.2$ pwd
/
-sh-4.2$ sudo wget http://dev.mysql.com/get/mysql57-community-release-el7-9.noarch.rpm
--2023-05-31 06:08:50-- http://dev.mysql.com/get/mysql57-community-release-el7-9.noarch.rpm
Resolving dev.mysql.com (dev.mysql.com)... 104.65.80.79, 2600:140f:6:39b::2e31, 2600:140f:6:39c::2e31
Connecting to dev.mysql.com (dev.mysql.com)|104.65.80.79|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://dev.mysql.com/get/mysql57-community-release-el7-9.noarch.rpm [following]
--2023-05-31 06:08:50-- https://dev.mysql.com/get/mysql57-community-release-el7-9.noarch.rpm
Connecting to dev.mysql.com (dev.mysql.com)|104.65.80.79|:443... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: https://repo.mysql.com/mysql57-community-release-el7-9.noarch.rpm [following]
--2023-05-31 06:08:51-- https://repo.mysql.com/mysql57-community-release-el7-9.noarch.rpm
Resolving repo.mysql.com (repo.mysql.com)... 49.44.205.42
Connecting to repo.mysql.com (repo.mysql.com)|49.44.205.42|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 9224 (9.0K) [application/x-redhat-package-manager]
Saving to: 'mysql57-community-release-el7-9.noarch.rpm'

100%[=====] 9,224      --.-K/s   in 0s

2023-05-31 06:08:51 (122 MB/s) - 'mysql57-community-release-el7-9.noarch.rpm' saved [9224/9224]

34°C
Sunny
Search
ENG IN
11:41
31-05-2023
```

2. Install the Yum repository from the file that you downloaded.

```
Command Prompt - ssh rahu + v
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

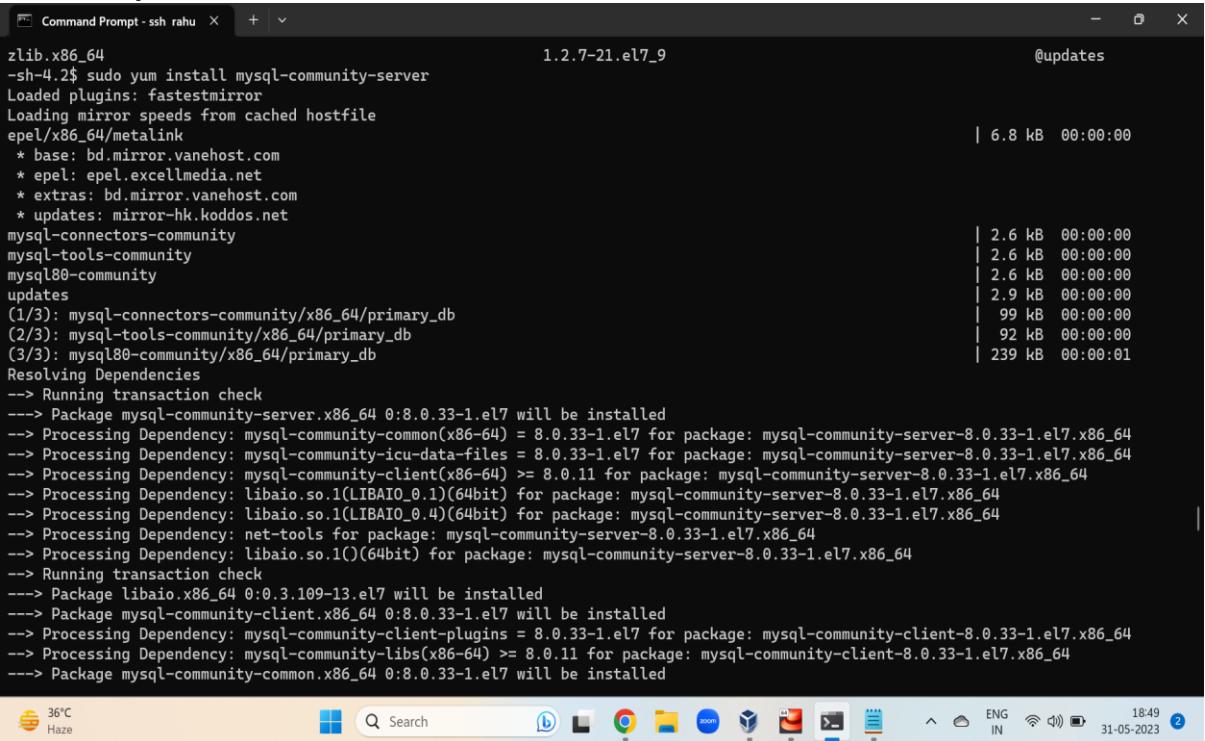
C:\Users\rahul>ssh rahul@192.168.56.101
rahul@192.168.56.101's password:
Last login: Wed May 31 05:49:03 2023 from 192.168.56.1
-sh-4.2$ cd / system
-sh-4.2$ pwd
/
-sh-4.2$ sudo wget https://dev.mysql.com/get/mysql80-community-release-el7-3.noarch.rpm
--2023-05-31 08:32:23-- https://dev.mysql.com/get/mysql80-community-release-el7-3.noarch.rpm
Resolving dev.mysql.com (dev.mysql.com)... 192.0.2.1
Connecting to dev.mysql.com (dev.mysql.com)|192.0.2.1|:443... connected.
Unable to establish SSL connection.
-sh-4.2$ sudo wget https://dev.mysql.com/get/mysql80-community-release-el7-3.noarch.rpm
--2023-05-31 08:32:56-- https://dev.mysql.com/get/mysql80-community-release-el7-3.noarch.rpm
Resolving dev.mysql.com (dev.mysql.com)... 104.65.80.79, 2405:200:1630:db6::2e31, 2405:200:1630:da6::2e31
Connecting to dev.mysql.com (dev.mysql.com)|104.65.80.79|:443... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: https://repo.mysql.com/mysql80-community-release-el7-3.noarch.rpm [following]
--2023-05-31 08:32:58-- https://repo.mysql.com/mysql80-community-release-el7-3.noarch.rpm
Resolving repo.mysql.com (repo.mysql.com)... 49.44.146.86
Connecting to repo.mysql.com (repo.mysql.com)|49.44.146.86|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 26024 (25K) [application/x-redhat-package-manager]
Saving to: 'mysql80-community-release-el7-3.noarch.rpm'

100%[=====] 26,024      --.-K/s   in 0.04s

2023-05-31 08:33:00 (701 KB/s) - 'mysql80-community-release-el7-3.noarch.rpm' saved [26024/26024]

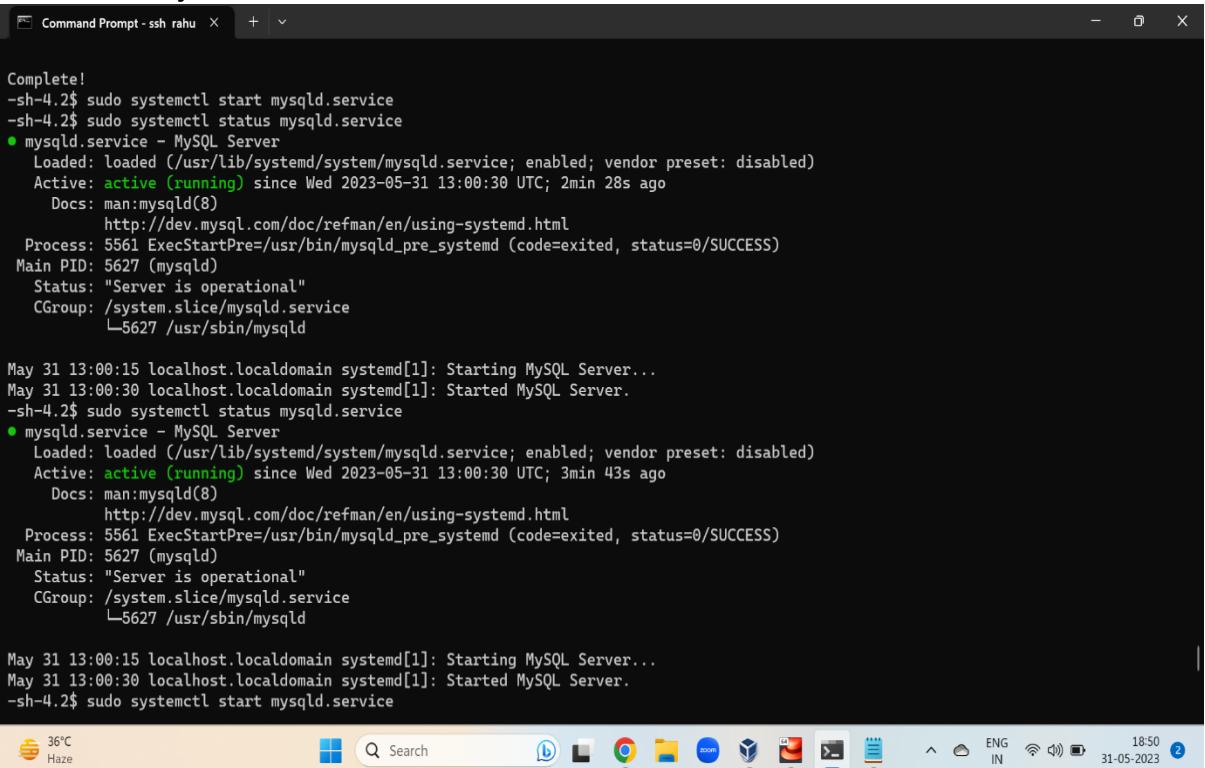
-sh-4.2$ sudo md5sum mysql80-community-release-el7-3.noarch.rpm
36°C
Haze
Search
ENG IN
18:48
31-05-2023
```

3. Install MySQL



```
zlib.x86_64 1.2.7-21.el7_9 @updates
-sh-4.2$ sudo yum install mysql-community-server
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
epel/x86_64/metalink
 * base: bd.mirror.vanehost.com
 * epel: epel.excellmedia.net
 * extras: bd.mirror.vanehost.com
 * updates: mirror-hk.koddos.net
mysql-connectors-community
mysql-tools-community
mysql80-community
updates
(1/3): mysql-connectors-community/x86_64/primary_db | 2.6 kB 00:00:00
(2/3): mysql-tools-community/x86_64/primary_db | 2.6 kB 00:00:00
(3/3): mysql80-community/x86_64/primary_db | 2.6 kB 00:00:00
Resolving Dependencies
---> Running transaction check
---> Package mysql-community-server.x86_64 0:8.0.33-1.el7 will be installed
---> Processing Dependency: mysql-community-common(x86-64) = 8.0.33-1.el7 for package: mysql-community-server-8.0.33-1.el7.x86_64
---> Processing Dependency: mysql-community-icu-data-files = 8.0.33-1.el7 for package: mysql-community-server-8.0.33-1.el7.x86_64
---> Processing Dependency: mysql-community-client(x86-64) >= 8.0.11 for package: mysql-community-server-8.0.33-1.el7.x86_64
---> Processing Dependency: libaio.so.1(LIBAIO_0.1)(64bit) for package: mysql-community-server-8.0.33-1.el7.x86_64
---> Processing Dependency: libaio.so.1(LIBAIO_0.4)(64bit) for package: mysql-community-server-8.0.33-1.el7.x86_64
---> Processing Dependency: net-tools for package: mysql-community-server-8.0.33-1.el7.x86_64
---> Processing Dependency: libaio.so.1()(64bit) for package: mysql-community-server-8.0.33-1.el7.x86_64
---> Running transaction check
---> Package libaio.x86_64 0:0.3.109-13.el7 will be installed
---> Package mysql-community-client.x86_64 0:8.0.33-1.el7 will be installed
---> Processing Dependency: mysql-community-client-plugins = 8.0.33-1.el7 for package: mysql-community-client-8.0.33-1.el7.x86_64
---> Processing Dependency: mysql-community-libs(x86-64) >= 8.0.11 for package: mysql-community-client-8.0.33-1.el7.x86_64
---> Package mysql-community-common.x86_64 0:8.0.33-1.el7 will be installed
36°C Haze Search 18:49 ENG IN 31-05-2023 2
```

4. Start the MySQL server.



```
Complete!
-sh-4.2$ sudo systemctl start mysqld.service
-sh-4.2$ sudo systemctl status mysqld.service
● mysqld.service - MySQL Server
   Loaded: loaded (/usr/lib/systemd/system/mysqld.service; enabled; vendor preset: disabled)
   Active: active (running) since Wed 2023-05-31 13:00:30 UTC; 2min 28s ago
     Docs: man:mysqld(8)
           http://dev.mysql.com/doc/refman/en/using-systemd.html
   Process: 5561 ExecStartPre=/usr/bin/mysqld_pre_systemd (code=exited, status=0/SUCCESS)
 Main PID: 5627 (mysqld)
   Status: "Server is operational"
  CGroup: /system.slice/mysqld.service
          └─5627 /usr/sbin/mysqld

May 31 13:00:15 localhost.localdomain systemd[1]: Starting MySQL Server...
May 31 13:00:30 localhost.localdomain systemd[1]: Started MySQL Server.
-sh-4.2$ sudo systemctl status mysqld.service
● mysqld.service - MySQL Server
   Loaded: loaded (/usr/lib/systemd/system/mysqld.service; enabled; vendor preset: disabled)
   Active: active (running) since Wed 2023-05-31 13:00:30 UTC; 3min 43s ago
     Docs: man:mysqld(8)
           http://dev.mysql.com/doc/refman/en/using-systemd.html
   Process: 5561 ExecStartPre=/usr/bin/mysqld_pre_systemd (code=exited, status=0/SUCCESS)
 Main PID: 5627 (mysqld)
   Status: "Server is operational"
  CGroup: /system.slice/mysqld.service
          └─5627 /usr/sbin/mysqld

May 31 13:00:15 localhost.localdomain systemd[1]: Starting MySQL Server...
May 31 13:00:30 localhost.localdomain systemd[1]: Started MySQL Server.
-sh-4.2$ sudo systemctl start mysqld.service
36°C Haze Search 18:50 ENG IN 31-05-2023 2
```

5. The first time you start MySQL, the super user account 'root'@'localhost' is created and a temporary password is generated for it. This password need to be changed now
6. Obtain the root password that was generated when you started MySQL for the first time.

```
Command Prompt - ssh rahu + v - X

-sh-4.2$ sudo systemctl start mysqld.service
-sh-4.2$ sudo grep 'temporary password' /var/log/mysqld.log
2023-05-31T13:00:20.854425Z 6 [Note] [MY-010454] [Server] A temporary password is generated for root@localhost: aFFo3oTqpd.<
```

7. Login with the password that you obtained from the previous step.

```
Command Prompt - ssh rahu + v - X

-sh-4.2$ sudo systemctl start mysqld.service
-sh-4.2$ sudo grep 'temporary password' /var/log/mysqld.log
2023-05-31T13:00:20.854425Z 6 [Note] [MY-010454] [Server] A temporary password is generated for root@localhost: aFFo3oTqpd.<
-sh-4.2$ mysql -u root -p
Enter password:
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
-sh-4.2$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.33

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

8. Change the root password. At the mysql prompt, type the following command.

```
Command Prompt - ssh rahu + v - X

Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.33

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'Rahulkumar@17';
Query OK, 0 rows affected (0.02 sec)

mysql> create user 'mmuser'@'%' identified by 'Rahulkumar@17';
Query OK, 0 rows affected (0.03 sec)
```

9. Create the Mattermost user ‘mmuser’.

```
Command Prompt - ssh rahu + v - X

Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.33

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'Rahulkumar@17';
Query OK, 0 rows affected (0.02 sec)

mysql> create user 'mmuser'@'%' identified by 'Rahulkumar@17';
Query OK, 0 rows affected (0.03 sec)
```

10. Create the Mattermost database.

```
Command Prompt - ssh rahu + X - D X

Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.33

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'Rahulkumar@17';
Query OK, 0 rows affected (0.02 sec)

mysql> create user 'mmuser'@'%' identified by 'Rahulkumar@17';
Query OK, 0 rows affected (0.03 sec)

mysql> create database mattermost;
Query OK, 1 row affected (0.01 sec)
```

11. Grant access privileges to the user 'mmuser'.

```
Command Prompt - ssh rahu + X - D X

Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.33

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

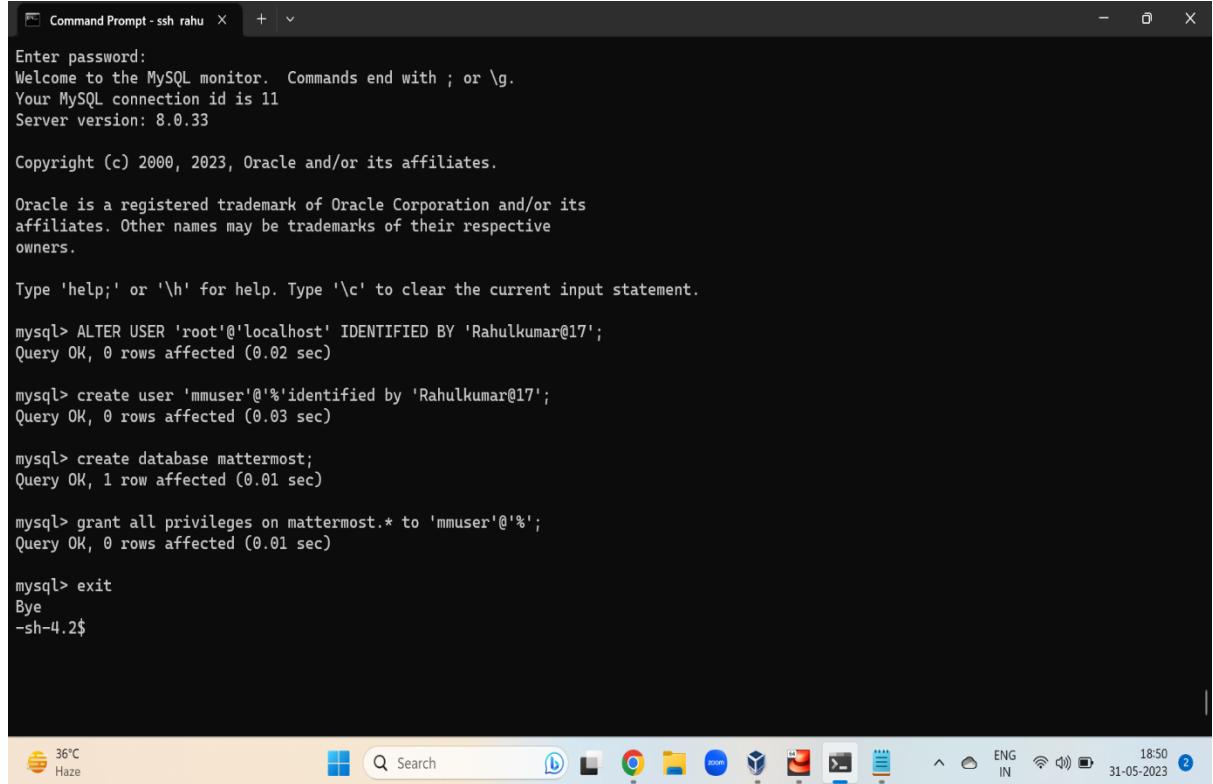
mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'Rahulkumar@17';
Query OK, 0 rows affected (0.02 sec)

mysql> create user 'mmuser'@'%' identified by 'Rahulkumar@17';
Query OK, 0 rows affected (0.03 sec)

mysql> create database mattermost;
Query OK, 1 row affected (0.01 sec)

mysql> grant all privileges on mattermost.* to 'mmuser'@'%';
Query OK, 0 rows affected (0.01 sec)
```

12. Logout of MySQL (use exit).



```
Command Prompt - ssh rahu + v

Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.33

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'Rahulkumar@17';
Query OK, 0 rows affected (0.02 sec)

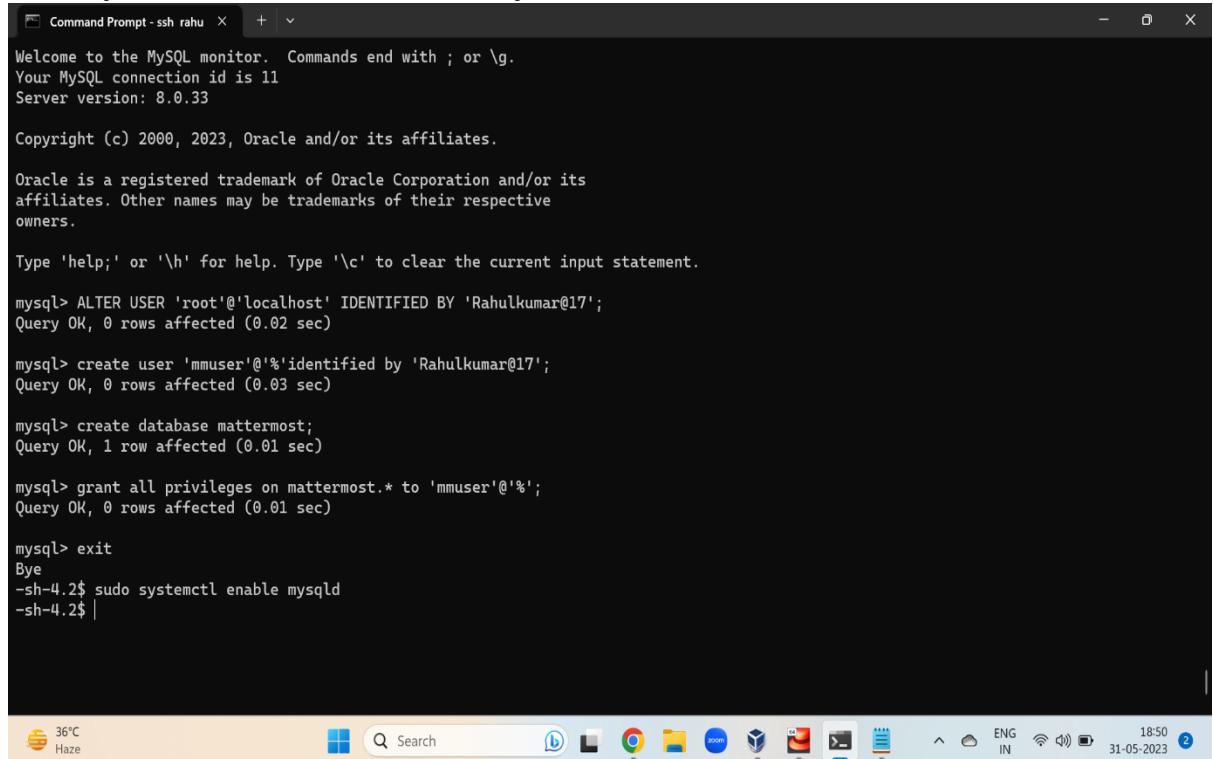
mysql> create user 'mmuser'@'%' identified by 'Rahulkumar@17';
Query OK, 0 rows affected (0.03 sec)

mysql> create database mattermost;
Query OK, 1 row affected (0.01 sec)

mysql> grant all privileges on mattermost.* to 'mmuser'@'%';
Query OK, 0 rows affected (0.01 sec)

mysql> exit
Bye
-sh-4.2$
```

13. Set MySQL to start automatically when the machine starts.



```
Command Prompt - ssh rahu + v

Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.33

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'Rahulkumar@17';
Query OK, 0 rows affected (0.02 sec)

mysql> create user 'mmuser'@'%' identified by 'Rahulkumar@17';
Query OK, 0 rows affected (0.03 sec)

mysql> create database mattermost;
Query OK, 1 row affected (0.01 sec)

mysql> grant all privileges on mattermost.* to 'mmuser'@'%';
Query OK, 0 rows affected (0.01 sec)

mysql> exit
Bye
-sh-4.2$ sudo systemctl enable mysqld
-sh-4.2$ |
```

Install Mattermost server

1. Go to the directory “software” in your home directory and download the latest version of the Mattermost Server.



```
Command Prompt - ssh rahu + v
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\rahul>ssh rahul@192.168.56.101
rahul@192.168.56.101's password:
Last login: Wed May 31 07:03:40 2023 from 192.168.56.1
-sh-4.2$ pwd
/home/rahul
-sh-4.2$ cd / software
-sh-4.2$ sudo wget https://releases.mattermost.com/6.6.1/mattermost-6.6.1-linux-amd64.tar.gz
--2023-05-31 13:25:16-- https://releases.mattermost.com/6.6.1/mattermost-6.6.1-linux-amd64.tar.gz
Resolving releases.mattermost.com (releases.mattermost.com)... 13.249.235.112, 13.249.235.98, 13.249.235.93, ...
Connecting to releases.mattermost.com (releases.mattermost.com)|13.249.235.112|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 329062904 (314M) [application/x-tar]
Saving to: 'mattermost-6.6.1-linux-amd64.tar.gz'

100%[=====] 329,062,904 2.10MB/s in 9m 7s

2023-05-31 13:34:23 (587 KB/s) - 'mattermost-6.6.1-linux-amd64.tar.gz' saved [329062904/329062904]

-sh-4.2$
```

2. Extract the Mattermost Server files.



```
Command Prompt - ssh rahu + v
mattermost/client/images/browser-icons/edge.svg
mattermost/client/images/browser-icons/firefox.svg
mattermost/client/images/browser-icons/mac.png
mattermost/client/images/browser-icons/safari.svg
mattermost/client/images/browser-icons/windows.svg
mattermost/client/images/cards/
mattermost/client/images/cards/mastercard.png
mattermost/client/images/cards/visa.jpg
mattermost/client/images/cards/amex.png
mattermost/client/images/cards/dinersclub.png
mattermost/client/images/cards/discover.jpg
mattermost/client/images/cards/jcb.png
mattermost/client/main.54a384511ae531961ca5.js
mattermost/client/main.54a384511ae531961ca5.js.LICENSE.txt
mattermost/client/main.54a384511ae531961ca5.js.map
mattermost/client/main.d4d4065a633f175eb096.css
mattermost/client/main.d4d4065a633f175eb096.css.map
mattermost/client/manifest.json
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.LICENSE.txt
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.map
mattermost/client/root.html
mattermost/ENTERPRISE-EDITION-LICENSE.txt
mattermost/NOTICE.txt
mattermost/README.md
mattermost/manifest.txt
```

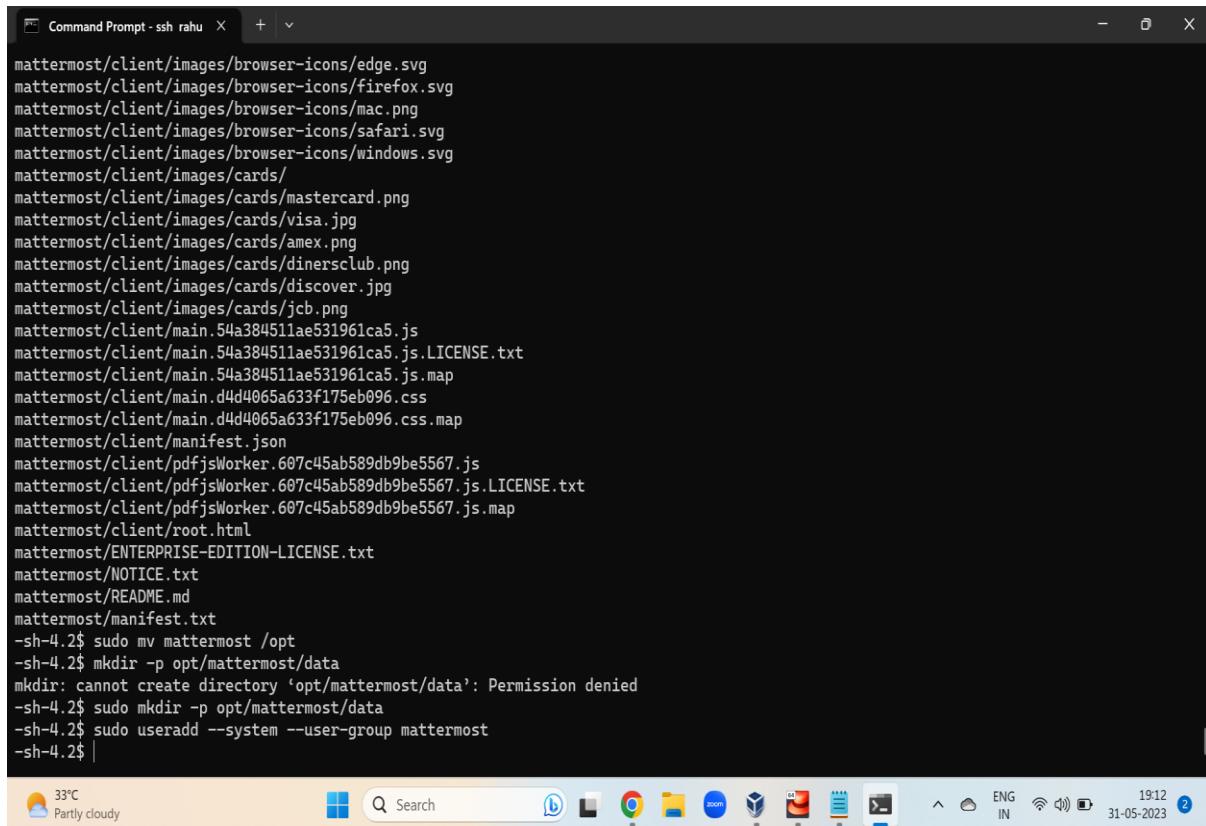
3. Move the extracted file to the /opt directory.

```
PS Command Prompt - ssh rahu + X - D X
mattermost/client/images/browser-icons/edge.svg
mattermost/client/images/browser-icons/firefox.svg
mattermost/client/images/browser-icons/mac.png
mattermost/client/images/browser-icons/safari.svg
mattermost/client/images/browser-icons/windows.svg
mattermost/client/images/cards/
mattermost/client/images/cards/mastercard.png
mattermost/client/images/cards/visa.jpg
mattermost/client/images/cards/amex.png
mattermost/client/images/cards/dinersclub.png
mattermost/client/images/cards/discover.jpg
mattermost/client/images/cards/jcb.png
mattermost/client/main.54a384511ae531961ca5.js
mattermost/client/main.54a384511ae531961ca5.js.LICENSE.txt
mattermost/client/main.54a384511ae531961ca5.js.map
mattermost/client/main.d4d4065a633f175eb096.css
mattermost/client/main.d4d4065a633f175eb096.css.map
mattermost/client/manifest.json
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.LICENSE.txt
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.map
mattermost/client/root.html
mattermost/ENTERPRISE-EDITION-LICENSE.txt
mattermost/NOTICE.txt
mattermost/README.md
mattermost/manifest.txt
-sh-4.2$ sudo mv mattermost /opt
```

4. /opt/mattermost is referred as the Mattermost directory. Create the storage directory for files (/opt/mattermost/data).

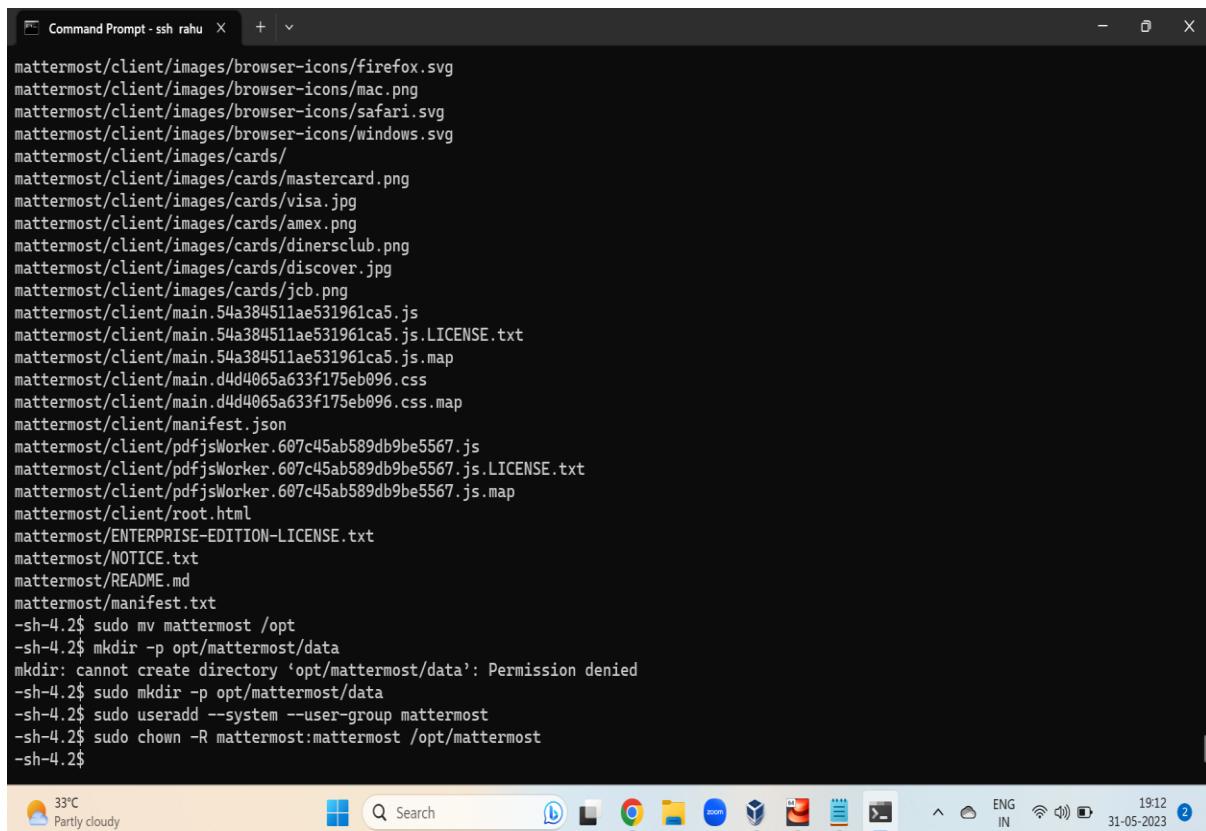
```
PS Command Prompt - ssh rahu + X - D X
mattermost/client/images/browser-icons/edge.svg
mattermost/client/images/browser-icons/firefox.svg
mattermost/client/images/browser-icons/mac.png
mattermost/client/images/browser-icons/safari.svg
mattermost/client/images/browser-icons/windows.svg
mattermost/client/images/cards/
mattermost/client/images/cards/mastercard.png
mattermost/client/images/cards/visa.jpg
mattermost/client/images/cards/amex.png
mattermost/client/images/cards/dinersclub.png
mattermost/client/images/cards/discover.jpg
mattermost/client/images/cards/jcb.png
mattermost/client/main.54a384511ae531961ca5.js
mattermost/client/main.54a384511ae531961ca5.js.LICENSE.txt
mattermost/client/main.54a384511ae531961ca5.js.map
mattermost/client/main.d4d4065a633f175eb096.css
mattermost/client/main.d4d4065a633f175eb096.css.map
mattermost/client/manifest.json
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.LICENSE.txt
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.map
mattermost/client/root.html
mattermost/ENTERPRISE-EDITION-LICENSE.txt
mattermost/NOTICE.txt
mattermost/README.md
mattermost/manifest.txt
-sh-4.2$ sudo mv mattermost /opt
-sh-4.2$ mkdir -p opt/mattermost/data
mkdir: cannot create directory 'opt/mattermost/data': Permission denied
-sh-4.2$ sudo mkdir -p opt/mattermost/data
```

5. Create a system user and group called mattermost that will run this service, and set the ownership and permissions to the mattermost directory including child directories and files.



```
mattermost/client/images/browser-icons/edge.svg
mattermost/client/images/browser-icons/firefox.svg
mattermost/client/images/browser-icons/mac.png
mattermost/client/images/browser-icons/safari.svg
mattermost/client/images/browser-icons/windows.svg
mattermost/client/images/cards/
mattermost/client/images/cards/mastercard.png
mattermost/client/images/cards/visa.jpg
mattermost/client/images/cards/amex.png
mattermost/client/images/cards/dinersclub.png
mattermost/client/images/cards/discover.jpg
mattermost/client/images/cards/jcb.png
mattermost/client/main.54a384511ae531961ca5.js
mattermost/client/main.54a384511ae531961ca5.js.LICENSE.txt
mattermost/client/main.54a384511ae531961ca5.js.map
mattermost/client/main.d4d4065a633f175eb096.css
mattermost/client/main.d4d4065a633f175eb096.css.map
mattermost/client/manifest.json
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.LICENSE.txt
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.map
mattermost/client/root.html
mattermost/ENTERPRISE-EDITION-LICENSE.txt
mattermost/NOTICE.txt
mattermost/README.md
mattermost/manifest.txt
-sh-4.2$ sudo mv mattermost /opt
-sh-4.2$ mkdir -p opt/mattermost/data
mkdir: cannot create directory 'opt/mattermost/data': Permission denied
-sh-4.2$ sudo mkdir -p opt/mattermost/data
-sh-4.2$ sudo useradd --system --user-group mattermost
-sh-4.2$ |
```

6. Set up the database driver in the file `/opt/mattermost/config/config.json`. Open the file as root in a text editor and make the following changes:



```
mattermost/client/images/browser-icons/edge.svg
mattermost/client/images/browser-icons/firefox.svg
mattermost/client/images/browser-icons/mac.png
mattermost/client/images/browser-icons/safari.svg
mattermost/client/images/browser-icons/windows.svg
mattermost/client/images/cards/
mattermost/client/images/cards/mastercard.png
mattermost/client/images/cards/visa.jpg
mattermost/client/images/cards/amex.png
mattermost/client/images/cards/dinersclub.png
mattermost/client/images/cards/discover.jpg
mattermost/client/images/cards/jcb.png
mattermost/client/main.54a384511ae531961ca5.js
mattermost/client/main.54a384511ae531961ca5.js.LICENSE.txt
mattermost/client/main.54a384511ae531961ca5.js.map
mattermost/client/main.d4d4065a633f175eb096.css
mattermost/client/main.d4d4065a633f175eb096.css.map
mattermost/client/manifest.json
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.LICENSE.txt
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.map
mattermost/client/root.html
mattermost/ENTERPRISE-EDITION-LICENSE.txt
mattermost/NOTICE.txt
mattermost/README.md
mattermost/manifest.txt
-sh-4.2$ sudo mv mattermost /opt
-sh-4.2$ mkdir -p opt/mattermost/data
mkdir: cannot create directory 'opt/mattermost/data': Permission denied
-sh-4.2$ sudo mkdir -p opt/mattermost/data
-sh-4.2$ sudo useradd --system --user-group mattermost
-sh-4.2$ sudo chown -R mattermost:mattermost /opt/mattermost
-sh-4.2$ |
```

```
[-] Command Prompt - ssh rahu + v - x
mattermost/client/main.54a384511ae531961ca5.js.map
mattermost/client/main.d4d4065a633f175eb096.css
mattermost/client/main.d4d4065a633f175eb096.css.map
mattermost/client/manifest.json
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.LICENSE.txt
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.map
mattermost/client/root.html
mattermost/ENTERPRISE-EDITION-LICENSE.txt
mattermost/NOTICE.txt
mattermost/README.md
mattermost/manifest.txt
-sh-4.2$ sudo mv mattermost /opt
-sh-4.2$ mkdir -p opt/mattermost/data
mkdir: cannot create directory 'opt/mattermost/data': Permission denied
-sh-4.2$ sudo mkdir -p opt/mattermost/data
-sh-4.2$ sudo useradd --system --user-group mattermost
-sh-4.2$ sudo chown -R mattermost:mattermost /opt/mattermost
-sh-4.2$ sudo chmod -R g+w /opt/mattermost
-sh-4.2$ cd /opt/mattermost/config/config.json
-sh: cd: /opt/mattermost/config/config.json: Not a directory
-sh-4.2$ cd /opt/mattermost/config
-sh-4.2$ ls
cloud_defaults.json config.json README.md
-sh-4.2$ sudo vi config.json
-sh-4.2$ sudo vi config.json
-sh-4.2$ sudo vi config.json
+ "": {
```

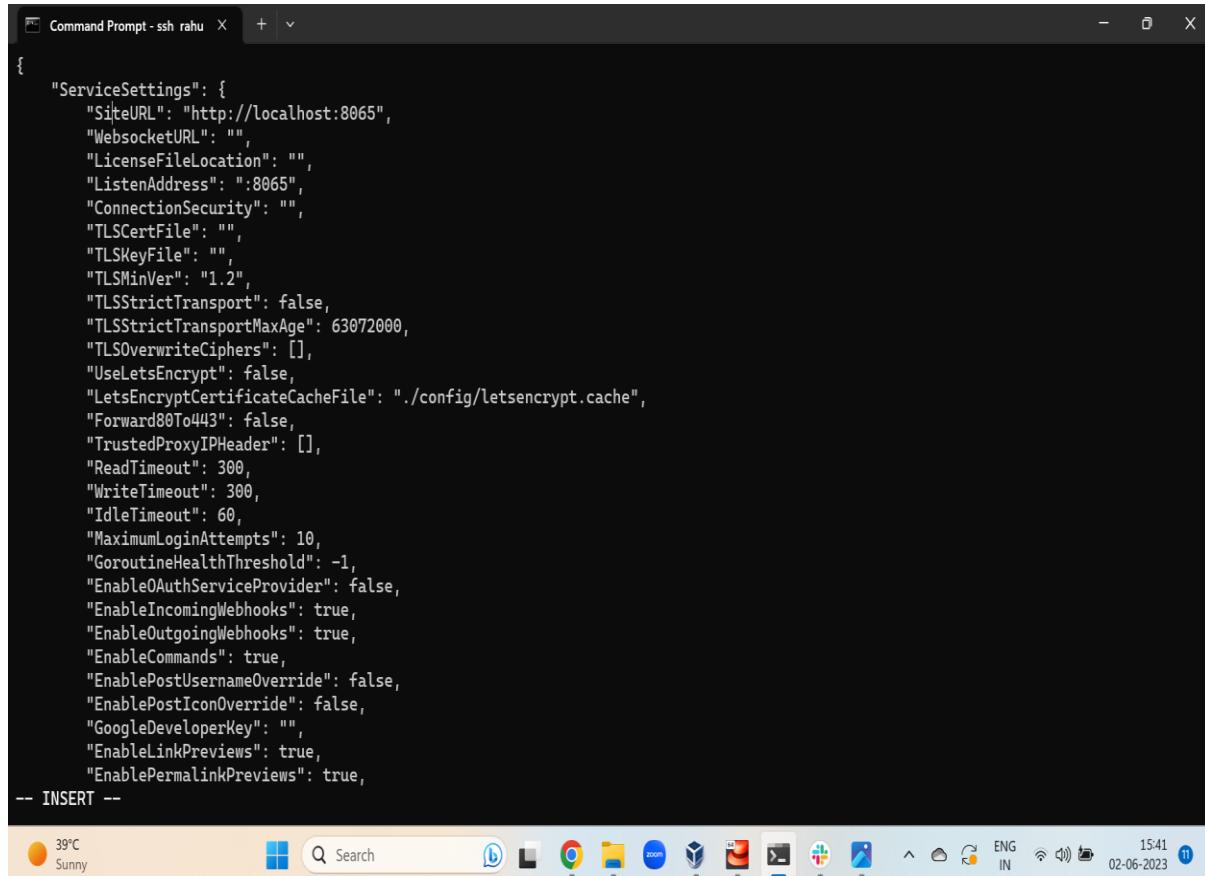
6.1 Set "DriverName" to "mysql"

6.2 Set "DataSource" to the following value, replacing <mmuser-password> and <host-name-or-IP> with the appropriate values.

```
Command Prompt - ssh rahu + x - D X

"RestrictCreationToDomains": "",  
"EnableCustomUserStatuses": true,  
"EnableCustomBrand": false,  
"CustomBrandText": "",  
"CustomDescriptionText": "",  
"RestrictDirectMessage": "any",  
"UserStatusAwayTimeout": 300,  
"MaxChannelsPerTeam": 2000,  
"MaxNotificationsPerChannel": 1000,  
"EnableConfirmNotificationsToChannel": true,  
"TeammateNameDisplay": "username",  
"ExperimentalViewArchivedChannels": true,  
"ExperimentalEnableAutomaticReplies": false,  
"LockTeammateNameDisplay": false,  
"ExperimentalPrimaryTeam": "",  
"ExperimentalDefaultChannels": []  
},  
"ClientRequirements": {  
    "AndroidLatestVersion": "",  
    "AndroidMinVersion": "",  
    "IosLatestVersion": "",  
    "IosMinVersion": ""  
},  
"SqlSettings": {  
    "DriverName": "mysql",  
    "DataSource": "mmuser:Rahulkumar@17@tcp(192.168.56.101:3306)/mattermost?charset=utf8mb4,utf8\u0026writeTimeout=30s",  
    "DataSourceReplicas": [],  
    "DataSourceSearchReplicas": [],  
    "MaxIdleConns": 20,  
    "ConnMaxLifetimeMilliseconds": 3600000,  
    "ConnMaxIdleTimeMilliseconds": 300000,  
-- INSERT --
```

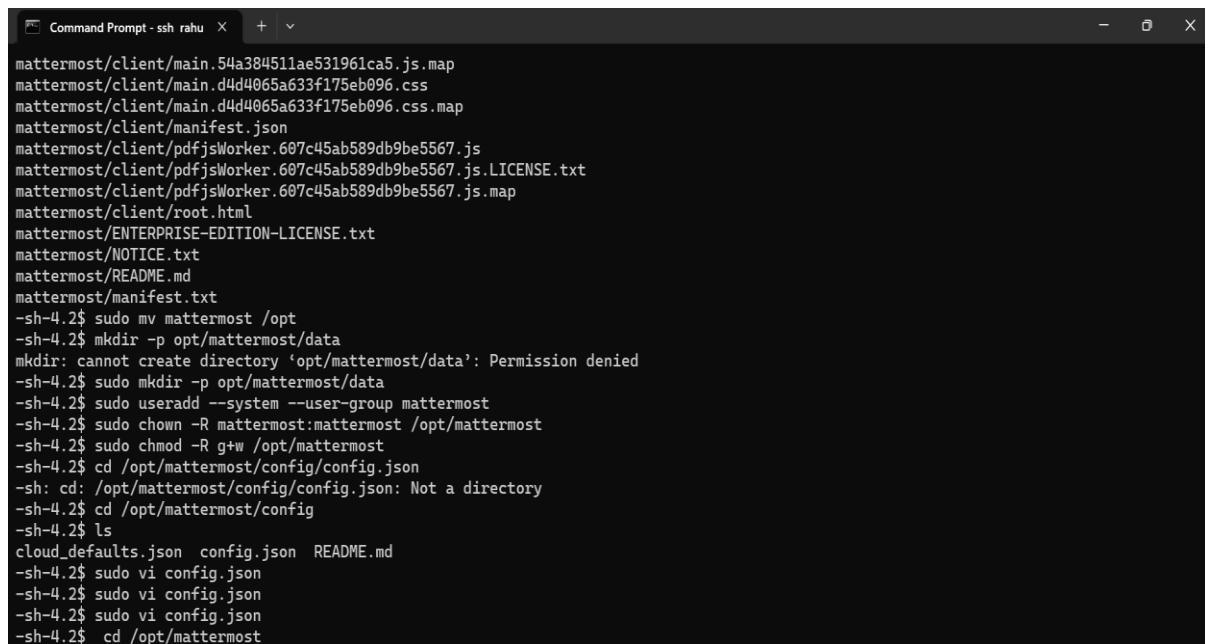
6.3 Also set "SiteURL" to the full base URL of the site (e.g. "http://localhost").



```
{  
    "ServiceSettings": {  
        "SiteURL": "http://localhost:8065",  
        "WebSocketURL": "",  
        "LicenseFileLocation": "",  
        "ListenAddress": ":8065",  
        "ConnectionSecurity": "",  
        "TLCertFile": "",  
        "TLSKeyFile": "",  
        "TLSMinVer": "1.2",  
        "TLSStrictTransport": false,  
        "TLSStrictTransportMaxAge": 63072000,  
        "TLSOverwriteCiphers": [],  
        "UseLetsEncrypt": false,  
        "LetsEncryptCertificateCacheFile": "./config/letsencrypt.cache",  
        "Forward80To443": false,  
        "TrustedProxyIPHeader": [],  
        "ReadTimeout": 300,  
        "WriteTimeout": 300,  
        "IdleTimeout": 60,  
        "MaximumLoginAttempts": 10,  
        "GoroutineHealthThreshold": -1,  
        "EnableOAuthServiceProvider": false,  
        "EnableIncomingWebhooks": true,  
        "EnableOutgoingWebhooks": true,  
        "EnableCommands": true,  
        "EnablePostUsernameOverride": false,  
        "EnablePostIconOverride": false,  
        "GoogleDeveloperKey": "",  
        "EnableLinkPreviews": true,  
        "EnablePermalinkPreviews": true,  
    }  
-- INSERT --  
39°C Sunny 15:41 02-06-2023
```

7. Test the Mattermost server to make sure everything works.

7.1 Change to the mattermost directory.



```
mattermost/client/main.54a384511ae531961ca5.js.map  
mattermost/client/main.d4d4065a633f175eb096.css  
mattermost/client/main.d4d4065a633f175eb096.css.map  
mattermost/client/manifest.json  
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js  
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.LICENSE.txt  
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.map  
mattermost/client/root.html  
mattermost/ENTERPRISE-EDITION-LICENSE.txt  
mattermost/NOTICE.txt  
mattermost/README.md  
mattermost/manifest.txt  
-sh-4.2$ sudo mv mattermost /opt  
-sh-4.2$ mkdir -p opt/mattermost/data  
mkdir: cannot create directory 'opt/mattermost/data': Permission denied  
-sh-4.2$ sudo mkdir -p opt/mattermost/data  
-sh-4.2$ sudo useradd --system --user-group mattermost  
-sh-4.2$ sudo chown -R mattermost:mattermost /opt/mattermost  
-sh-4.2$ sudo chmod -R g+w /opt/mattermost  
-sh-4.2$ cd /opt/mattermost/config/config.json  
-sh: cd: /opt/mattermost/config/config.json: Not a directory  
-sh-4.2$ cd /opt/mattermost/config  
-sh-4.2$ ls  
cloud_defaults.json config.json README.md  
-sh-4.2$ sudo vi config.json  
-sh-4.2$ sudo vi config.json  
-sh-4.2$ sudo vi config.json  
-sh-4.2$ cd /opt/mattermost
```

7.2 Start the Mattermost server (bin/mattermost) as the user mattermost.

```
mattermost/client/main.54a384511ae531961ca5.js.map
mattermost/client/main.d4d4065a633f175eb096.css
mattermost/client/main.d4d4065a633f175eb096.css.map
mattermost/client/manifest.json
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.LICENSE.txt
mattermost/client/pdfjsWorker.607c45ab589db9be5567.js.map
mattermost/client/root.html
mattermost/ENTERPRISE-EDITION-LICENSE.txt
mattermost/NOTICE.txt
mattermost/README.md
mattermost/manifest.txt
-sh-4.2$ sudo mv mattermost /opt
-sh-4.2$ mkdir -p opt/mattermost/data
mkdir: cannot create directory 'opt/mattermost/data': Permission denied
-sh-4.2$ sudo mkdir -p opt/mattermost/data
-sh-4.2$ sudo useradd --system --user-group mattermost
-sh-4.2$ sudo chown -R mattermost:mattermost /opt/mattermost
-sh-4.2$ sudo chmod -R g+w /opt/mattermost
-sh-4.2$ cd /opt/mattermost/config/config.json
-sh: cd: /opt/mattermost/config/config.json: Not a directory
-sh-4.2$ cd /opt/mattermost/config
-sh-4.2$ ls
cloud_defaults.json config.json README.md
-sh-4.2$ sudo vi config.json
-sh-4.2$ sudo vi config.json
-sh-4.2$ sudo vi config.json
-sh-4.2$ cd /opt/mattermost
-sh-4.2$ sudo -u mattermost ./bin/mattermost
```

```
{"timestamp": "2023-05-31 23:43:37.694 Z", "level": "info", "msg": "connectDatabase", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "dbType": "mysql"}
{"timestamp": "2023-05-31 23:43:38.840 Z", "level": "info", "msg": "Initialized notification backend", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "name": "notifyMentions"}
{"timestamp": "2023-05-31 23:43:38.881 Z", "level": "info", "msg": "Initialized notification backend", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "name": "notifySubscriptions"}
{"timestamp": "2023-05-31 23:43:38.882 Z", "level": "info", "msg": "Initialized notification backend", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "name": "notifyLogger"}
{"timestamp": "2023-05-31 23:43:38.948 Z", "level": "info", "msg": "Server.Start", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard"}
{"timestamp": "2023-05-31 23:43:39.158 Z", "level": "error", "msg": "Mail server connection test is failed", "caller": "app/server.go:1192", "error": "SendEmailNotifications is not true"}
{"timestamp": "2023-05-31 23:43:39.195 Z", "level": "info", "msg": "Starting Server...", "caller": "app/server.go:1209"}
{"timestamp": "2023-05-31 23:43:39.227 Z", "level": "info", "msg": "Server is listening on [::]:8065", "caller": "app/server.go:1282", "address": "[::]:8065"}
{"timestamp": "2023-05-31 23:44:37.314 Z", "level": "info", "msg": "Stopping Server...", "caller": "app/server.go:968"}
{"timestamp": "2023-05-31 23:44:37.576 Z", "level": "info", "msg": "Stopping websocket hub connections", "caller": "app/web_hub.go:113"}
{"timestamp": "2023-05-31 23:44:37.658 Z", "level": "info", "msg": "Stopped workers", "caller": "jobs/workers.go:90"}
{"timestamp": "2023-05-31 23:44:37.659 Z", "level": "info", "msg": "Stopping schedulers.", "caller": "jobs/schedulers.go:118"}
{"timestamp": "2023-05-31 23:44:37.659 Z", "level": "info", "msg": "Schedulers stopped.", "caller": "jobs/schedulers.go:50"}
{"timestamp": "2023-05-31 23:44:37.677 Z", "level": "info", "msg": "Server stopped", "caller": "app/server.go:1048"}
{"timestamp": "2023-05-31 23:44:37.677 Z", "level": "info", "msg": "Shutting down plugins", "caller": "app/plugin.go:339"}
{"timestamp": "2023-05-31 23:44:39.461 Z", "level": "info", "msg": "Server Shutdown", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard"}
```

8. Set up Matter most to use the system init daemon which handles supervision of the Mattermost process.

8.1 Create the Mattermost configuration file :/etc/systemd/system/mattermost.service.

```

Command Prompt - ssh rahu + v - X
[{"timestamp": "2023-05-31 23:43:37.694 Z", "level": "info", "msg": "connectDatabase", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "dbType": "mysql"}, {"timestamp": "2023-05-31 23:43:38.840 Z", "level": "info", "msg": "Initialized notification backend", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "name": "notifyMentions"}, {"timestamp": "2023-05-31 23:43:38.881 Z", "level": "info", "msg": "Initialized notification backend", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "name": "notifySubscriptions"}, {"timestamp": "2023-05-31 23:43:38.882 Z", "level": "info", "msg": "Initialized notification backend", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "name": "notifyLogger"}, {"timestamp": "2023-05-31 23:43:38.948 Z", "level": "info", "msg": "Server.Start", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard"}, {"timestamp": "2023-05-31 23:43:39.158 Z", "level": "error", "msg": "Mail server connection test is failed", "caller": "app/server.go:1192", "error": "SendEmailNotifications is not true"}, {"timestamp": "2023-05-31 23:43:39.195 Z", "level": "info", "msg": "Starting Server...", "caller": "app/server.go:1209"}, {"timestamp": "2023-05-31 23:43:39.227 Z", "level": "info", "msg": "Server is listening on [::]:8065", "caller": "app/server.go:1282", "address": "[::]:8065"}, {"C{"timestamp": "2023-05-31 23:44:37.314 Z", "level": "info", "msg": "Stopping Server...", "caller": "app/server.go:968"}, {"timestamp": "2023-05-31 23:44:37.576 Z", "level": "info", "msg": "stopping websocket hub connections", "caller": "app/web_hub.go:113"}, {"timestamp": "2023-05-31 23:44:37.658 Z", "level": "info", "msg": "Stopped workers", "caller": "jobs/workers.go:90"}, {"timestamp": "2023-05-31 23:44:37.659 Z", "level": "info", "msg": "Stopping schedulers.", "caller": "jobs/schedulers.go:118"}, {"timestamp": "2023-05-31 23:44:37.659 Z", "level": "info", "msg": "Schedulers stopped.", "caller": "jobs/schedulers.go:50"}, {"timestamp": "2023-05-31 23:44:37.677 Z", "level": "info", "msg": "Server stopped", "caller": "app/server.go:1048"}, {"timestamp": "2023-05-31 23:44:37.677 Z", "level": "info", "msg": "Shutting down plugins", "caller": "app/plugin.go:339"}, {"timestamp": "2023-05-31 23:44:39.461 Z", "level": "info", "msg": "Server Shutdown", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard"}, -sh-4.2$ cd /etc/systemd/system -sh-4.2$ sudo touch mattermost.service -sh-4.2$ ls basic.target.wants          getty.target.wants      mytimelog.service      system-update.target.wants dbus-org.freedesktop.nm-dispatcher.service local-fs.target.wants  network-online.target.wants  vmtoolsd.service.requires default.target                  logtime.sh           remote-fs.target.wants default.target.wants        mattermost.service    sockets.target.wants dev-virtio\x2dports-org.qemu.guest_agent.0.device.wants multi-user.target.wants sysinit.target.wants

```

8.2 Open the configuration file, and copy the following lines into the file:

```

Command Prompt - ssh rahu + v - X
[{"timestamp": "2023-05-31 23:43:37.694 Z", "level": "info", "msg": "connectDatabase", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "dbType": "mysql"}, {"timestamp": "2023-05-31 23:43:38.840 Z", "level": "info", "msg": "Initialized notification backend", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "name": "notifyMentions"}, {"timestamp": "2023-05-31 23:43:38.881 Z", "level": "info", "msg": "Initialized notification backend", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "name": "notifySubscriptions"}, {"timestamp": "2023-05-31 23:43:38.882 Z", "level": "info", "msg": "Initialized notification backend", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "name": "notifyLogger"}, {"timestamp": "2023-05-31 23:43:38.948 Z", "level": "info", "msg": "Server.Start", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard"}, {"timestamp": "2023-05-31 23:43:39.158 Z", "level": "error", "msg": "Mail server connection test is failed", "caller": "app/server.go:1192", "error": "SendEmailNotifications is not true"}, {"timestamp": "2023-05-31 23:43:39.195 Z", "level": "info", "msg": "Starting Server...", "caller": "app/server.go:1209"}, {"timestamp": "2023-05-31 23:43:39.227 Z", "level": "info", "msg": "Server is listening on [::]:8065", "caller": "app/server.go:1282", "address": "[::]:8065"}, {"C{"timestamp": "2023-05-31 23:44:37.314 Z", "level": "info", "msg": "Stopping Server...", "caller": "app/server.go:968"}, {"timestamp": "2023-05-31 23:44:37.576 Z", "level": "info", "msg": "stopping websocket hub connections", "caller": "app/web_hub.go:113"}, {"timestamp": "2023-05-31 23:44:37.658 Z", "level": "info", "msg": "Stopped workers", "caller": "jobs/workers.go:90"}, {"timestamp": "2023-05-31 23:44:37.659 Z", "level": "info", "msg": "Stopping schedulers.", "caller": "jobs/schedulers.go:118"}, {"timestamp": "2023-05-31 23:44:37.659 Z", "level": "info", "msg": "Schedulers stopped.", "caller": "jobs/schedulers.go:50"}, {"timestamp": "2023-05-31 23:44:37.677 Z", "level": "info", "msg": "Server stopped", "caller": "app/server.go:1048"}, {"timestamp": "2023-05-31 23:44:37.677 Z", "level": "info", "msg": "Shutting down plugins", "caller": "app/plugin.go:339"}, {"timestamp": "2023-05-31 23:44:39.461 Z", "level": "info", "msg": "Server Shutdown", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard"}, -sh-4.2$ cd /etc/systemd/system -sh-4.2$ sudo touch mattermost.service -sh-4.2$ ls basic.target.wants          getty.target.wants      mytimelog.service      system-update.target.wants dbus-org.freedesktop.nm-dispatcher.service local-fs.target.wants  network-online.target.wants  vmtoolsd.service.requires default.target                  logtime.sh           remote-fs.target.wants default.target.wants        mattermost.service    sockets.target.wants dev-virtio\x2dports-org.qemu.guest_agent.0.device.wants multi-user.target.wants sysinit.target.wants -sh-4.2$ sudo vi mattermost.service

```

9. Set the configuration file permissions such that the owner of the file has read and write access, while the group members and other users on the system only have read access.

```

Command Prompt - ssh rahu + X - ⌂ X

{"timestamp":"2023-05-31 23:43:37.694 Z","level":"info","msg":"connectDatabase","caller":"app/plugin_api.go:937","plugin_id":"focalboard","dbType":"mysql"}
[{"timestamp":"2023-05-31 23:43:38.840 Z","level":"info","msg":"Initialized notification backend","caller":"app/plugin_api.go:937","plugin_id":"focalboard","name":"notifyMentions"}
[{"timestamp":"2023-05-31 23:43:38.881 Z","level":"info","msg":"Initialized notification backend","caller":"app/plugin_api.go:937","plugin_id":"focalboard","name":"notifySubscriptions"}
[{"timestamp":"2023-05-31 23:43:38.882 Z","level":"info","msg":"Initialized notification backend","caller":"app/plugin_api.go:937","plugin_id":"focalboard","name":"notifyLogger"}
[{"timestamp":"2023-05-31 23:43:38.948 Z","level":"info","msg":"Server.Start","caller":"app/plugin_api.go:937","plugin_id":"focalboard"}
[{"timestamp":"2023-05-31 23:43:39.158 Z","level":"error","msg":"Mail server connection test is failed","caller":"app/server.go:1192","error":"SendEmailNotifications is not true"}
[{"timestamp":"2023-05-31 23:43:39.195 Z","level":"info","msg":"Starting Server...","caller":"app/server.go:1209"}
[{"timestamp":"2023-05-31 23:43:39.227 Z","level":"info","msg":"Server is listening on [::]:8065","caller":"app/server.go:1282","address":":8065"}
^C["timestamp":"2023-05-31 23:44:37.314 Z","level":"info","msg":"Stopping Server...","caller":"app/server.go:968"]
[{"timestamp":"2023-05-31 23:44:37.576 Z","level":"info","msg":"stopping websocket hub connections","caller":"app/web_hub.go:113"}
[{"timestamp":"2023-05-31 23:44:37.658 Z","level":"info","msg":"Stopped workers","caller":"jobs/workers.go:90"}
[{"timestamp":"2023-05-31 23:44:37.659 Z","level":"info","msg":"Stopping schedulers.","caller":"jobs/schedulers.go:118"}
[{"timestamp":"2023-05-31 23:44:37.659 Z","level":"info","msg":"Schedulers stopped.","caller":"jobs/schedulers.go:50"}
[{"timestamp":"2023-05-31 23:44:37.677 Z","level":"info","msg":"Server stopped","caller":"app/server.go:1048"}
[{"timestamp":"2023-05-31 23:44:37.677 Z","level":"info","msg":"Shutting down plugins","caller":"app/plugin.go:339"}
[{"timestamp":"2023-05-31 23:44:39.461 Z","level":"info","msg":"Server Shutdown","caller":"app/plugin_api.go:937","plugin_id":"focalboard"}
-sh-4.2$ cd /etc/systemd/system
-sh-4.2$ sudo touch mattermost.service
-sh-4.2$ ls
basic.target.wants          getty.target.wants      mytimelog.service      system-update.target.wants
dbus-org.freedesktop.nm-dispatcher.service local-fs.target.wants  network-online.target.wants  vmtoolsd.service.requires
default.target               logtime.sh           remote-fs.target.wants
default.target.wants         mattermost.service    sockets.target.wants
dev-virtio\x2dports-org.qemu.guest_agent.0.device.wants multi-user.target.wants sysinit.target.wants
-sh-4.2$ sudo vi mattermost.service
-sh-4.2$ sudo chmod 644 /etc/systemd/system/mattermost.service

```

10. Reload the system services

```

Command Prompt - ssh rahu + X - ⌂ X

{"timestamp":"2023-05-31 23:43:37.694 Z","level":"info","msg":"connectDatabase","caller":"app/plugin_api.go:937","plugin_id":"focalboard","dbType":"mysql"}
[{"timestamp":"2023-05-31 23:43:38.840 Z","level":"info","msg":"Initialized notification backend","caller":"app/plugin_api.go:937","plugin_id":"focalboard","name":"notifyMentions"}
[{"timestamp":"2023-05-31 23:43:38.881 Z","level":"info","msg":"Initialized notification backend","caller":"app/plugin_api.go:937","plugin_id":"focalboard","name":"notifySubscriptions"}
[{"timestamp":"2023-05-31 23:43:38.882 Z","level":"info","msg":"Initialized notification backend","caller":"app/plugin_api.go:937","plugin_id":"focalboard","name":"notifyLogger"}
[{"timestamp":"2023-05-31 23:43:38.948 Z","level":"info","msg":"Server.Start","caller":"app/plugin_api.go:937","plugin_id":"focalboard"}
[{"timestamp":"2023-05-31 23:43:39.158 Z","level":"error","msg":"Mail server connection test is failed","caller":"app/server.go:1192","error":"SendEmailNotifications is not true"}
[{"timestamp":"2023-05-31 23:43:39.195 Z","level":"info","msg":"Starting Server...","caller":"app/server.go:1209"}
[{"timestamp":"2023-05-31 23:43:39.227 Z","level":"info","msg":"Server is listening on [::]:8065","caller":"app/server.go:1282","address":":8065"}
^C["timestamp":"2023-05-31 23:44:37.314 Z","level":"info","msg":"Stopping Server...","caller":"app/server.go:968"]
[{"timestamp":"2023-05-31 23:44:37.576 Z","level":"info","msg":"stopping websocket hub connections","caller":"app/web_hub.go:113"}
[{"timestamp":"2023-05-31 23:44:37.658 Z","level":"info","msg":"Stopped workers","caller":"jobs/workers.go:90"}
[{"timestamp":"2023-05-31 23:44:37.659 Z","level":"info","msg":"Stopping schedulers.","caller":"jobs/schedulers.go:118"}
[{"timestamp":"2023-05-31 23:44:37.659 Z","level":"info","msg":"Schedulers stopped.","caller":"jobs/schedulers.go:50"}
[{"timestamp":"2023-05-31 23:44:37.677 Z","level":"info","msg":"Server stopped","caller":"app/server.go:1048"}
[{"timestamp":"2023-05-31 23:44:37.677 Z","level":"info","msg":"Shutting down plugins","caller":"app/plugin.go:339"}
[{"timestamp":"2023-05-31 23:44:39.461 Z","level":"info","msg":"Server Shutdown","caller":"app/plugin_api.go:937","plugin_id":"focalboard"}
-sh-4.2$ cd /etc/systemd/system
-sh-4.2$ sudo touch mattermost.service
-sh-4.2$ ls
basic.target.wants          getty.target.wants      mytimelog.service      system-update.target.wants
dbus-org.freedesktop.nm-dispatcher.service local-fs.target.wants  network-online.target.wants  vmtoolsd.service.requires
default.target               logtime.sh           remote-fs.target.wants
default.target.wants         mattermost.service    sockets.target.wants
dev-virtio\x2dports-org.qemu.guest_agent.0.device.wants multi-user.target.wants sysinit.target.wants
-sh-4.2$ sudo vi mattermost.service
-sh-4.2$ sudo chmod 644 /etc/systemd/system/mattermost.service
-sh-4.2$ sudo systemctl daemon-reload
-sh-4.2$ |

```



11. Set Mattermost service to start on boot.

```
["timestamp": "2023-05-31 23:43:38.840 Z", "level": "info", "msg": "Initialized notification backend", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "name": "notifyMentions"}, {"timestamp": "2023-05-31 23:43:38.881 Z", "level": "info", "msg": "Initialized notification backend", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "name": "notifySubscriptions"}, {"timestamp": "2023-05-31 23:43:38.882 Z", "level": "info", "msg": "Initialized notification backend", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard", "name": "notifyLogger"}, {"timestamp": "2023-05-31 23:43:38.948 Z", "level": "info", "msg": "Server.Start", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard"}, {"timestamp": "2023-05-31 23:43:39.158 Z", "level": "error", "msg": "Mail server connection test is failed", "caller": "app/server.go:1192", "error": "SendEmailNotifications is not true"}, {"timestamp": "2023-05-31 23:43:39.195 Z", "level": "info", "msg": "Starting Server...", "caller": "app/server.go:1209"}, {"timestamp": "2023-05-31 23:43:39.227 Z", "level": "info", "msg": "Server is listening on [::]:8065", "caller": "app/server.go:1282", "address": "[::]:8065"}, {"^C", "timestamp": "2023-05-31 23:44:37.314 Z", "level": "info", "msg": "Stopping Server...", "caller": "app/server.go:968"}, {"timestamp": "2023-05-31 23:44:37.576 Z", "level": "info", "msg": "Stopping websocket hub connections", "caller": "app/web_hub.go:113"}, {"timestamp": "2023-05-31 23:44:37.658 Z", "level": "info", "msg": "Stopped workers", "caller": "jobs/workers.go:90"}, {"timestamp": "2023-05-31 23:44:37.659 Z", "level": "info", "msg": "Stopped schedulers", "caller": "jobs/schedulers.go:118"}, {"timestamp": "2023-05-31 23:44:37.659 Z", "level": "info", "msg": "Schedulers stopped", "caller": "jobs/schedulers.go:50"}, {"timestamp": "2023-05-31 23:44:37.677 Z", "level": "info", "msg": "Server stopped", "caller": "app/server.go:1048"}, {"timestamp": "2023-05-31 23:44:37.677 Z", "level": "info", "msg": "Shutting down plugins", "caller": "app/plugin.go:399"}, {"timestamp": "2023-05-31 23:44:39.461 Z", "level": "info", "msg": "Server Shutdown", "caller": "app/plugin_api.go:937", "plugin_id": "focalboard"}, {"sh-4.2$ cd /etc/systemd/system  
sh-4.2$ sudo touch mattermost.service  
sh-4.2$ ls  
basic.target.wants          getty.target.wants      mytimelog.service    system-update.target.wants  
dbus-org.freedesktop.nm-dispatcher.service local-fs.target.wants network-online.target.wants vmtoolsd.service.requires  
default.target               logtime.sh           remote-fs.target.wants  
default.target.wants         mattermost.service   sockets.target.wants  
dev-virtio\x2dports-org.qemu.guest_agent.0.device.wants multi-user.target.wants sysinit.target.wants  
-sh-4.2$ sudo vi mattermost.service  
-sh-4.2$ sudo chmod 644 /etc/systemd/system/mattermost.service  
-sh-4.2$ sudo systemctl daemon-reload  
-sh-4.2$ sudo systemctl enable mattermost  
Created symlink from /etc/systemd/system/multi-user.target.wants/mattermost.service to /etc/systemd/system/mattermost.service.  
-sh-4.2$  
38°C Sunny 14:06 01-06-2023
```

12. Start the Mattermost server.

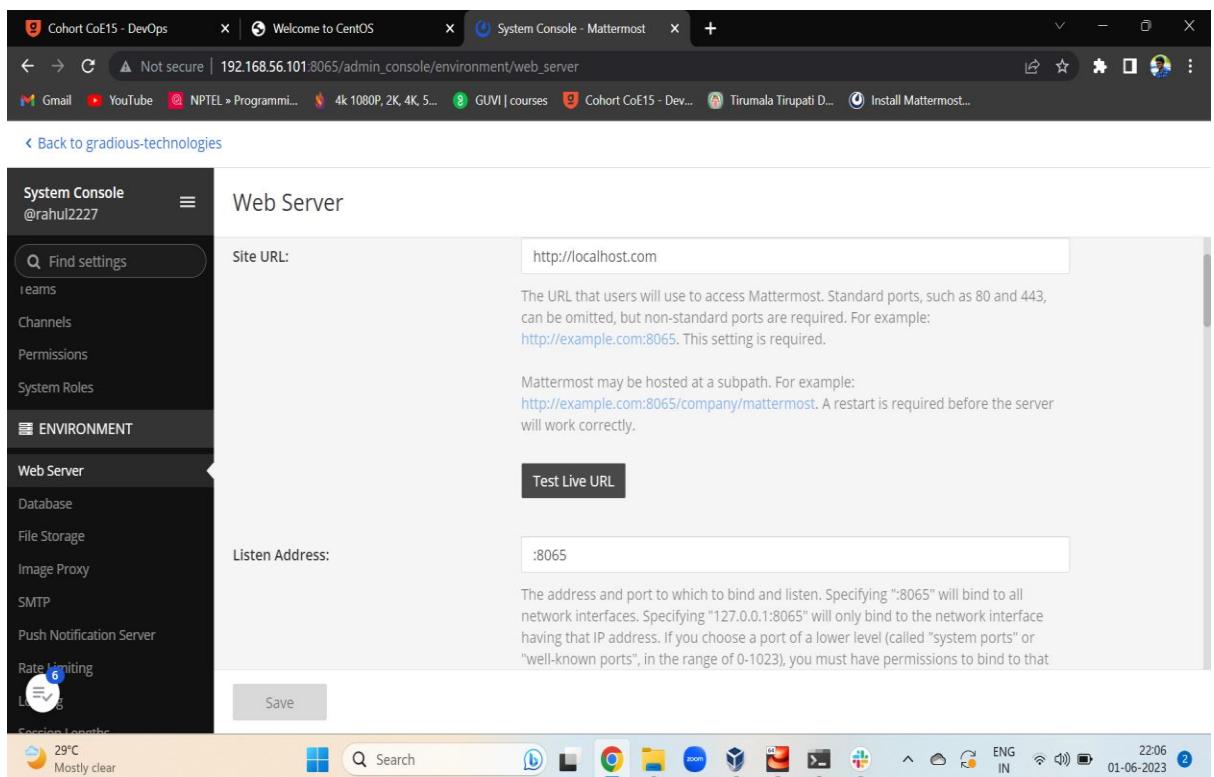
```
basic.target.wants          getty.target.wants      mytimelog.service    system-update.target.wants  
dbus-org.freedesktop.nm-dispatcher.service local-fs.target.wants network-online.target.wants vmtoolsd.service.requires  
default.target               logtime.sh           remote-fs.target.wants  
default.target.wants         mattermost.service   sockets.target.wants  
dev-virtio\x2dports-org.qemu.guest_agent.0.device.wants multi-user.target.wants sysinit.target.wants  
-sh-4.2$ sudo vi mattermost.service  
-sh-4.2$ sudo chmod 644 /etc/systemd/system/mattermost.service  
-sh-4.2$ sudo systemctl daemon-reload  
-sh-4.2$ sudo systemctl enable mattermost  
Created symlink from /etc/systemd/system/multi-user.target.wants/mattermost.service to /etc/systemd/system/mattermost.service.  
-sh-4.2$ sudo systemctl start mattermost
```

13 . Verify that Mattermost is running.

```
basic.target.wants          getty.target.wants      mytimelog.service    system-update.target.wants  
dbus-org.freedesktop.nm-dispatcher.service local-fs.target.wants network-online.target.wants vmtoolsd.service.requires  
default.target               logtime.sh           remote-fs.target.wants  
default.target.wants         mattermost.service   sockets.target.wants  
dev-virtio\x2dports-org.qemu.guest_agent.0.device.wants multi-user.target.wants sysinit.target.wants  
-sh-4.2$ sudo vi mattermost.service  
-sh-4.2$ sudo chmod 644 /etc/systemd/system/mattermost.service  
-sh-4.2$ sudo systemctl daemon-reload  
-sh-4.2$ sudo systemctl enable mattermost  
Created symlink from /etc/systemd/system/multi-user.target.wants/mattermost.service to /etc/systemd/system/mattermost.service.  
-sh-4.2$ sudo systemctl start mattermost  
-sh-4.2$ curl http://localhost:8065  
<!doctype html><html lang="en"><head><meta charset="utf-8"><meta name="viewport" content="width=device-width,initial-scale=1,maximum-scale=1,use-r-scalable=0"><meta name="robots" content="noindex, nofollow"><meta name="referrer" content="no-referrer"><title>Mattermost</title><meta name="mobile-web-app-capable" content="yes"><meta name="application-name" content="Mattermost"><meta name="format-detection" content="telephone=no"><link rel="icon" type="image/png" href="/static/images/favicon/favicon-default-16x16.png" sizes="16x16"><link rel="icon" type="image/png" href="/static/images/favicon/favicon-default-32x32.png" sizes="32x32"><link rel="icon" type="image/png" href="/static/images/favicon/favicon-default-64x64.png" sizes="64x64"><link rel="icon" type="image/png" href="/static/images/favicon/favicon-default-96x96.png" sizes="96x96"><link rel="stylesheet" class="code_theme"><style>.error-screener{font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;padding-top: 50px;max-width: 750px;font-size: 14px;color: #333;margin:auto;display:none;line-height: 1.5}.error-screen h2{font-size: 30px;font-weight: 400;line-height: 1.2}.error-screen ul{padding-left: 15px;line-height: 1.7; margin-top: 0; margin-bottom: 10px}.error-screen hr{color: #ddd;margin-top: 20px; margin-bottom: 20px; border: 0; border-top: 1px solid #eee}.error-screen-visible{display: block}</style><meta http-equiv="Content-Security-Policy" content="script-src 'self' cdn.rudderlabs.com/ js.stripe.com/v3"><script defer="defer" src="/static/main.54a384511ae531961ca5.js"></script><link href="/static/main.d4d4665a633f175eb096.css" rel="stylesheet"><meta name="apple-mobile-web-app-title" content="Mattermost"/><meta name="apple-mobile-web-app-capable" content="yes"/><meta name="apple-mobile-web-app-status-bar-style" content="default"/><link rel="apple-touch-icon" sizes="76x76" href="/static/icon_76x76.png"/><link rel="apple-touch-icon" sizes="72x72" href="/static/icon_72x72.png"/><link rel="apple-touch-icon" sizes="60x60" href="/static/icon_60x60.png"/><link rel="apple-touch-icon" sizes="57x57" href="/static/icon_57x57.png"/><link rel="apple-touch-icon" sizes="152x152" href="/static/icon_152x152.png"/><link rel="apple-touch-icon" sizes="144x144" href="/static/icon_144x144.png"/><link rel="apple-touch-icon" sizes="120x120" href="/static/icon_120x120.png"/><link rel="manifest" href="/static/manifest.json"/></head><body class="font--open_sans enable-animations"><div id="root"><div class="error-screen"><h2>Cannot connect to Mattermost</h2><hr/><p>We're having trouble connecting to Mattermost. If refreshing this page (Ctrl+R or Command+R) does not work, please verify that your computer is connected to the internet.</p><br/><div class="loading-screen" style="position: relative"><div class="loading-content"><div class="round round-1"></div><div class="round round-2"></div><div class="round round-3"></div></div></div></div><div id="root-portal"></div><noscript>To use Mattermost, please enable JavaScript.</noscript></body></html></div>
```

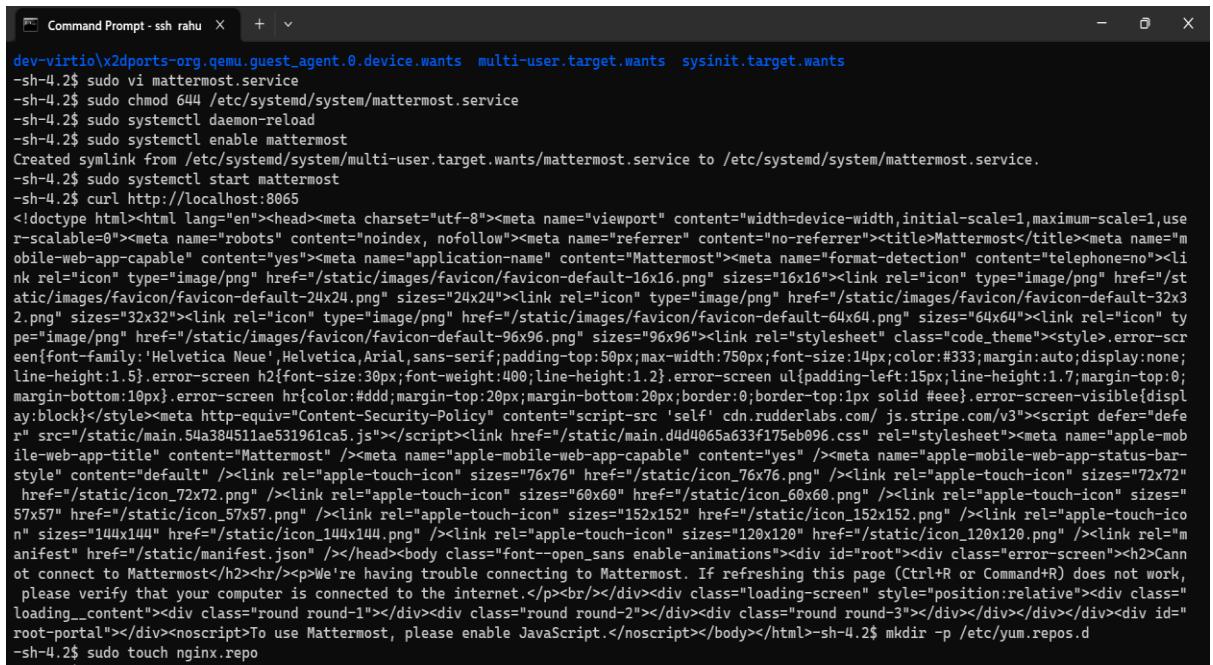
Configure Mattermost server

1. Open a browser and navigate to your Mattermost instance.
Forexamplehttp://192.168.56.101:8065
2. Create the first team and user. The first user in the system has the system_admin role, which gives you access to the System Console.
3. To open the System Console, select the Product menu in the top-left corner of the navigation panel, then select System Console.
4. Set the site URL:
 - 4.1open System Console> Environment> WebServer
 - 4.2 In the Site URL field, set the URL that users point their browsers at.



Installing NGINX Server

1. Create the file /etc/yum.repos.d/nginx.repo.

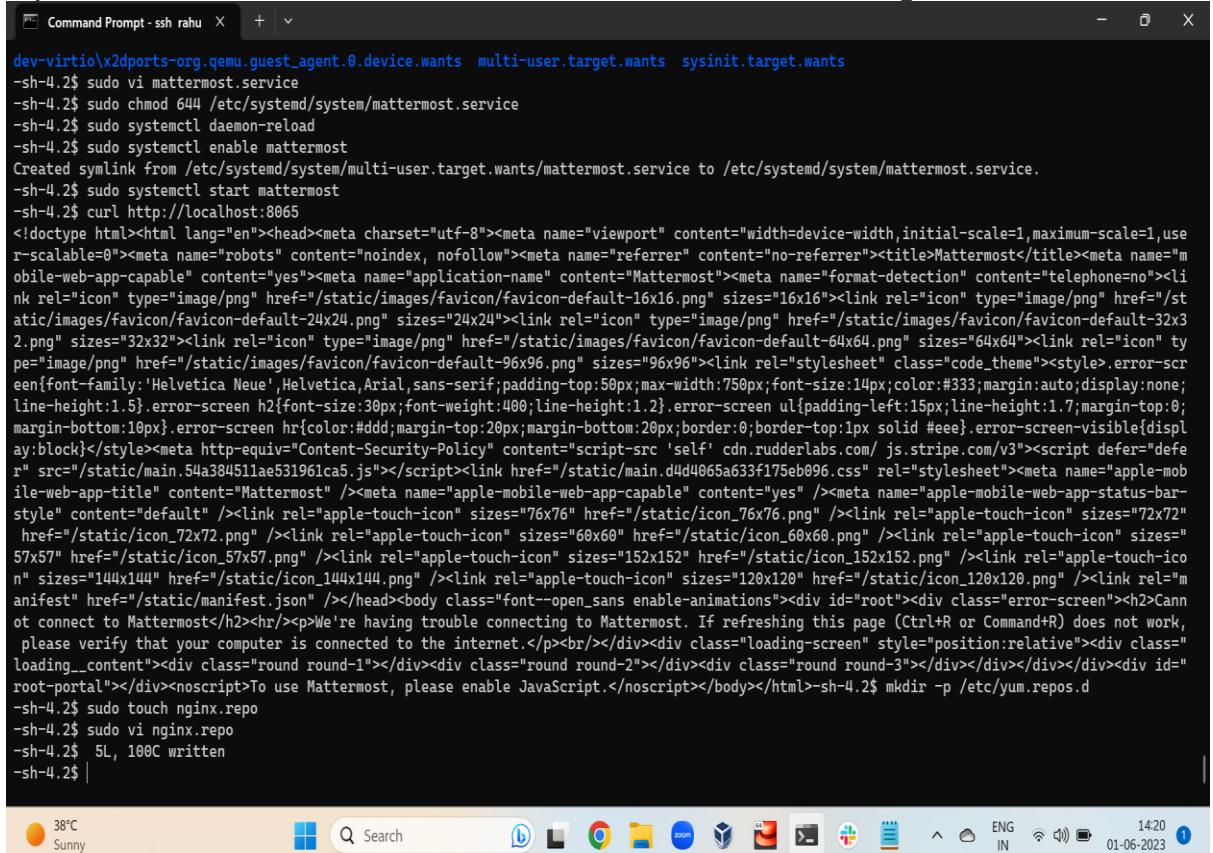


```

dev-virtio\x2dports-org.qemu.guest_agent.0.device.wants multi-user.target.wants sysinit.target.wants
-sh-4.2$ sudo vi mattermost.service
-sh-4.2$ sudo chmod 644 /etc/systemd/system/mattermost.service
-sh-4.2$ sudo systemctl daemon-reload
-sh-4.2$ sudo systemctl enable mattermost
Created symlink from /etc/systemd/system/multi-user.target.wants/mattermost.service to /etc/systemd/system/mattermost.service.
-sh-4.2$ sudo systemctl start mattermost
-sh-4.2$ curl http://localhost:8065
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-sh-4.2$ sudo touch nginx.repo

```

2. Open the file as root in a text editor and add the following contents



```

dev-virtio\x2dports-org.qemu.guest_agent.0.device.wants multi-user.target.wants sysinit.target.wants
-sh-4.2$ sudo vi mattermost.service
-sh-4.2$ sudo chmod 644 /etc/systemd/system/mattermost.service
-sh-4.2$ sudo systemctl daemon-reload
-sh-4.2$ sudo systemctl enable mattermost
Created symlink from /etc/systemd/system/multi-user.target.wants/mattermost.service to /etc/systemd/system/mattermost.service.
-sh-4.2$ sudo systemctl start mattermost
-sh-4.2$ curl http://localhost:8065
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-sh-4.2$ sudo touch nginx.repo
-sh-4.2$ 5L, 100C written
-sh-4.2$ |

```

3. Install NGINX


```
Command Prompt - ssh rahu + X - O X

-sh-4.2$ sudo yum install nginx.x86_64
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
epel/x86_64/metalink | 5.1 kB  00:00
* base: bd.mirror.vanehost.com
* epel: epel.excellmedia.net
* extras: bd.mirror.vanehost.com
* updates: mirror-hk.koddos.net
base | 3.6 kB  00:00
epel | 4.7 kB  00:00
extras | 2.9 kB  00:00
mysql-connectors-community | 2.6 kB  00:00
mysql-tools-community | 2.6 kB  00:00
mysql80-community | 2.6 kB  00:00
updates | 2.9 kB  00:00
(1/3): epel/x86_64/updateinfo | 1.0 MB  00:04
(2/3): epel/x86_64/primary_db | 7.0 MB  00:46
(3/3): updates/7/x86_64/primary_db | 21 MB  01:42
Resolving Dependencies
--> Running transaction check
--> Package nginx.x86_64 1:1.20.1-10.el7 will be installed
--> Processing Dependency: nginx-filesystem = 1:1.20.1-10.el7 for package: 1:nginx-1.20.1-10.el7.x86_64
--> Processing Dependency: libcrypto.so.1.1(OPENSSL_1_1_0)(64bit) for package: 1:nginx-1.20.1-10.el7.x86_64
--> Processing Dependency: libssl.so.1.1(OPENSSL_1_1_0)(64bit) for package: 1:nginx-1.20.1-10.el7.x86_64
--> Processing Dependency: libssl.so.1.1(OPENSSL_1_1_1)(64bit) for package: 1:nginx-1.20.1-10.el7.x86_64
--> Processing Dependency: nginx-filesystem for package: 1:nginx-1.20.1-10.el7.x86_64
--> Processing Dependency: redhat-indexhtml for package: 1:nginx-1.20.1-10.el7.x86_64
--> Processing Dependency: libcrypto.so.1.1()(64bit) for package: 1:nginx-1.20.1-10.el7.x86_64
--> Processing Dependency: libprofiler.so.0()(64bit) for package: 1:nginx-1.20.1-10.el7.x86_64
--> Processing Dependency: libssl.so.1.1()(64bit) for package: 1:nginx-1.20.1-10.el7.x86_64
--> Running transaction check
--> Package centos-indexhtml.noarch 0:7-9.el7.centos will be installed
--> Package gperftools-libs.x86_64 0:2.6.1-1.el7 will be installed
--> Package nginx-filesystem.noarch 1:1.20.1-10.el7 will be installed

38°C Sunny Search b Google Chrome File Zoom Video Mail Calendar ENG IN 14:25 01-06-2023
```

4. Start NGINX.nginx is the service name

```
Command Prompt - ssh rahu + X - O X

(3/5): nginx-filesystem-1.20.1-10.el7.noarch.rpm | 24 kB  00:02
(4/5): nginx-1.20.1-10.el7.x86_64.rpm | 588 kB  00:14
(5/5): openssl111-libs-1.1.1k-5.el7.x86_64.rpm | 1.5 MB  00:00:38
-----| 47 kB/s | 2.4 MB  00:00:53

Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : 1:openssl111-libs-1.1.1k-5.el7.x86_64 1/5
  Installing : 1:nginx-filesystem-1.20.1-10.el7.noarch 2/5
  Installing : centos-indexhtml-7-9.el7.centos.noarch 3/5
  Installing : gperftools-libs-2.6.1-1.el7.x86_64 4/5
  Installing : 1:nginx-1.20.1-10.el7.x86_64 5/5
  Verifying  : gperftools-libs-2.6.1-1.el7.x86_64 1/5
  Verifying  : centos-indexhtml-7-9.el7.centos.noarch 2/5
  Verifying  : 1:nginx-filesystem-1.20.1-10.el7.noarch 3/5
  Verifying  : 1:nginx-1.20.1-10.el7.x86_64 4/5
  Verifying  : 1:openssl111-libs-1.1.1k-5.el7.x86_64 5/5

Installed:
  nginx.x86_64 1:1.20.1-10.el7

Dependency Installed:
  centos-indexhtml.noarch 0:7-9.el7.centos           gperftools-libs.x86_64 0:2.6.1-1.el7           nginx-filesystem.noarch 1:1.20.1-10.el7
  openssl111-libs.x86_64 1:1.1.1k-5.el7

Complete!
-sh-4.2$ sudo systemctl start NGINX.nginx
Failed to start NGINX.nginx.service: Unit not found.
-sh-4.2$ sudo systemctl start nginx.x86_64
Failed to start nginx.x86_64.service: Unit not found.
-sh-4.2$ sudo systemctl start nginx
-sh-4.2$ |
```

5. Set NGINX to start at system boot.

```

centos-indexhtml.noarch 0:7-9.el7.centos      gperftools-libs.x86_64 0:2.6.1-1.el7      nginx-filesystem.noarch 1:1.20.1-10.el7
openssl11-libs.x86_64 1:1.1.1k-5.el7

Complete!
-sh-4.2$ sudo systemctl start NGINX.nginx
Failed to start NGINX.nginx.service: Unit not found.
-sh-4.2$ sudo systemctl start nginx.x86_64
Failed to start nginx.x86_64.service: Unit not found.
-sh-4.2$ sudo systemctl start nginx
-sh-4.2$ sudo systemctl enable nginx
Created symlink from /etc/systemd/system/multi-user.target.wants/nginx.service to /usr/lib/systemd/system/nginx.service.

```

6. Verify that NGINX is running.

```

-sh-4.2$ sudo systemctl status nginx
● nginx.service - The nginx HTTP and reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; vendor preset: disabled)
     Active: active (running) since Thu 2023-06-01 00:38:14 UTC; 20min ago
       Process: 8929 ExecReload=/usr/sbin/nginx -s reload (code=exited, status=0/SUCCESS)
      Main PID: 8746 (nginx)
         CGroup: /system.slice/nginx.service
             ├─8746 nginx: master process /usr/sbin/nginx
             └─8938 nginx: worker process

Jun 01 00:38:13 localhost.localdomain systemd[1]: Starting The nginx HTTP and reverse proxy server...
Jun 01 00:38:14 localhost.localdomain nginx[8741]: nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
Jun 01 00:38:14 localhost.localdomain nginx[8741]: nginx: configuration file /etc/nginx/nginx.conf test is successful
Jun 01 00:38:14 localhost.localdomain systemd[1]: Started The nginx HTTP and reverse proxy server.
Jun 01 00:53:23 localhost.localdomain systemd[1]: Reloading The nginx HTTP and reverse proxy server.
Jun 01 00:53:23 localhost.localdomain systemd[1]: Reloaded The nginx HTTP and reverse proxy server.

```

Configure NGINX as a proxy for Mattermost server

1. Create a configuration file for Mattermost.

(/etc/nginx/conf.d/mattermost) and copy the below content.

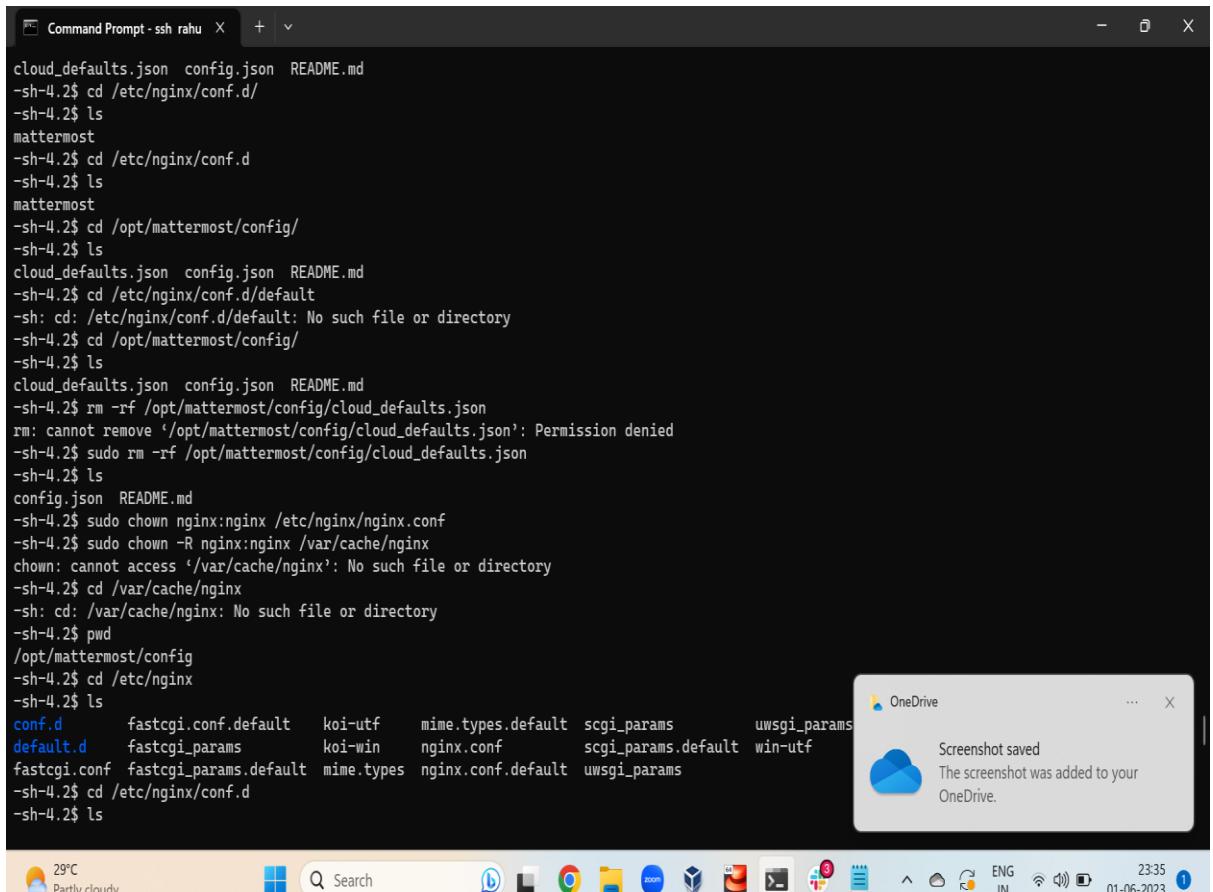
```

-sh-4.2$ sudo systemctl status nginx
● nginx.service - The nginx HTTP and reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; vendor preset: disabled)
     Active: active (running) since Thu 2023-06-01 00:38:14 UTC; 20min ago
       Process: 8929 ExecReload=/usr/sbin/nginx -s reload (code=exited, status=0/SUCCESS)
      Main PID: 8746 (nginx)
         CGroup: /system.slice/nginx.service
             ├─8746 nginx: master process /usr/sbin/nginx
             └─8938 nginx: worker process

Jun 01 00:38:13 localhost.localdomain systemd[1]: Starting The nginx HTTP and reverse proxy server...
Jun 01 00:38:14 localhost.localdomain nginx[8741]: nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
Jun 01 00:38:14 localhost.localdomain nginx[8741]: nginx: configuration file /etc/nginx/nginx.conf test is successful
Jun 01 00:38:14 localhost.localdomain systemd[1]: Started The nginx HTTP and reverse proxy server.
Jun 01 00:53:23 localhost.localdomain systemd[1]: Reloading The nginx HTTP and reverse proxy server.
Jun 01 00:53:23 localhost.localdomain systemd[1]: Reloaded The nginx HTTP and reverse proxy server.

```

2. Remove the existing default config file (/etc/nginx/conf.d/default).

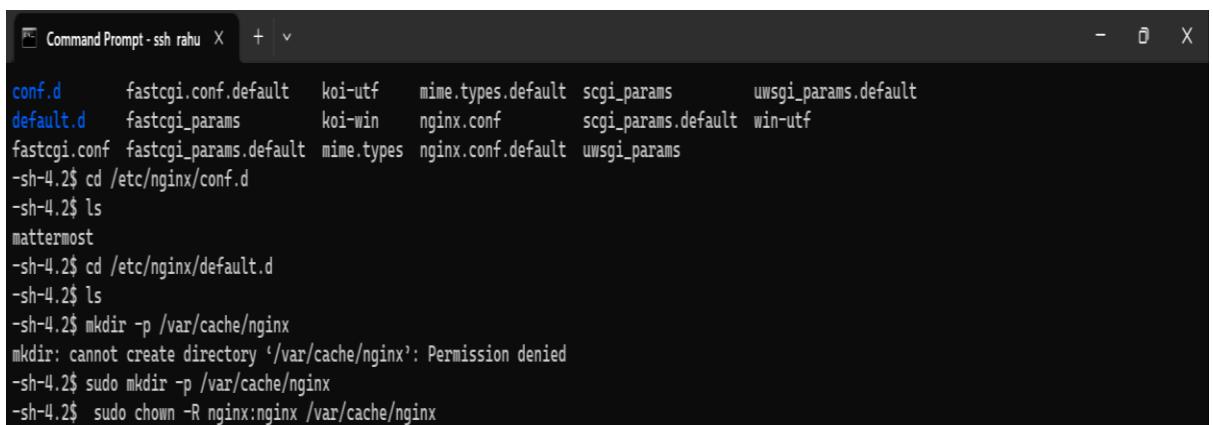


Cloud defaults configuration setup:

```

cloud_defaults.json config.json README.md
-sh-4.2$ cd /etc/nginx/conf.d/
-sh-4.2$ ls
mattermost
-sh-4.2$ cd /etc/nginx/conf.d
-sh-4.2$ ls
mattermost
-sh-4.2$ cd /opt/mattermost/config/
-sh-4.2$ ls
cloud_defaults.json config.json README.md
-sh-4.2$ cd /etc/nginx/conf.d/default
-sh: cd: /etc/nginx/conf.d/default: No such file or directory
-sh-4.2$ cd /opt/mattermost/config/
-sh-4.2$ ls
cloud_defaults.json config.json README.md
-sh-4.2$ rm -rf /opt/mattermost/config/cloud_defaults.json
rm: cannot remove '/opt/mattermost/config/cloud_defaults.json': Permission denied
-sh-4.2$ sudo rm -rf /opt/mattermost/config/cloud_defaults.json
-sh-4.2$ ls
config.json README.md
-sh-4.2$ sudo chown nginx:nginx /etc/nginx/nginx.conf
-sh-4.2$ sudo chown -R nginx:nginx /var/cache/nginx
chown: cannot access '/var/cache/nginx': No such file or directory
-sh-4.2$ cd /var/cache/nginx
-sh: cd: /var/cache/nginx: No such file or directory
-sh-4.2$ pwd
/opt/mattermost/config
-sh-4.2$ cd /etc/nginx
-sh-4.2$ ls
conf.d      fastcgi.conf.default    koi-utf      mime.types.default  scgi_params      uwsgi_params
default.d   fastcgi_params         koi-win     nginx.conf        scgi_params.default  win-utf
fastcgi.conf fastcgi_params.default mime.types  nginx.conf.default uwsgi_params
-sh-4.2$ cd /etc/nginx/conf.d
-sh-4.2$ ls
mattermost
-sh-4.2$ cd /etc/nginx/default.d
-sh-4.2$ ls
-sh-4.2$ mkdir -p /var/cache/nginx
mkdir: cannot create directory '/var/cache/nginx': Permission denied
-sh-4.2$ sudo mkdir -p /var/cache/nginx
-sh-4.2$ sudo chown -R nginx:nginx /var/cache/nginx

```



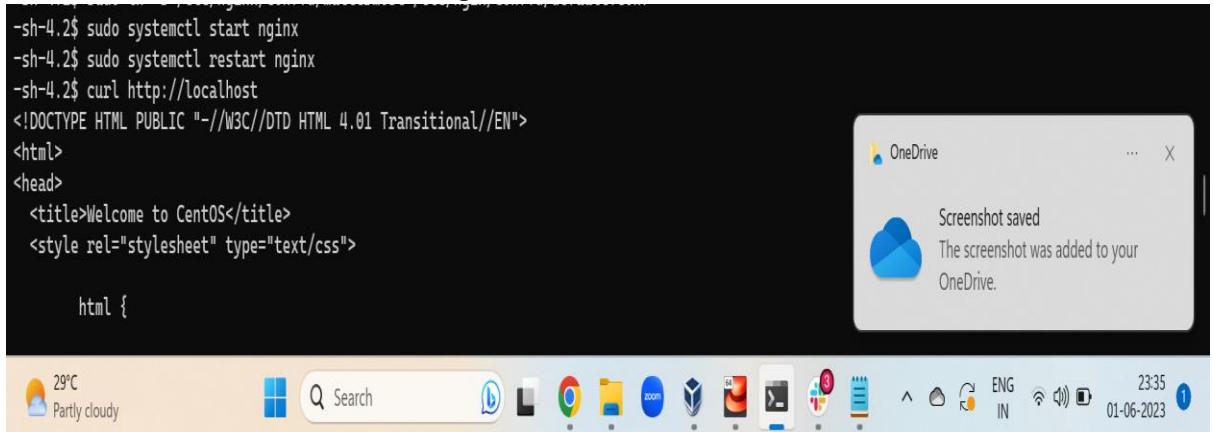
Default configuration setup:

```

conf.d      fastcgi.conf.default    koi-utf      mime.types.default  scgi_params      uwsgi_params.default
default.d   fastcgi_params         koi-win     nginx.conf        scgi_params.default  win-utf
fastcgi.conf fastcgi_params.default mime.types  nginx.conf.default uwsgi_params
-sh-4.2$ cd /etc/nginx/conf.d
-sh-4.2$ ls
mattermost
-sh-4.2$ cd /etc/nginx/default.d
-sh-4.2$ ls
-sh-4.2$ mkdir -p /var/cache/nginx
mkdir: cannot create directory '/var/cache/nginx': Permission denied
-sh-4.2$ sudo mkdir -p /var/cache/nginx
-sh-4.2$ sudo chown -R nginx:nginx /var/cache/nginx

```

3. Enable the mattermost configuration.



Starting and enabling Nginx service:

```

-sh-4.2$ sudo systemctl start nginx
-sh-4.2$ sudo systemctl restart nginx
-sh-4.2$ curl http://localhost
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<title>Welcome to CentOS</title>
<style rel="stylesheet" type="text/css">

```

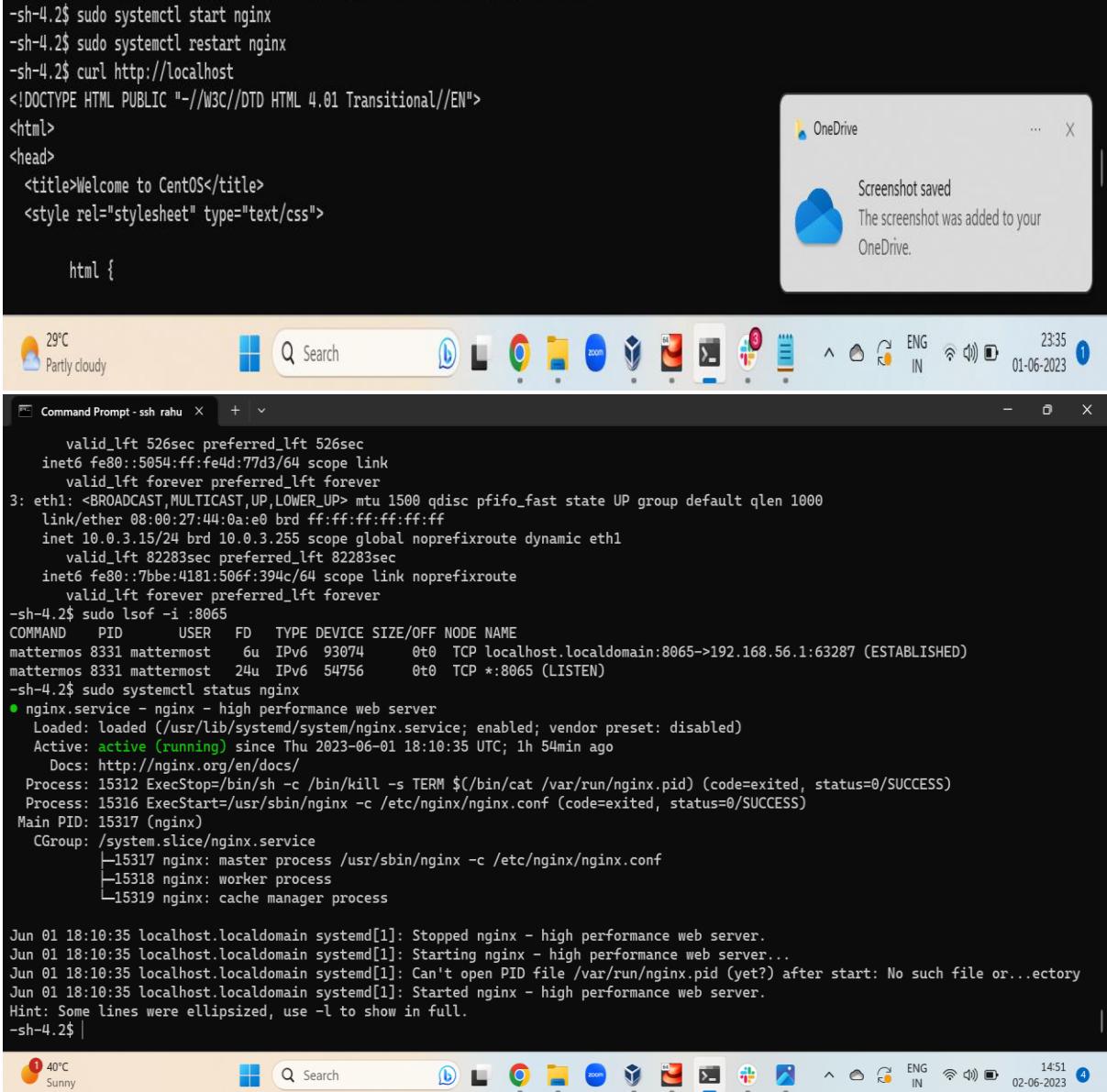
Custom CSS styles:

```

html {

```


4. Restart NGINX and Verify that you can see Mattermost through the proxy.



```
-sh-4.2$ sudo systemctl start nginx
-sh-4.2$ sudo systemctl restart nginx
-sh-4.2$ curl http://localhost
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<title>Welcome to CentOS</title>
<style rel="stylesheet" type="text/css">

    html {
```

OneDrive
Screenshot saved
The screenshot was added to your OneDrive.

```
29°C Partly cloudy Search b G M S Z Y F T 23:35 01-06-2023 1
```

```
Command Prompt - ssh rahu × + ~
valid_lft 526sec preferred_lft 526sec
inet6 fe80::5054:ff:fe4d:77d3/64 scope link
    valid_lft forever preferred_lft forever
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:44:0a:e0 brd ff:ff:ff:ff:ff:ff
    inet 10.0.3.15/24 brd 10.0.3.255 scope global noprefixroute dynamic eth1
        valid_lft 82283sec preferred_lft 82283sec
        inet6 fe80::7bbe:4181:506f:394c/64 scope link noprefixroute
            valid_lft forever preferred_lft forever
-sh-4.2$ sudo lsof -i :8065
COMMAND   PID   USER   FD   TYPE DEVICE SIZE/OFF NODE NAME
mattermost 8331 mattermost    6u  IPv6  93074      0t0  TCP localhost.localdomain:8065->192.168.56.1:63287 (ESTABLISHED)
mattermost 8331 mattermost    24u  IPv6  54756      0t0  TCP *:8065 (LISTEN)
-sh-4.2$ sudo systemctl status nginx
● nginx.service - nginx - high performance web server
  Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; vendor preset: disabled)
  Active: active (running) since Thu 2023-06-01 18:10:35 UTC; 1h 54min ago
    Docs: http://nginx.org/en/docs/
  Process: 15312 ExecStop=/bin/sh -c /bin/kill -s TERM $(/bin/cat /var/run/nginx.pid) (code=exited, status=0/SUCCESS)
  Process: 15316 ExecStart=/usr/sbin/nginx -c /etc/nginx/nginx.conf (code=exited, status=0/SUCCESS)
 Main PID: 15317 (nginx)
   CGroup: /system.slice/nginx.service
           ├─15317 nginx: master process /usr/sbin/nginx -c /etc/nginx/nginx.conf
           ├─15318 nginx: worker process
           └─15319 nginx: cache manager process

Jun 01 18:10:35 localhost.localdomain systemd[1]: Stopped nginx - high performance web server.
Jun 01 18:10:35 localhost.localdomain systemd[1]: Starting nginx - high performance web server...
Jun 01 18:10:35 localhost.localdomain systemd[1]: Can't open PID file /var/run/nginx.pid (yet?) after start: No such file or directory.
Jun 01 18:10:35 localhost.localdomain systemd[1]: Started nginx - high performance web server.
Hint: Some lines were ellipsized, use -l to show in full.
-sh-4.2$ |
```

40°C Sunny Search b G M S Z Y F T 14:51 02-06-2023 4

```
Command Prompt - ssh rahu + - X
Process: 15316 ExecStart=/usr/sbin/nginx -c /etc/nginx/nginx.conf (code=exited, status=0/SUCCESS)
Main PID: 15317 (nginx)
CGroup: /system.slice/nginx.service
    ├─15317 nginx: master process /usr/sbin/nginx -c /etc/nginx/nginx.conf
    ├─15318 nginx: worker process
    └─15319 nginx: cache manager process

Jun 01 18:10:35 localhost.localdomain systemd[1]: Stopped nginx - high performance web server.
Jun 01 18:10:35 localhost.localdomain systemd[1]: Starting nginx - high performance web server...
Jun 01 18:10:35 localhost.localdomain systemd[1]: Can't open PID file /var/run/nginx.pid (yet?) after start: No such file or directory.
Jun 01 18:10:35 localhost.localdomain systemd[1]: Started nginx - high performance web server.
Hint: Some lines were ellipsized, use -l to show in full.
-sh-4.2$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
        inet 127.0.0.1/8 scope host lo
            valid_lft forever preferred_lft forever
        inet6 ::1/128 scope host
            valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 52:54:00:4d:77:d3 brd ff:ff:ff:ff:ff:ff
        inet 192.168.56.101/24 brd 192.168.56.255 scope global noprefixroute dynamic eth0
            valid_lft 498sec preferred_lft 498sec
        inet6 fe80::5054:ff:fe4d:77d3/64 scope link
            valid_lft forever preferred_lft forever
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:44:0a:e0 brd ff:ff:ff:ff:ff:ff
        inet 10.0.3.15/24 brd 10.0.3.255 scope global noprefixroute dynamic eth1
            valid_lft 76411sec preferred_lft 76411sec
        inet6 fe80::7bbe:4181:506f:394c/64 scope link noprefixroute
            valid_lft forever preferred_lft forever
-sh-4.2$ |

```

The screenshot shows a Linux desktop environment with a terminal window open in the background. The terminal displays system logs related to the nginx service starting and stopping. In the foreground, there is a Microsoft Teams workspace titled "Town Square". The workspace has a dark theme and includes a sidebar with channels like "gradious technol...", "Off-Topic", and "Town Square". The main area shows a message from the "System" account stating "You joined the team." and a text input field "Write to Town Square". The desktop taskbar at the bottom shows various application icons and system status indicators.