

IMPLEMENTATION DESCRIPTION

Access the Rstudio-Server:

By default RStudio Server runs on port 8787, navigate to a web browser to the following address to access the server. localhost:8787

RStudio will prompt for a username and password, give host's username and password to access it.

Preparing a dataset sample:

Real estate transactions: The Sacramento real estate transactions file is a list of 985 real estate transactions in the Sacramento area reported over a five-day period, as reported by the Sacramento Bee.

Load the sample in RStudio Server:

Upload 'Sacramentorealestatetransactions.csv' to RStudio Server.

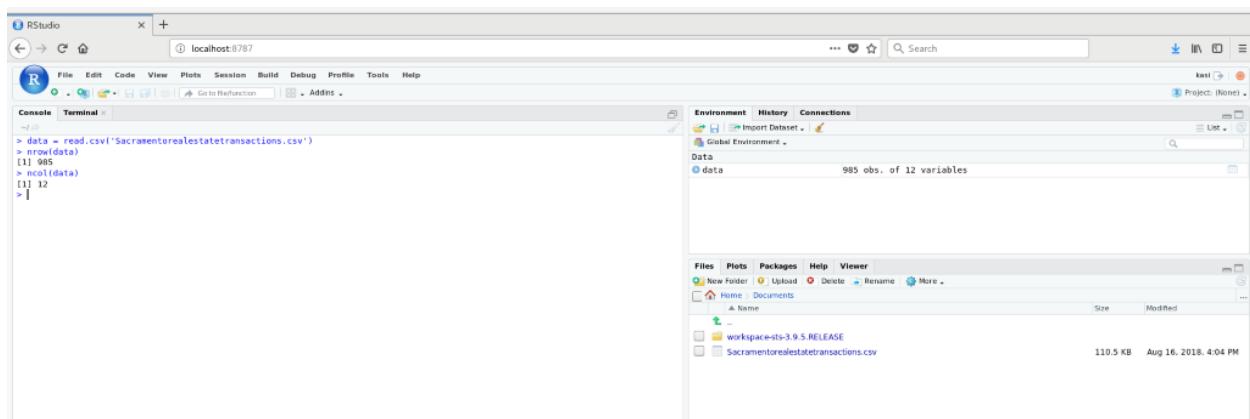
Create a Data Frame:

```
data = read.csv('Sacramentorealestatetransactions.csv')
```

Print the number of rows and columns:

```
nrow(data)
```

```
ncol(data)
```



Running in Docker

Step 1: pull the docker

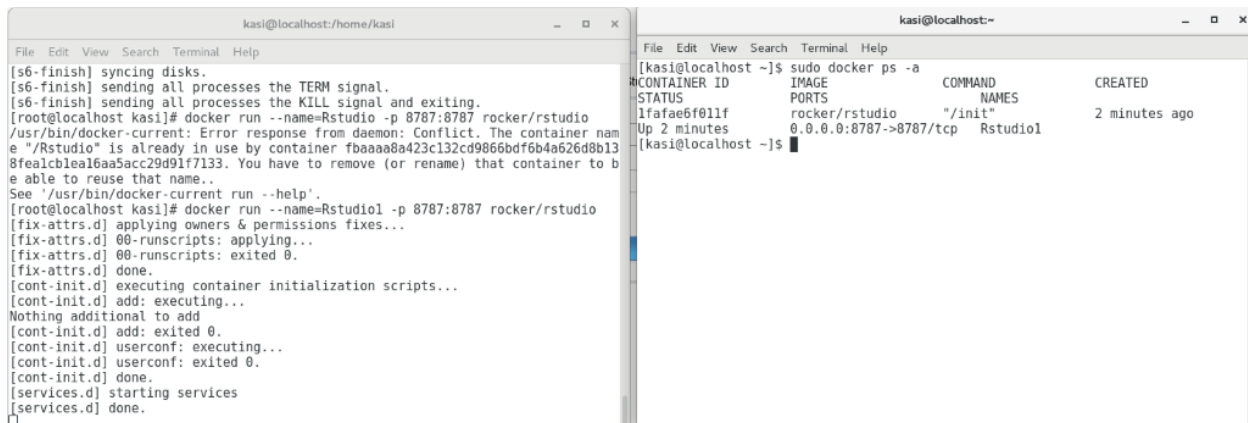
docker pull rocker/rstudio

Step 2: Run the Docker Container

docker run --name=Rstudio -p 8787:8787 rocker/rstudio

Step 3: Check Docker Container Status

docker ps -a



```
kasi@localhost:~/home/kasi
[s6-finish] syncing disks.
[s6-finish] sending all processes the TERM signal.
[s6-finish] sending all processes the KILL signal and exiting.
[root@localhost kasi]# docker run --name=Rstudio -p 8787:8787 rocker/rstudio
/usr/bin/docker-current: Error response from daemon: Conflict. The container name
"/Rstudio" is already in use by container fb0aaa8a423c132cd9866bdf6b4a626d8b13
8fealcbleal6aa5acc29d91f7133. You have to remove (or rename) that container to b
e able to reuse that name..
See '/usr/bin/docker-current run --help'.
[root@localhost kasi]# docker run --name=Rstudio1 -p 8787:8787 rocker/rstudio
[fix-attrs.d] applying owners & permissions fixes...
[fix-attrs.d] 00-runscripsts: applying...
[fix-attrs.d] 00-runscripsts: exited 0.
[fix-attrs.d] done.
[cont-init.d] executing container initialization scripts...
[cont-init.d] add: executing...
Nothing additional to add
[cont-init.d] add: exited 0.
[cont-init.d] userconf: executing...
[cont-init.d] userconf: exited 0.
[cont-init.d] done.
[services.d] starting services
[services.d] done.
[]

kasi@localhost:~$ sudo docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED
STATUS            PORTS              NAMES
1fafae6f011f       rocker/rstudio     "/init"            2 minutes ago
Up 2 minutes
0.0.0.0:8787->8787/tcp   Rstudio1
[kasi@localhost ~]$
```

Step 4: Access RStudio Server

Navigate to a web browser to the following address to access the server. localhost:8787

RStudio will prompt for a username and password, give username as 'rstudio' and password as 'rstudio' to access it.

Prepare and Load the data Set sample, create a data frame and print number of rows and columns:

Upload 'Sacramentorealestatetransactions.csv' to RStudio Server.

```
data = read.csv('Sacramentorealestatetransactions.csv')
```

```
nrow(data)
```

```
ncol(data)
```

