

MIMIC in R server

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Objective/ Overview

- Access guide to R-server for participants **who favor R over Python**.
- This is **not a compulsory** if you are not a former R user.
- The following slides will guide you through **how you can make queries MIMIC data from GCP in R** and demonstrate part of work done using Python previously.



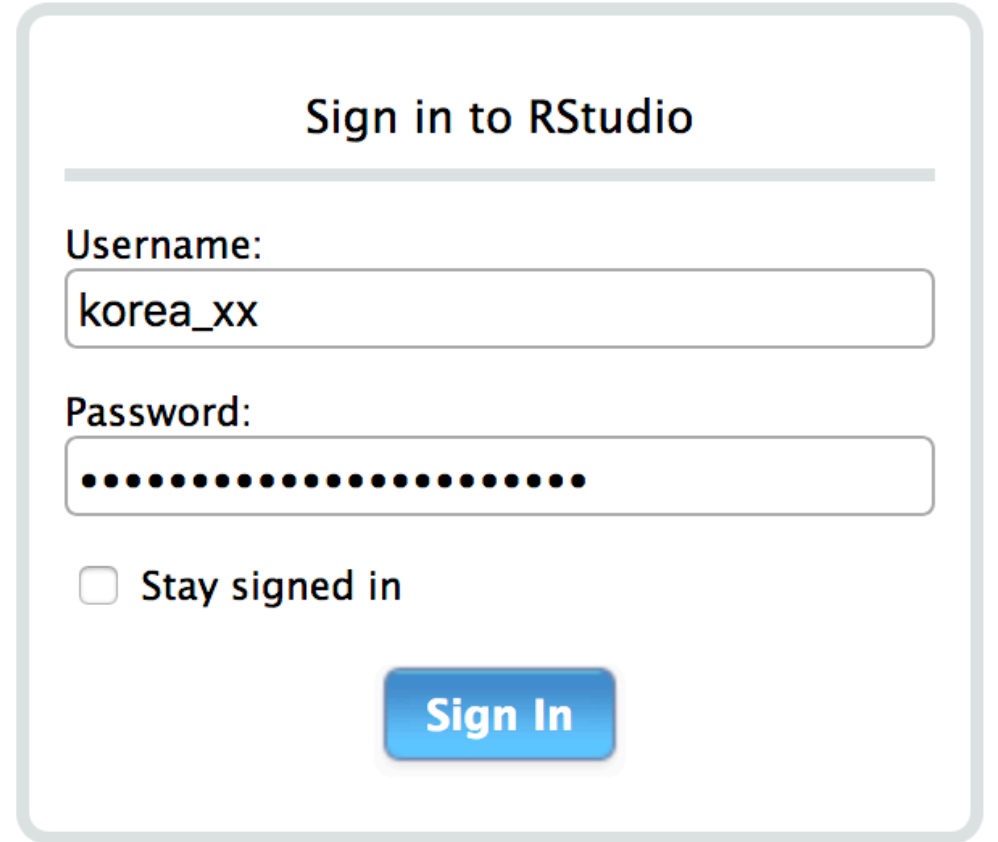
Prerequisites

- Have already completed the **presentation slides on GCP setup**.
- **Able to query** MICMICiii_demo from GCP Bigquery.
- **UserID** and **Password** for GCP VM is provided to you.



step1

1. You will be given an account and password on the day of event.
2. The link to VM is <http://35.190.226.215:8787/>.
3. Key in your ID and Password and sign in

A screenshot of a web form titled "Sign in to RStudio". The form is enclosed in a light gray rounded rectangle. It contains two input fields: "Username:" with the text "korea_xx" and "Password:" with a series of dots. Below the password field is a checkbox labeled "Stay signed in". At the bottom right is a blue button with the text "Sign In".

Sign in to RStudio

Username:
korea_xx

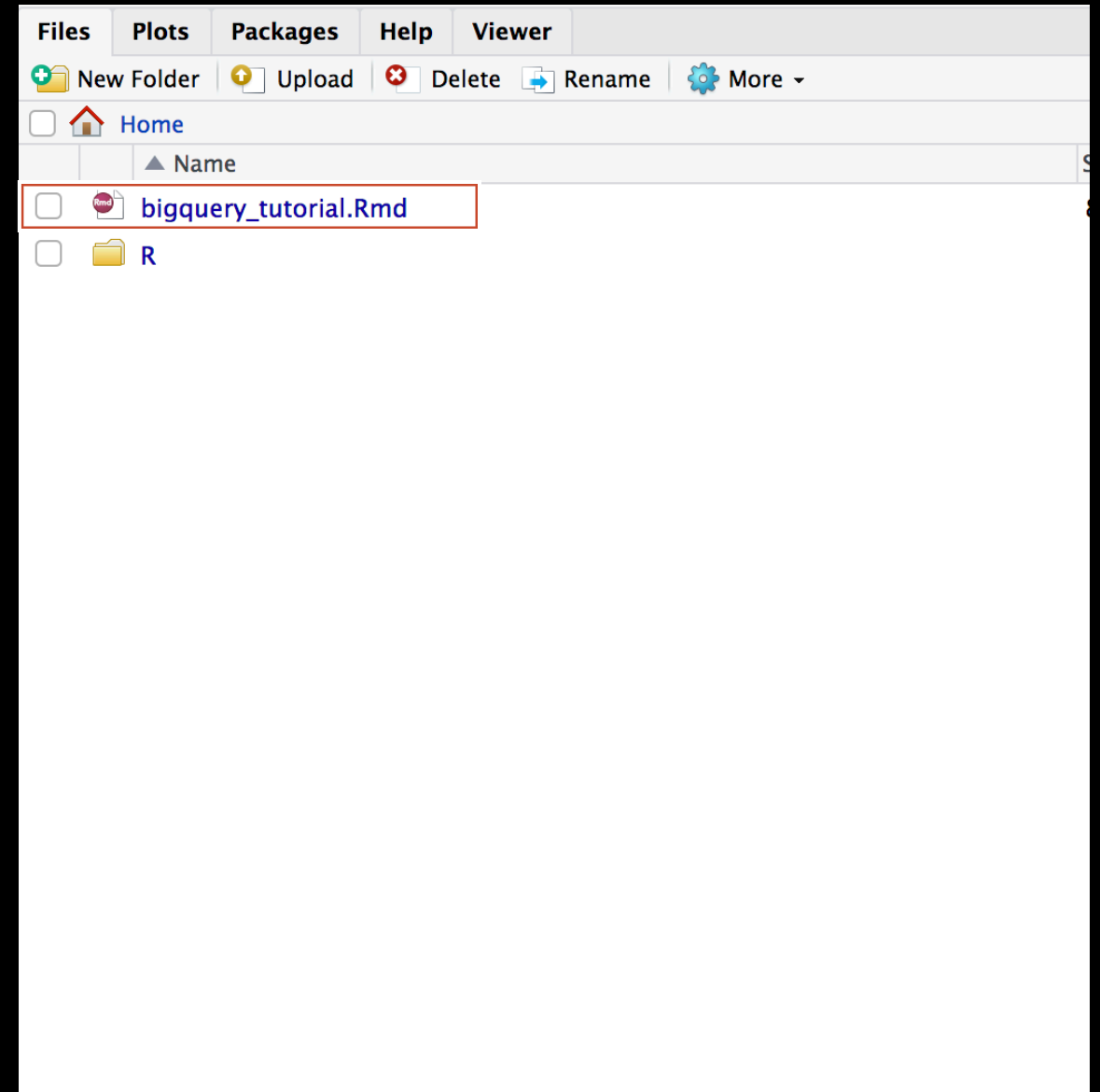
Password:
.....

☐ Stay signed in

Sign In

step2

1. You will now be able to execute R commands
2. However we need to install few packages to have MIMIC with us.
3. Click **bigquery_tutorial.Rmd**



step3

- Follow the instruction given and **install packages Required.**

```
# Install the "big R query" package, if necessary by un
# install.packages('devtools')
# devtools::install_github("rstats-db/bigrquery")

library("bigrquery")

# Install ggplot2, uncomment next line if this is the fi
# install.packages("ggplot2")
library("ggplot2")

# Re-install curl to avoid errors like:
# Error in curl::curl_fetch_memory(url, handle = handle)
#   Error in the HTTP2 framing layer
# Uncomment next line if this is the first time this sec
# install.packages("curl")

# Install missing dependency, uncomment next line if thi
# install.packages("readr")
```

step4

- Before running any queries, please make sure to change your **project_id** and **database name**.
- **Project_id** = “datathon-korea-2018”
- **Database_name** = “physionet-data.mimiciii_deme.foo”

```
# Install the "big R query" package, if necessary by un
# install.packages('devtools')
# devtools::install_github("rstats-db/bigquery")

library("bigquery")

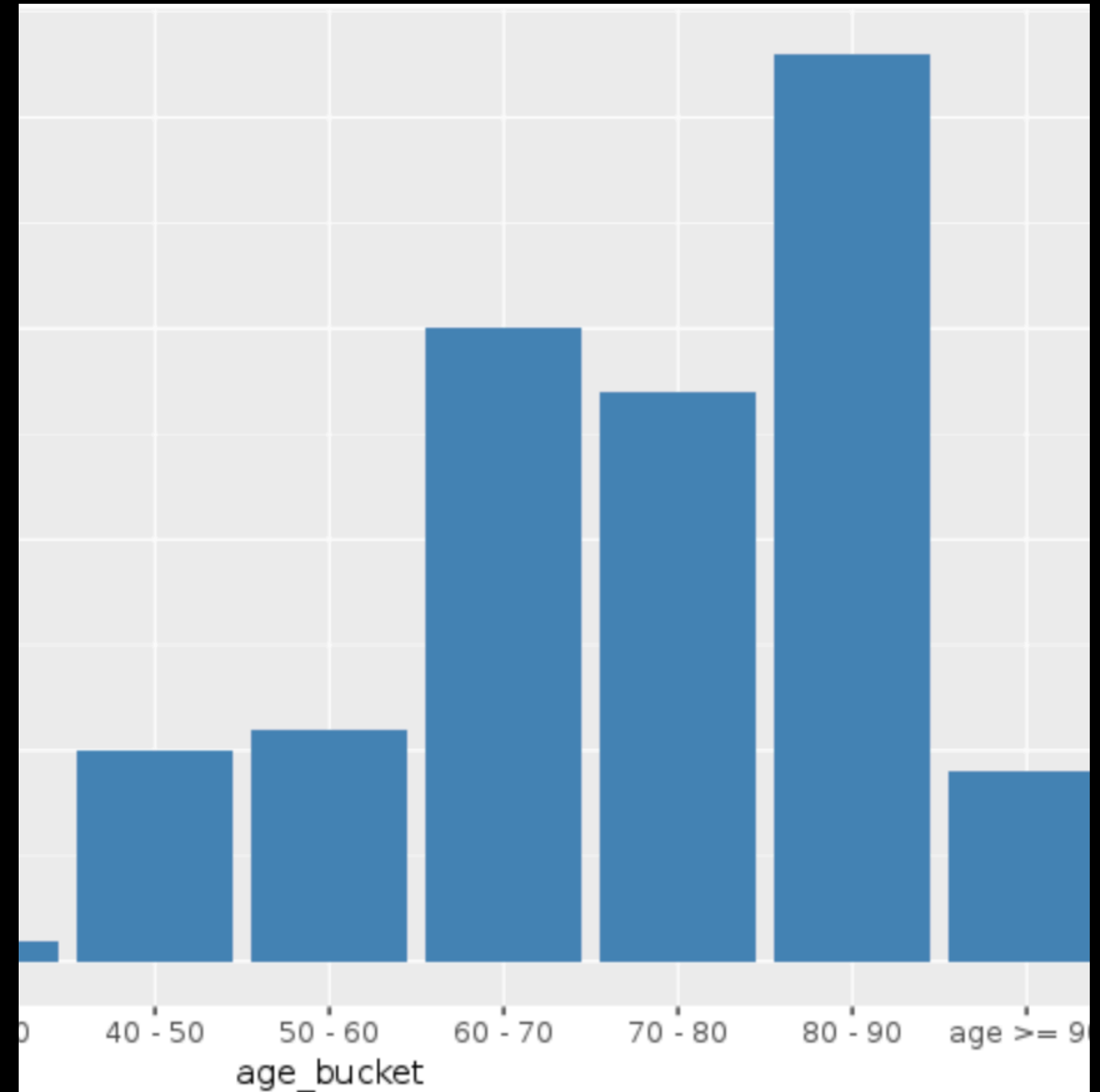
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#   Error in the HTTP2 framing layer
# Uncomment next line if this is the first time this sec
# install.packages("curl")

# Install missing dependency, uncomment next line if thi
# install.packages("readr")
```

step5

- You are now able to run the sample queries given to you.
- You should be able to get a and graph as shown for your first query result.



FYI

- You only have permissions to your own directory.
- **Git command is Available** in R-server. You are able share your work with other team members with Github.