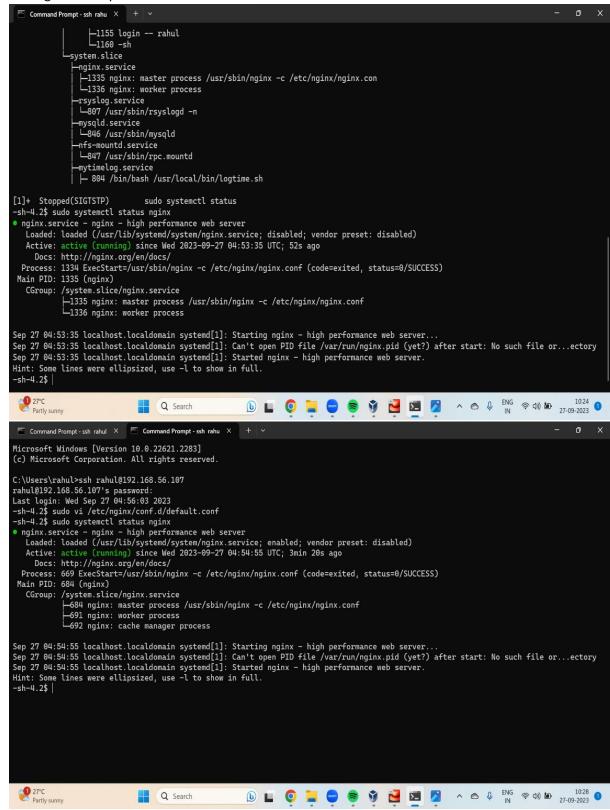
Load Balancer

- 1. Have two virtual Box machines. Lets say VM1 and VM2
- 2. Run Nginx on 80 port in both the machines



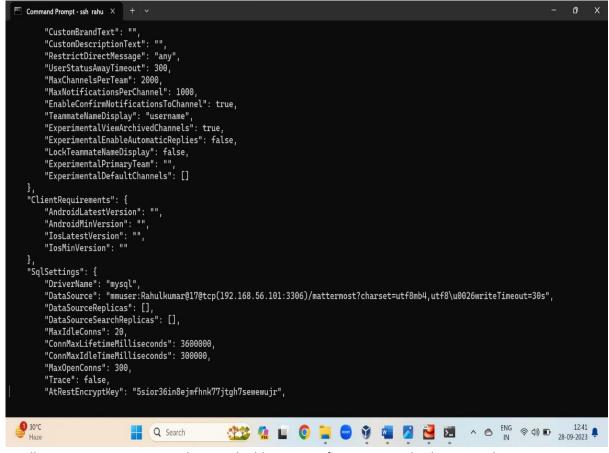
3. Run Mattermost on 8065 port in both the machines

```
Command Prompt - ssh rahu X
  Microsoft Windows [Version 10.0.22621.2361]
  (c) Microsoft Corporation. All rights reserved.
  C:\Users\rahul>ssh rahul@192.168.56.101
  rahul@192.168.56.101's password:
  Last login: Thu Sep 28 07:23:45 2023
   -sh-4.2$ sudo systemctl status mattermost
   mattermost.service - Mattermost
        Loaded: loaded (/etc/systemd/system/mattermost.service; enabled; vendor preset: disabled)
         Active: active (running) since Thu 2023-09-28 07:23:37 UTC; 45s ago
    Main PID: 804 (mattermost)
        CGroup: /system.slice/mattermost.service
                             - 804 /opt/mattermost/bin/mattermost
                             —1108 plugins/com.mattermost.plugin-channel-export/server/dist/plugin-linux-amd64
                             —1113 plugins/com.mattermost.nps/server/dist/plugin-linux-amd64
                             —1118 plugins/com.mattermost.apps/server/dist/plugin-linux-amd64
                             -1123 plugins/playbooks/server/dist/plugin-linux-amd64
                            __1128 plugins/focalboard/server/dist/plugin-linux-amd64
 Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.265 Z","level":"info","msg":"Plugin ...pps"}
Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.265 Z","level":"info","msg":"Plugin ...pps"}
Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.482 Z","level":"info","msg":"Initial...ons"}
Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.485 Z","level":"info","msg":"Initial...ons"}
Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.487 Z","level":"info","msg":"Initial...ger"}
Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.513 Z","level":"info","msg":"Server...ard"}
Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.569 Z","level":"info","msg":"Sarver...ard"}
Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.569 Z","level":"info","msg":"Startin...209"}
Sep 28 07:23:37 localhost.localdomain systemd[1]: Started Mattermost.
Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.567 Z","level":"info","msg":"Startin...209"}
Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.576 Z","level":"info","msg":"Startin...209"}
Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.576 Z","level":"info","msg":"Startin...209"}
  Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.585 Z","level":"info","msg":"Server ...065"}
Sep 28 07:23:37 localhost.localdomain mattermost[804]: {"timestamp":"2023-09-28 07:23:37.586 Z","level":"info","msg":"Sending...130"}
  Hint: Some lines were ellipsized, use -l to show in full.
   -sh-4.2$
                                                                                                                   254 € NG (% 4)) © 1254 € NG (% 4)) © 1254 € NG (% 4)) © 28-09-2023 ♣
     30°C
                                                                  Q Search
     Command Prompt - ssh rahu X + v
  (c) Microsoft Corporation. All rights reserved.
  C:\Users\rahul>ssh rahul@192.168.56.107
 rahul@192.168.56.107's password:
  Last login: Thu Sep 28 07:10:46 2023
   -sh-4.2$ sudo vi /opt/mattermost/config/config.json
   -sh-4.2$ sudo systemctl restart mattermost
    -sh-4.2$ sudo systemctl status mattermost
   mattermost.service - Mattermost
        Loaded: loaded (/etc/systemd/system/mattermost.service; enabled; vendor preset: disabled)
         Active: active (running) since Thu 2023-09-28 07:12:24 UTC; 40s ago
    Main PID: 1025 (mattermost)
        CGroup: /system.slice/mattermost.service
                            -1025 /opt/mattermost/bin/mattermost
                              -1064 plugins/com.mattermost.apps/server/dist/plugin-linux-amd64
                              —1067 plugins/com.mattermost.nps/server/dist/plugin-linux-amd64
                            -1074 plugins/com.mattermost.plugin-channel-export/server/dist/plugin-linux-amd64
                              -1079 plugins/playbooks/server/dist/plugin-linux-amd64
                            __1085 plugins/focalboard/server/dist/plugin-linux-amd64
Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.015 Z", "level":"info", "msg":"Plugin...pps"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.378 Z", "level":"info", "msg":"Initia...ons"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.386 Z", "level":"info", "msg":"Initia...ons"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.387 Z", "level":"info", "msg":"Initia...oge"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.420 Z", "level":"info", "msg":"Server...ard"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.472 Z", "level":"error", "msg":"Mail ...rue"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.478 Z", "level":"info", "msg":"Server...065"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.493 Z", "level":"info", "msg":"Server...065"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.493 Z", "level":"info", "msg":"Server...065"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.493 Z", "level":"info", "msg":"Sendin...130"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.493 Z", "level":"info", "msg":"Sendin...130"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.493 Z", "level":"info", "msg":"Sendin...130"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.493 Z", "level":"info", "msg":"Sendin...130"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.493 Z", "level":"info", "msg":"Sendin...130"} Sep 28 07:12:24 localhost.localdomain mattermost[1025]: {"timestamp":"2023-09-28 07:12:24.97 Z", "level":"info", "msg":"Sendin...130"} Sep 28 
  Sep 28 07:12:24 localhost.localdomain systemd[1]: Started Mattermost.
  Hint: Some lines were ellipsized, use -l to show in full.
   -sh-4.2$
      ● 30°C
                                                                                                                    Q Search
```

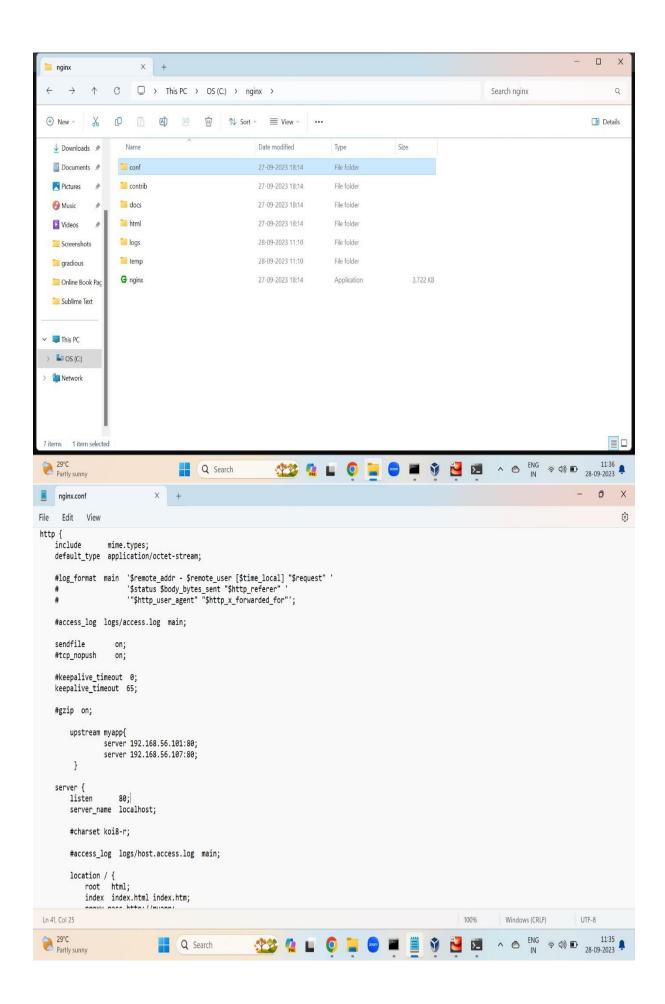
4. Run MySql only in first machine (VM1)

```
Command Prompt - ssh rahu X Command Prompt - ssh rahul X
  le-web-app-title" content="Mattermost" /><meta name="apple-mobile-web-app-capable" content="yes" /><meta name="apple-mobile-web-app-s
 tatus-bar-style" content="default" /><link rel="apple-touch-icon" sizes="76x76" href="/static/icon_76x76.png" /><link rel="apple-touch-icon" sizes="76x72" href="/static/icon_76x76.png" /><link rel="apple-touch-icon" sizes="6x60" href="/static/icon_60x60.png" />
N-1con" sizes="/zx/z" 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="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/icon_144x144.png" />head><body class="font--open_sans ena ble-animations"><div id="root"><div class="font--open_sans ena ble-animations"><div id="root"><div class="font--open_sans ena ble-animations"><div class="font-open_sans enable-animations"><div class="font-open_sans ena ble-animations"><div class="font-open_sans ena ble-animations"><div class="font-op
    -sh-4.2$ ls
  mmcert.pem mm.pem -sh-4.2$ ls -l
  total 8
    -rw-r---. 1 root root 1220 Sep 7 21:23 mmcert.pem
-rw-r--r-. 1 root root 1704 Sep 7 21:23 mm.pem
     -sh-4.2$ sudo systemctl start mysqld
      -sh-4.2$ sudo systemctl status mysqld
         mysqld.service - MySQL Server
Loaded: loaded (/usr/lib/systemd/system/mysqld.service; enabled; vendor preset: disabled)
Active: active (running) since Wed 2023-09-27 04:42:50 UTC; 1h 27min ago
                      Docs: man:mysqld(8)
                                              http://dev.mysql.com/doc/refman/en/using-systemd.html
      Main PID: 846 (mysqld)
             Status: "Server is operational"
CGroup: /system.slice/mysqld.service
-846 /usr/sbin/mysqld
  Sep 27 04:42:45 localhost.localdomain systemd[1]: Starting MySQL Server...
Sep 27 04:42:50 localhost.localdomain systemd[1]: Started MySQL Server.
      sh-4.2$
                                                                                                                                                                       Q Search
```

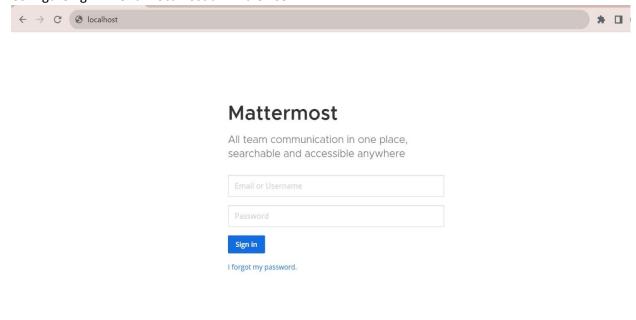
5. Change Mattermost config in VM2 to point to VM1 MySql



6. Install nginx server in your windows and add proxy config to point to both VM1 and VM2 NGINX



7. Configure nginx file run localhost url in browser



MATTERM