

## INSTALLATION

Suppose we want to install metabase with a specific version (v0.37.0.2)

Prerequisites:

Postgresql

Nginx

Java (openjdk8 or higher)

To install postgresql:

```
root@oss-wfm-dev-opsbpm:#sudo apt update
root@oss-wfm-dev-opsbpm:#sudo apt install postgresql postgresql-contrib
```

To install nginx:

```
root@oss-wfm-dev-opsbpm:#sudo apt update
root@oss-wfm-dev-opsbpm:#sudo apt install nginx
```

Check if java is installed:

```
root@oss-wfm-dev-opsbpm:#java -version
```

If java 8 is not installed:

```
root@oss-wfm-dev-opsbpm:#sudo apt install openjdk-8-jre-headless
```

Create metabase directory in /opt:

```
root@oss-wfm-dev-opsbpm:#mkdir /opt/metabase
```

Download jar file of metabase:

```
root@oss-wfm-dev-opsbpm:#cd /opt/metabase
root@oss-wfm-dev-opsbpm:#wget http://downloads.metabase.com/v0.43.4/metabase.jar
```

Add group and user for metabase:

```
root@oss-wfm-dev-opsbpm:#sudo groupadd -r metabase
```

```
root@oss-wfm-dev-opsbpm:#sudo useradd -r -s /bin/false -g metabase metabase
root@oss-wfm-dev-opsbpm:#sudo chown -R metabase:metabase /opt/metabase
```

Create logs and directory for metabase configuration files.

```
root@oss-wfm-dev-opsbpm:#sudo touch /var/log/metabase.log
root@oss-wfm-dev-opsbpm:#sudo chown syslog:adm /var/log/metabase.log
root@oss-wfm-dev-opsbpm:#sudo touch /etc/default/metabase
root@oss-wfm-dev-opsbpm:#sudo chmod 640 /etc/default/metabase
```

Create metabase service.

Most of the services are created and enabled in /etc/systemd/system.

```
root@oss-wfm-dev-opsbpm:#touch /etc/systemd/system/metabase.service
root@oss-wfm-dev-opsbpm:#nano /etc/systemd/system/metabase.service
```

Add these lines to the configuration:

```
[Unit]
Description=Metabase server
After=syslog.target
After=network.target

[Service]
WorkingDirectory=/opt/metabase
ExecStart=/usr/bin/java -jar /opt/metabase/metabase.jar
EnvironmentFile=/etc/default/metabase
User=metabase
Type=simple
StandardOutput=syslog
StandardError=syslog
SyslogIdentifier=metabase
SuccessExitStatus=143
TimeoutStopSec=120
Restart=always

[Install]
WantedBy=multi-user.target
```

Ctrl+x to save the changes in metabase.service. Enable and start the metabase service.

```
root@oss-wfm-dev-opsbpm:#systemctl daemon-reload
root@oss-wfm-dev-opsbpm:#systemctl enable metabase
root@oss-wfm-dev-opsbpm:#systemctl start metabase
```

Create a syslog conf to make sure systemd is able to handle the logs properly.

```
root@oss-wfm-dev-opsbpm:#touch /etc/rsyslog.d/metabase.conf  
root@oss-wfm-dev-opsbpm:#nano /etc/rsyslog.d/metabase.conf
```

And these lines to metabase.conf:

```
if $programname == 'metabase' then /var/log/metabase.log  
& stop
```

And the ctrl+x to save.

Restart the syslog service to load the new config:

```
root@oss-wfm-dev-opsbpm:#sudo systemctl restart rsyslog.service
```

Add environment variables for metabase:

```
root@oss-wfm-dev-opsbpm:#sudo nano /etc/default/metabase
```

And add these lines to metabase file:

```
MB_PASSWORD_COMPLEXITY=normal  
MB_PASSWORD_LENGTH=10  
MB_JETTY_HOST=127.0.0.1  
MB_JETTY_PORT=3000  
MB_DB_TYPE=postgres  
MB_DB_DBNAME=metabase  
MB_DB_PORT=5432  
MB_DB_USER=metabase_user  
MB_DB_PASS=metabaseap0ll0  
MB_DB_HOST=127.0.0.1  
MB_EMOJI_IN_LOGS=true
```

## POSTGRESQL

Go to the postgresql terminal.

Switch user to postgres and execute psql.

```
root@oss-wfm-dev-opsbpm:#sudo su postgres
postgres@oss-wfm-dev-opsbpm:$psql
```

Create database metabase.

```
postgres#create database metabase;
```

Create user with password and grant privileges.

```
postgres#create user metabase_user with password 'metabaseap0ll0';
postgres#grant all privileges on database metabase to metabase_user;
postgres#alter database metabase owner to metabase_user;
```

Go back to edit /etc/default/metabase and update.

```
MB_DB_DBNAME=metabase
MB_DB_USER=metabase_user
MB_DB_PASS=<password>
```

Ctrl+x to save the changes.

## NGINX

For production:

Use port 80 and 443. Also add SSL for security

Create service in nginx.

```
root@oss-wfm-dev-opsbpm:#touch /etc/nginx/sites-available/metabase
```

Add these lines to metabase file:

```
server {
    listen [::]:80;
    listen 80;

    server_name metabase.apollo.com.ph;
    proxy_read_timeout 720s;
    proxy_connect_timeout 720s;
    proxy_send_timeout 720s;
```

```
    return 301 https://metabase.apollo.com.ph$request_uri;
}

server {
    listen [::]:443 ssl;
    listen 443 ssl;

    server_name metabase.apollo.com.ph;

    ssl_certificate /etc/letsencrypt/live/metabase2.apollo.com.ph/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/metabase2.apollo.com.ph/privkey.pem;
    include /etc/letsencrypt/options-ssl-nginx.conf; # managed by Certbot
    ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot

    location / {
        proxy_pass http://127.0.0.1:3000;
        proxy_set_header X-Forwarded-Host $host;
        proxy_set_header X-Forwarded-Server $host;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    }
}
```

Create a softlink of metabase to /etc/nginx/sites-enabled:

```
root@oss-wfm-dev-opsbpm:##ln -s /etc/nginx/sites-available/metabase
/etc/nginx/sites-enabled/metabase
```

Restart nginx to apply the changes:

```
root@oss-wfm-dev-opsbpm:##systemctl restart nginx
```

For test:

Use another port. For this test, use port 9001.

May or may not add SSL.

Create service in nginx.

```
root@oss-wfm-dev-opsbpm:##touch /etc/nginx/sites-available/metabase
```

Add these lines to metabase file:

```
server {
    listen 9001;
```

```
server_name 202.60.10.232;

location / {
    proxy_pass http://127.0.0.1:3000;
    proxy_set_header X-Forwarded-Host $host;
    proxy_set_header X-Forwarded-Server $host;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
}
}
```

Create a softlink of metabase to /etc/nginx/sites-enabled.

```
root@oss-wfm-dev-opsbpm:~#ln -s /etc/nginx/sites-available/metabase
/etc/nginx/sites-enabled/metabase
```

Restart nginx to apply the changes:

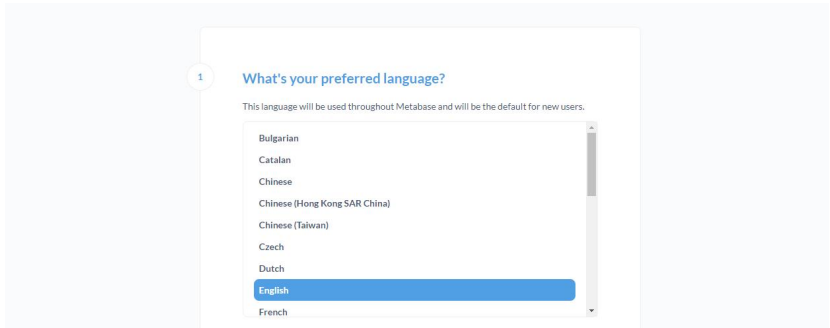
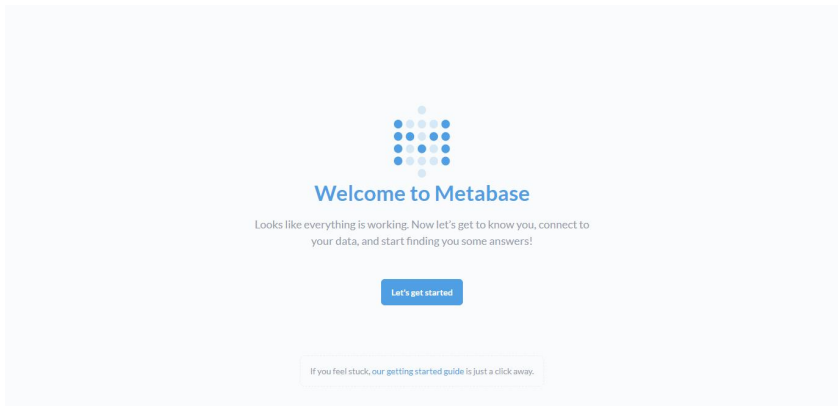
```
root@oss-wfm-dev-opsbpm:~#systemctl restart nginx
```

For final step, restart metabase service.

```
root@oss-wfm-dev-opsbpm:~#systemctl restart metabase
```

For production, from the browser, go to <https://metabase.apollo.com.ph>

For test, from the browser go to <http://202.60.10.232:9001>. Also create an admin account for metabase. After the page is loaded, it will need to create an admin account.



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## Usage data preferences

In order to help us improve Metabase, we'd like to collect certain data about product usage. Here's a full list of what we track and why.

Allow Metabase to anonymously collect usage events

- Metabase never collects anything about your data or question results.
- All collection is completely anonymous.
- Collection can be turned off at any point in your admin settings.

Next

## You're all set up!

✉ METABASE NEWSLETTER

Get infrequent emails about new releases and feature updates.

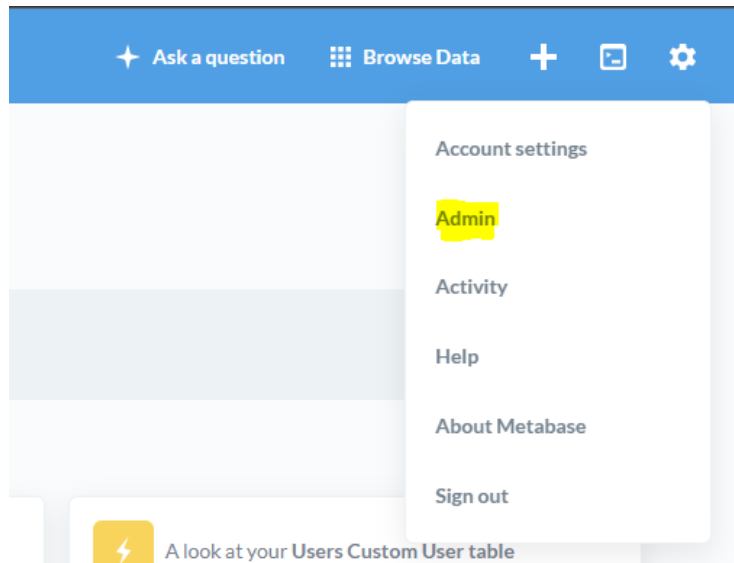
mae@apolloglobal.net

Subscribe

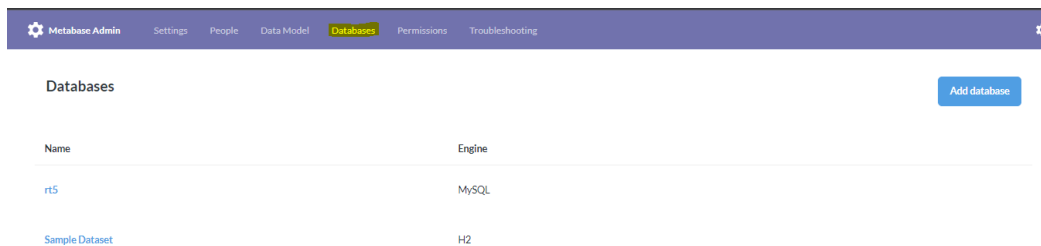
Take me to Metabase

## CONNECT DATABASE TO METABASE

Using the admin account created, go to admin.



Go to database and click 'Add database':





Add details:

DATABASES > ADD DATABASE

Database type  
PostgreSQL

Name  
How would you like to refer to this database?

Host  
localhost

Port  
5432

Database name  
birds\_of\_the\_world

Username  
What username do you use to login to the database?

Password  
●●●●●●●●

Database type: <mysql, postgresql, click dropdown for other types>  
Name: <refer\_name\_of\_the\_database>  
Host: <ip\_address\_of\_the\_server\_with\_the\_database>  
Port: <for mysql: 3306, for postgresql: 5433 or 5432>  
Database name: <database\_name>  
Username: <username\_to\_authenticate\_the\_database>  
Password: <password\_to\_authenticate\_the\_database>

After completing the details, save the changes.

Refer to page 14 on how to create user account that will be used to authenticate to the database.

