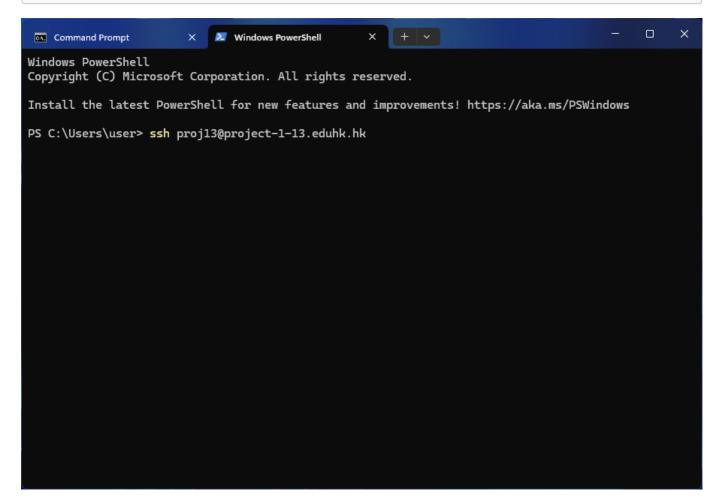
# Flowise Docker Setup Tutorial

This tutorial guides you through setting up Flowise using Docker, and configuring it to be served via Nginx.

### 1. SSH into your server

Connect to your server using SSH.

```
ssh proj13@project-1-13.eduhk.hk
```



## 2. Change Docker's Default IP Configuration

Clone the repository to change Docker's default IP, make the script executable, and run it.

```
git clone https://github.com/enoch-sit/change-docker-default-ip.git
cd change-docker-default-ip/
chmod +x script.sh
sudo ./script.sh
cd ..
```

```
proj13@project-1-13: ~/chang ×
Command Prompt
*** System restart required ***
Last login: Sat Sep 20 02:22:16 2025 from 172.18.120.181
proj13@project-1-13:~$ ls
nginxsetupscriptssl
proj13@project-1-13:~$ git clone https://github.com/enoch-sit/change-docker-default-ip.git
Cloning into 'change-docker-default-ip'...
remote: Enumerating objects: 18, done.
remote: Counting objects: 100% (18/18), done.
remote: Compressing objects: 100% (17/17), done.
remote: Total 18 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (18/18), 8.66 KiB | 4.33 MiB/s, done.
Resolving deltas: 100% (4/4), done.
proj13@project-1-13:~$ ls
change-docker-default-ip nginxsetupscriptssl
proj13@project-1-13:~$ cd change-docker-default-ip/
projl3@project-1-13:~/change-docker-default-ip$ ls
README.md script.sh
projl3@project-1-13:~/change-docker-default-ip$ sudo chmod +x script.sh
[sudo] password for proj13:
proj13@project-1-13:~/change-docker-default-ip$ ls
README.md script.sh
proj13@project-1-13:~/change-docker-default-ip$ sudo ./script.sh
Docker Install, IP Change, Verify, and Cleanup Script
Target IP range: 10.20.0.0/16 (pools), BIP: 10.20.1.1/24

√ Detected Snap Docker.

√ Backup created.

Updating Docker configuration...

√ Configuration updated.
```

### 3. Clone the Flowise Docker Setup Repository

Clone the repository containing the Flowise Docker setup.

```
git clone https://github.com/enoch-sit/flowisedockersetup202509.git
cd flowisedockersetup202509/
```

```
proj13@project-1-13: ~/flowis ×
 Command Prompt
kersetup202509.git
Cloning into 'flowisedockersetup202509'...
remote: Enumerating objects: 83, done. remote: Counting objects: 100% (83/83), done.
remote: Compressing objects: 100% (74/74), done.
remote: Total 83 (delta 45), reused 26 (delta 8), pack-reused 0 (from 0) Receiving objects: 100% (83/83), 32.70 KiB | 837.00 KiB/s, done. Resolving deltas: 100% (45/45), done.
proj13@project-1-13:~/change-docker-default-ip$ ls
flowisedockersetup202509 README.md script.sh
proj13@project-1-13:~/change-docker-default-ip$ sudo rm -r flowisedockersetup202509/
[sudo] password for proj13:
proj13@project-1-13:~/change-docker-default-ip$ ls
README.md script.sh
proj13@project-1-13:~/change-docker-default-ip$ cd ../
projl3@project-1-13:~$ git clone https://github.com/enoch-sit/flowisedockersetup202509.git
Cloning into 'flowisedockersetup202509'...
remote: Enumerating objects: 83, done.
remote: Counting objects: 100% (83/83), done.
remote: Compressing objects: 100% (74/74), done.
remote: Total 83 (delta 45), reused 26 (delta 8), pack-reused 0 (from 0)
Receiving objects: 100% (83/83), 32.70 KiB | 881.00 KiB/s, done.
Resolving deltas: 100% (45/45), done.
proj13@project-1-13:~$ ls
change-docker-default-ip flowisedockersetup202509 nginxsetupscriptssl
proj13@project-1-13:~$ cd flowisedockersetup202509/
proj13@project-1-13:~/flowisedockersetup202509$ ls
backup.sh docker-compose.yml monitor.sh deploy.sh init-db nginx-integ
                                                               README.md
                                   nginx-integration.conf secure-setup.sh
proj13@project-1-13:~/flowisedockersetup202509$
                                                                                                         ×
 proj13@project-1-13: ~/flowis X
remote: Compressing objects: 100% (74/74), done.
remote: Total 83 (delta 45), reused 26 (delta 8), pack-reused 0 (from 0) Receiving objects: 100% (83/83), 32.70 KiB | 837.00 KiB/s, done. Resolving deltas: 100% (45/45), done.
proj13@project-1-13:~/change-docker-default-ip$ ls
flowisedockersetup202509 README.md script.sh
proj13@project-1-13:~/change-docker-default-ip$ sudo rm -r flowisedockersetup202509/
[sudo] password for proj13:
proj13@project-1-13:~/change-docker-default-ip$ ls
README.md script.sh
proj13@project-1-13:~/change-docker-default-ip$ cd ../
projl3@project-1-13:~$ git clone https://github.com/enoch-sit/flowisedockersetup202509.git
Cloning into 'flowisedockersetup202509'...
remote: Enumerating objects: 83, done. remote: Counting objects: 100% (83/83), done.
remote: Compressing objects: 100% (74/74), done.
remote: Total 83 (delta 45), reused 26 (delta 8), pack-reused 0 (from 0)
Receiving objects: 100% (83/83), 32.70 KiB | 881.00 KiB/s, done.
Resolving deltas: 100% (45/45), done.
proj13@project-1-13:~$ ls
change-docker-default-ip flowisedockersetup202509 nginxsetupscriptssl
proj13@project-1-13:~$ cd flowisedockersetup202509/
proj13@project-1-13:~/flowisedockersetup202509$ ls
backup.sh docker-compose.yml monitor.sh deploy.sh init-db nginx-integ
                                                               README.md
                                   nginx-integration.conf secure-setup.sh
proj13@project-1-13:~/flowisedockersetup202509$ sudo chmod +x deploy.sh
proj13@project-1-13:~/flowisedockersetup202509$ ls
                                                               README.md
backup.sh docker-compose.yml monitor.sh
deploy.sh init-db
                                   nginx-integration.conf secure-setup.sh
proj13@project-1-13:~/flowisedockersetup202509$
```

Before deploying Flowise, ensure that port 3000 is free. If you have other Node.js applications running, for example with PM2, you should stop them.

```
# Check if any process is using port 3000
sudo lsof -i :3000

# List all processes managed by PM2
pm2 list

# Stop all PM2-managed processes
pm2 stop all

# Or, to delete them completely
pm2 delete all
```

### 5. Deploy Flowise

Make the deployment script executable and run it. This will generate passwords and start the Flowise and Postgres containers.

```
chmod +x deploy.sh
sudo ./deploy.sh
```

```
П
                                                                                                     ×
 proj13@project-1-13: ~/flowis ×
Resolving deltas: 100% (45/45), done.
proj13@project-1-13:~$ ls
change-docker-default-ip flowisedockersetup202509 nginxsetupscriptssl
proj13@project-1-13:~$ cd flowisedockersetup202509/
proj13@project-1-13:~/flowisedockersetup202509$ ls
backup.sh docker-compose.yml monitor.sh
                                                         README.md
deploy.sh init-db
                                nginx-integration.conf secure-setup.sh
proj13@project-1-13:~/flowisedockersetup202509$ sudo chmod +x deploy.sh
proj13@project-1-13:~/flowisedockersetup202509$ ls
backup.sh docker-compose.yml monitor.sh
                                                         README.md
deploy.sh init-db
                                nginx-integration.conf secure-setup.sh
proj13@project-1-13:~/flowisedockersetup202509$ sudo ./deploy
sudo: ./deploy: command not found
proj13@project-1-13:~/flowisedockersetup202509$ sudo ./deploy.sh
=== Generating secure passwords and configurations ===
Generating secure passwords...
PostgreSQL Password: NLKKwXDMolajr7bf6mYzi7WhVcCf9ARlf1wHfV30ydA=
Flowise Password: A+Bfcd8Im/F2F8am2Sdb+RNvMgA=
Secret Key: 1d4c81c7d667bdca585dc45e05879e3a9200afb88e9827491fa6d9e6b36af08d
Passwords saved to .env file
IMPORTANT: Save these passwords in a secure location!
 == Shutting down existing services and removing volumes ===
[+] Running 2/2
 ✓Volume flowisedockersetup202509_postgres_data Removed
 ✓Volume flowisedockersetup202509_flowise_data
=== Pulling the latest images ===
[+] Pulling 0/2
  flowise Pulling
   postgres Pulling
```

#### 6. Verify Deployment

Check the container logs to ensure that the deployment was successful and Flowise is running.

```
docker-compose logs -f
```

```
×
 proj13@project-1-13: ~/flowis X
ections
                 flowise
flowise
flowise
sfully
                2025-09-22 07:13:39 [INFO]: 🔐 [server]: Identity Manager initialized success
flowise
fully
flowise
                 2025-09-22 07:13:46 [INFO]: 🦴 [server]: Nodes pool initialized successfully
flowise
                 2025-09-22 07:13:46 [INFO]: 🔲 [server]: Abort controllers pool initialized s
uccessfully
                 | 2025-09-22 07:13:46 [INFO]: 🎤 [server]: Encryption key initialized successfu
flowise
lly
flowise
                | 2025-09-22 07:13:46 [INFO]: : [server]: Rate limiters initialized successful
lу
                  2025-09-22 07:13:46 [INFO]: 💾 [server]: Cache pool initialized successfully
flowise
                 2025-09-22 07:13:46 [INFO]: 📊 [server]: Usage cache manager initialized succ
flowise
essfully
                  2025-09-22 07:13:46 [INFO]: [server]: Telemetry initialized successfully
flowise
flowise
                 2025-09-22 07:13:46 [INFO]: 📴 [server]: SSE Streamer initialized successfull
flowise
                 | 2025-09-22 07:13:46 [INFO]: 🞉 [server]: All initialization steps completed s
uccessfully!
                  flowise
(1.6%); 0 WAL file(s) added, 0 removed, 0 recycled; write=25.816 s, sync=0.012 s, total=25.846 s; sync files=320, longest=0.002 s, average=0.001 s; distance=2127 kB, estimate=2127 kB; lsn=0/1B3
C140, redo lsn=0/1B3C108
```

#### 7. Update Nginx Configuration

To expose Flowise through a domain or subdomain, configure Nginx to act as a reverse proxy. Edit your site's Nginx configuration file:

```
sudo nano /etc/nginx/sites-available/project-1-13.eduhk.hk
```

Add a location block to proxy requests to the Flowise container (running on port 3000 by default).

```
client_max_body_size 100M;
location / {
   proxy_pass http://localhost:3000;
   proxy_set_header Host $host;
   proxy_set_header X-Real-IP $remote_addr;
   proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
```

```
proxy_set_header X-Forwarded-Proto $scheme;
}
```

```
proj13@project-1-13: ~
                           Windows PowerShell
GNU nano 7.2
                               /etc/nginx/sites-available/project-1-13 *
  ssl_certificate_key /etc/nginx/ssl/dept-wildcard.eduhk/dept-wildcard.eduhk.key;
  ssl_protocols TLSv1.2 TLSv1.3;
  ssl_prefer_server_ciphers on;
  ssl_ciphers HIGH:!aNULL:!MD5;
  ssl_stapling on;
  ssl_stapling_verify on;
resolver 8.8.8.8 8.8.4.4 valid=300s;
  ssl_trusted_certificate /etc/nginx/ssl/dept-wildcard.eduhk/fullchain.crt;
  # Default site root (customize if needed)
  #root /var/www/html;
  #index index.html index.htm;
  #location / {
       try_files $uri $uri/ =404;
  client_max_body_size 100M; # Allows up to 100MB request bodies
  location / {
      proxy_pass http://localhost:3000; # Proxy to your app on port 3000
      proxy_set_header Host $host;
      proxy_set_header X-Real-IP $remote_addr;
      proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
      proxy_set_header X-Forwarded-Proto $scheme;
  }
               ^O Write Out
 Help
                                   Where Is
                                                   Cut
                                                                    Execute
                                                                                     Location
                                                                                     Go To Line
 Exit
                  Read File
                                   Replace
                                                    Paste
                                                                     Justify
```

### 8. Test and Reload Nginx

Test the Nginx configuration and then reload it to apply the changes.

```
sudo nginx -t
sudo systemctl reload nginx
```

```
proj13@project-1-13: ~
    ssl_protocols TLSv1.2 TLSv1.3;
    ssl_prefer_server_ciphers on;
    ssl_ciphers HIGH:!aNULL:!MD5;
    ssl_stapling on;
    ssl_stapling_verify on; resolver 8.8.8.8 8.8.4.4 valid=300s;
    ssl_trusted_certificate /etc/nginx/ssl/dept-wildcard.eduhk/fullchain.crt;
    # Default site root (customize if needed)
    root /var/www/html;
    index index.html index.htm;
    location / {
         try_files $uri $uri/ =404;
projl3@project-1-13:~$ sudo nano /etc/nginx/sites-available/$host_name
[sudo] password for proj13:
proj13@project-1-13:~$ echo $hostname
proj13@project-1-13:~$ echo $host_name
projl3@project-1-13:~$ sudo nano /etc/nginx/sites-available/$HOSTNAME
proj13@project-1-13:~$ sudo nano /etc/nginx/sites-available/$hostname
proj13@project-1-13:~$ sudo nano /etc/nginx/sites-available/$HOSTNAME
[sudo] password for proj13:
projl3@project-1-13:~$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
proj13@project-1-13:~$ sudo systemctl reload nginx
proj13@project-1-13:~$
```

#### 9. Get Credentials

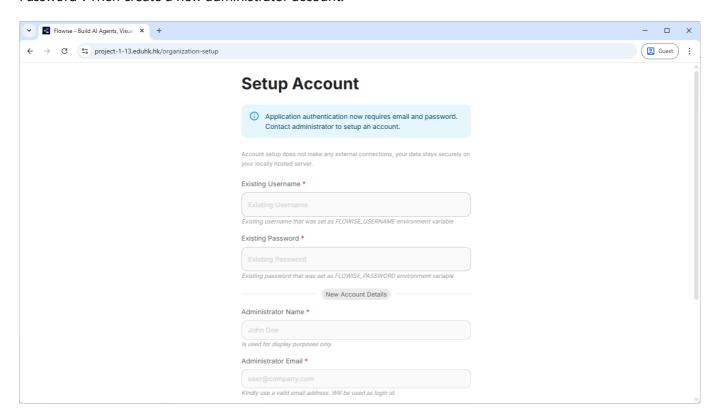
View the .env file to get the FLOWISE\_USERNAME and FLOWISE\_PASSWORD.

```
sudo cat .env
```

```
🔼 proj13@project-1-13: ~/flowis 🛛 🗡
proj13@project-1-13:~$ echo $host_name
proj13@project-1-13:~$ sudo nano /etc/nginx/sites-available/$HOSTNAME
projl3@project-1-13:~$ sudo nano /etc/nginx/sites-available/$hostname
proj13@project-1-13:~$ sudo nano /etc/nginx/sites-available/$HOSTNAME
[sudo] password for proj13:
proj13@project-1-13:~$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok nginx: configuration file /etc/nginx/nginx.conf test is successful
proj13@project-1-13:~$ sudo systemctl reload nginx
proj13@project-1-13:~$ cd flowisedockersetup202509/
proj13@project-1-13:~/flowisedockersetup202509$ ls
backup.sh docker-compose.yml monitor.sh deploy.sh init-db nginx-integ
                                                             README.md
                                  nginx-integration.conf secure-setup.sh
proj13@project-1-13:~/flowisedockersetup202509$
cat: .env: Permission denied
proj13@project-1-13:~/flowisedockersetup202
                                                   🤧 sudo cat .env
# Database Configuration
POSTGRES_DB=flowise_production
POSTGRES USFR=flowise admin
                                               VcCf9ARlf1wHfV30ydA=
# Flowise Authentication
FLOWISE_USERNAME=admin
FLOWISE_PASSWORD=A+Bfcd8Im/F2F8am2Sdb+RNvMgA=
  Encryption key for credentials
                                                a585dc45e05879e3a9200afb88e9827491fa6d9e6b36af08d
proj13@project-1-13:~/+Lowisedockersetup202509$
```

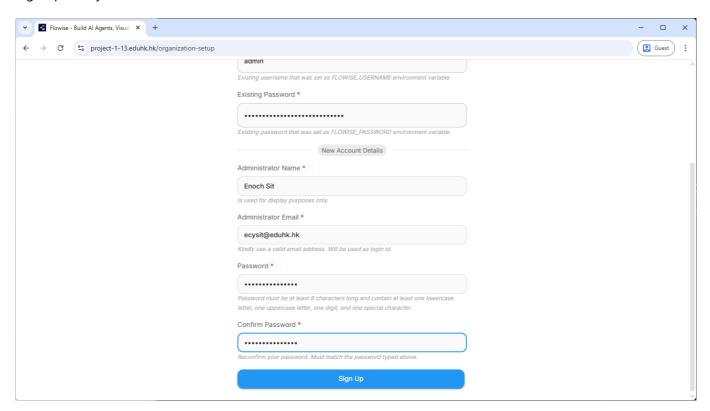
#### 10. Create Your Account

Open your browser and navigate to https://project-1-13.eduhk.hk/organization-setup. Use the FLOWISE\_USERNAME and FLOWISE\_PASSWORD from the .env file as the "Existing Username" and "Existing Password". Then create a new administrator account.



# 11. Finalize Flowise UI Setup

Sign up with your new account details.



# 12. Flowise is Ready

Congratulations! Your Flowise instance is now up and running, accessible through your domain.

