

Instruction Manual: Setting Up Redis and RabbitMQ using Docker on Windows

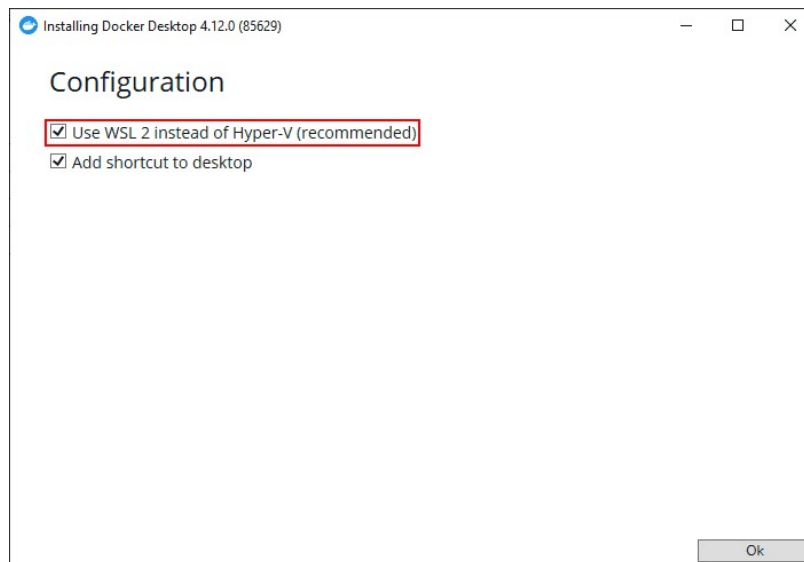
Step 1: Installing Docker on Windows

1. Download Docker:

- Go to the [Docker Desktop for Windows](#) official website.
- Click on "Download for Windows" and download the installer.

2. Install Docker:

- Find the downloaded Docker installer on your computer.
- Double-click it to start the installation process.
- Follow the on-screen instructions and accept the terms and conditions.
- For detailed Instructions, [visit here](#).
- Make sure you have selected **Use WSL 2 instead of Hyper-V** option on the Configuration page while installing.



3. Start Docker:

- Once installed, open Docker Desktop. It might take a few minutes to start the first time.
- You should see a small Docker icon in your system tray, indicating Docker is running.

Step 2: Installing Redis using Docker

1. Open Command Prompt:

- Press **Windows Key + R**, type **cmd**, and press Enter.

2. Run Redis Docker Command:

- In the Command Prompt, type the following command to start a Redis instance:

```
# latest Redis
docker run -d --name redis-stack -p 6379:6379 -p 8001:8001
redis/redis-stack:latest
```

3. Check Redis:

- After running the command, you should see a long string of numbers and letters. This means Redis is now running!
- The Redis server is started at port 6379 and RedisInsight at 8001.

Step 3: Installing RabbitMQ using Docker

1. Run RabbitMQ Docker Command:

- In the Command Prompt, type the following command to start a RabbitMQ instance:

```
# latest RabbitMQ 3.12
docker run -it --rm --name rabbitmq -p 5672:5672 -p 15672:15672
rabbitmq:3.12-management
```

2. Check RabbitMQ:

- Just like with Redis, you should see a long string of numbers and letters after running the command. This indicates that RabbitMQ is running!
- The RabbitMQ server is started at port 5672 and RabbitMQ Management at 15672.

Note: Always remember to stop the Redis and RabbitMQ containers when you're done using them.

Troubleshooting:

- **Docker Issues:** If Docker isn't starting or you're experiencing issues, try restarting Docker from the system tray icon or restart your computer.
- **Port Conflicts:** If you have other services running on ports 6379, 8001, 5672, or 15672, you may face conflicts. Ensure these ports are free before starting Redis or RabbitMQ.
- **Docker Updates:** Ensure Docker is updated to the latest version for optimal performance and compatibility.