

# Docker Setup Guide for Issues Summarizer

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## 2. Loading Docker Images

To load the necessary images from the provided `.tar` files, run:

```
Unset
docker load -i issues_summarizer.tar
docker load -i ollama_models.tar
```

This will import the required images into your local Docker repository.

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## 3. Verifying Docker Images

To confirm the images have been loaded successfully, run:

```
Unset
docker images
```

You should see `issues_summarizer-streamlit_app` and `ollama/ollama` listed.

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## 4. Running the Containers

### 4.1 Start the Issues Summarizer Container

Run the following command to start the Issues Summarizer container:

```
Unset
docker run -d -p 8501:8501 --name issues_summarizer
issues_summarizer-streamlit_app
```

**Explanation:**

- `-d` → Runs the container in the background.
- `-p 8501:8501` → Maps port 8501 of the container to port 8501 on your machine.
- `--name issues_summarizer` → Names the container for easier management.

## 4.2 Start the Ollama Container

Run the following command:

```
Unset  
docker run -d -p 11434:11434 --name ollama ollama/ollama
```

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## 5. Creating a Docker Network

To ensure both containers can communicate, create a network:

```
Unset  
docker network create summarizer_net
```

Then restart the containers with this network:

```
Unset  
docker run -d --name ollama --network summarizer_net -p  
11434:11434 ollama/ollama:latest  
docker run -d --name issues_summarizer --network summarizer_net  
-p 8501:8501 issues_summarizer-streamlit_app:latest
```

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## 6. Verifying Running Containers

Check if the containers are running:

```
Unset  
docker ps
```

To inspect the network:

Unset

```
docker network inspect summarizer_net
```

If correct, you should see both `issues_summarizer` and `ollama` listed under "Containers."

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## 7. Pulling Ollama and DeepSeek 1.5 Model

After verifying the network, execute the following command to pull the necessary models inside the running Ollama container:

Unset

```
docker exec -it ollama ollama pull llama3.2
docker exec -it ollama ollama pull deepseek-r1:1.5b
```

This will download the Ollama 3.2 and DeepSeek 1.5 model inside the container.

After downloading, to check are the models pulled inside container run:

```
docker exec -it ollama ollama list
```

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## 8. Restarting and Stopping Containers

If you need to restart the containers, use:

Unset

```
docker restart issues_summarizer ollama
```

To stop and remove them:

Unset

```
docker stop issues_summarizer ollama
docker rm issues_summarizer ollama
```

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## 9. Accessing the Application

Once everything is set up, open a browser and go to:

```
Unset  
http://localhost:8501
```

This should display the Issues Summarizer interface.

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## 10. Additional Notes

- If you face port conflicts, modify `-p 8501:8501` and `-p 11434:11434` to available ports.
- If there are any issues, check logs using:

```
Unset  
docker logs issues_summarizer  
docker logs ollama
```

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