

# Docker image `ghcr.io/morphik-org/morphik-core:latest` fails to start: `ModuleNotFoundError: No module named 'utils'` (missing `utils.env_loader`)

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## Summary

When deploying Morphik using the official Docker installer (`install_docker.sh`), both `morphik-app` and `morphik-worker` containers exit immediately with `ModuleNotFoundError: No module named 'utils'` caused by `from utils.env_loader import load_local_env` in `/app/core/config.py`.

Inspecting the `latest` image shows that `/app/utils` does not exist and `env_loader.py` is not present anywhere under `/app`, making the import impossible and preventing the API from starting.

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## Environment

- Host OS: Ubuntu 24.04.3 LTS (noble)
  - Docker: 29.1.2
  - Docker Compose: v5.0.0
  - GPU: NVIDIA L40S (Driver 580.82.07) (*likely unrelated*)
  - Install method: official `install_docker.sh` (quick start / prebuilt image)
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## Steps to Reproduce

1. On a clean host with Docker + Docker Compose:

```
mkdir -p /opt/morphik-core && cd /opt/morphik-core
curl -sSL https://raw.githubusercontent.com/morphik-org/morphik-core/main/install_docker.sh | bash
```

2. Complete the installer prompts (in my case: embeddings via Ollama; however the failure happens before the API comes up).
3. Start the stack (via generated `start-morphik.sh` or `docker compose up -d`).
4. Observe container status:

```
docker compose -f docker-compose.run.yml ps -a
```

`morphik-app` and `morphik-worker` exit with code 1.

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## Actual Behavior

### morphik-app logs

```
Traceback (most recent call last):
  File "/app/start_server.py", line 15, in <module>
    from core.config import get_settings
  File "/app/core/config.py", line 9, in <module>
    from utils.env_loader import load_local_env
ModuleNotFoundError: No module named 'utils'
```

### morphik-worker logs

```
File "/app/core/config.py", line 9, in <module>
  from utils.env_loader import load_local_env
ModuleNotFoundError: No module named 'utils'
```

## Image inspection

```
docker run --rm --entrypoint /bin/sh ghcr.io/morphik-org/morphik-core:latest -lc '
echo "==" /app/utils ==";
ls -la /app/utils || echo "MISSING /app/utils";
echo;
echo "==" find env_loader.py ==";
find /app -maxdepth 6 -name "env_loader.py" -print
'
```

Output:

- MISSING /app/utils
- find returns nothing (no env\_loader.py found)

## Expected Behavior

- morphik-app and morphik-worker start successfully.
- API responds:

```
curl http://127.0.0.1:8000/health
```

## Impact

The Docker “quick start” deployment is blocked: the API never comes up and Morphik is unusable unless patched locally.

## Workaround (used to unblock)

I created a minimal `utils/env_loader.py` on the host and bind-mounted it into the containers at `/app/utils`. This resolves the import and allows the stack to start.

Note: Morphik calls `load_local_env(..., override=True)`, so the workaround must accept an `override` kwarg.

Workaround requirements:

- Provide `/app/utils/env_loader.py`
  - Implement `load_local_env(path=None, override: bool = False, **kwargs)`
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## Suspected Root Cause

The `latest` Docker image appears to be built without the `utils` package (or at least without `utils/env_loader.py`), while the code path in `/app/core/config.py` depends on it.

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## Additional Info (optional)

If helpful, I can provide:

- `docker-compose.run.yml` generated by the installer
- redacted `.env` / `morphik.toml`
- image digest from `docker image inspect ghcr.io/morphik-org/morphik-core:latest`