

Docker/Kubernetes on Mac Apple M1-Max

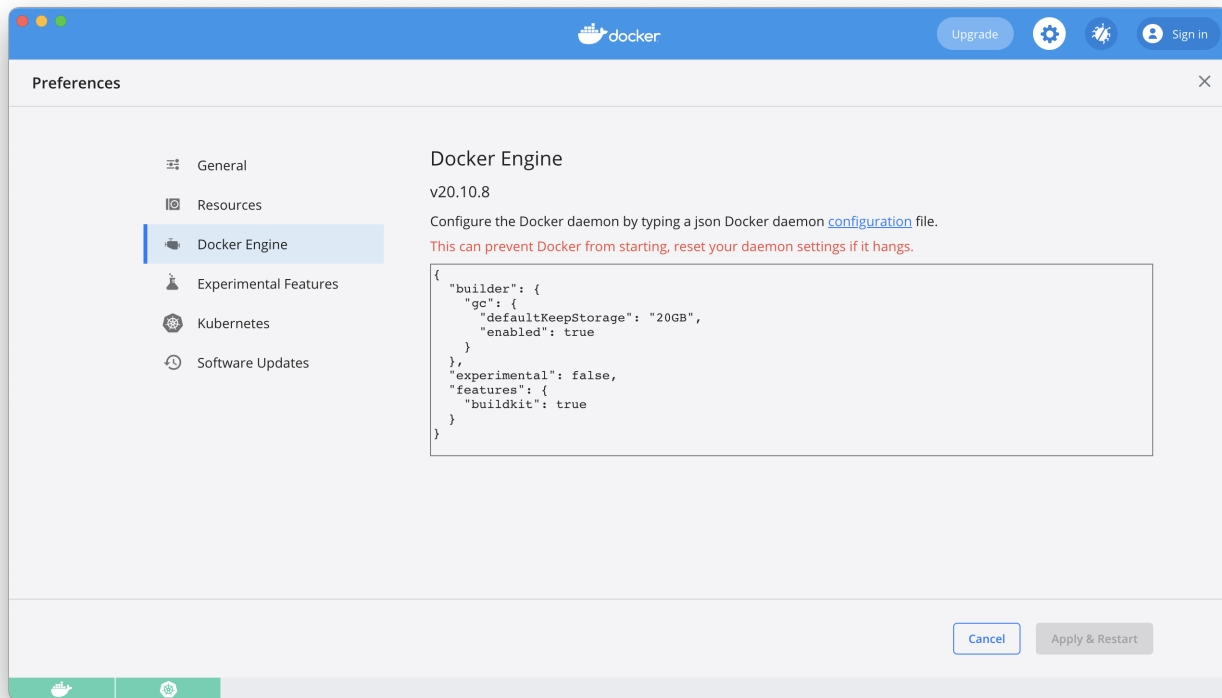
ALERT

This content may no longer be applicable.

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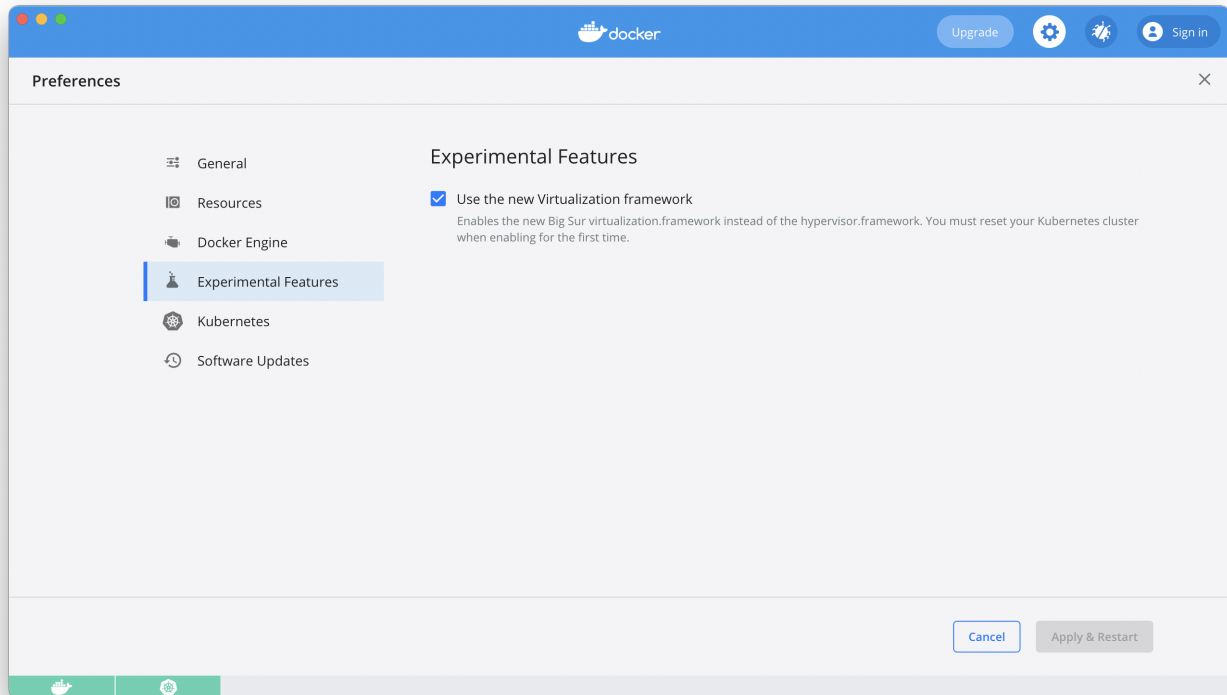
It seems that for docker to work best, we need to do the following things:

Enable Buildkit

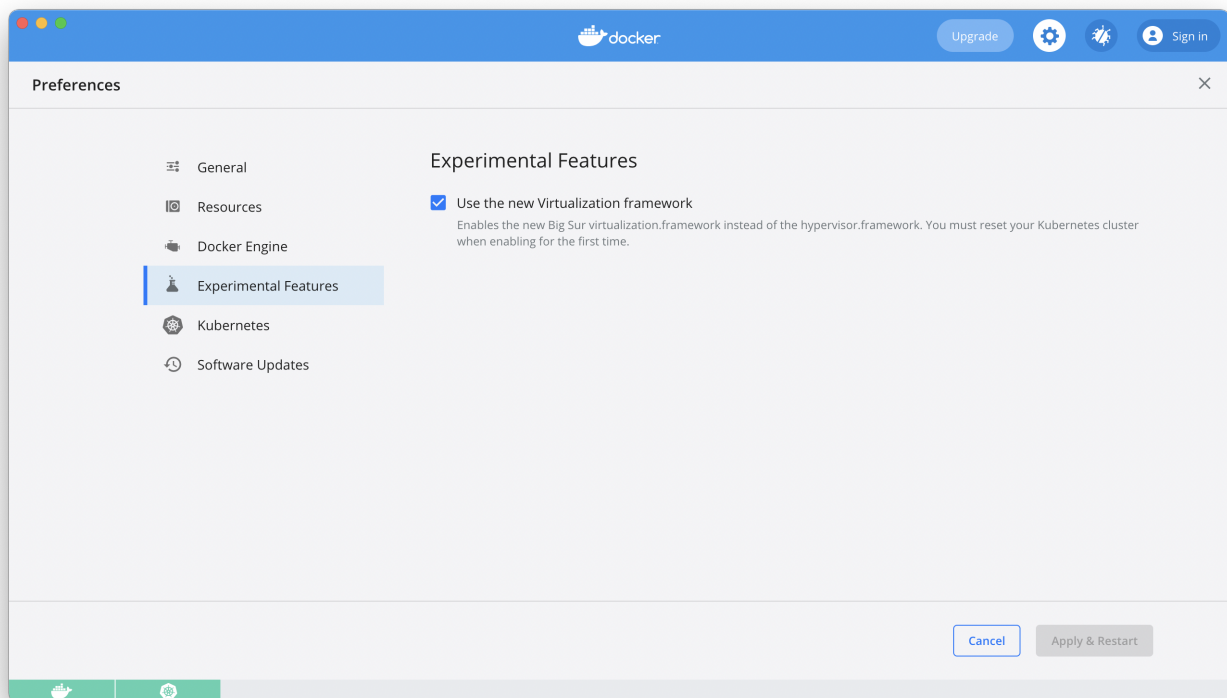


Enable Experimental Features

- Use the new Virtualization framework



After enabling this feature, reset your Kubernetes network.



Add Environment Variables

```
> vi ~/.zshrc
```

```
export DOCKER_BUILDKIT=1
export DOCKER_DEFAULT_PLATFORM=linux/arm64
```

Docker Build Errors

"failed to solve with frontend dockerfile.v0"

Error:

```
> [internal] load metadata for docker.io/ncyd/go-builder:latest:
-----
failed to solve with frontend dockerfile.v0: failed to create LLB definition: pull access denied, repository
does not exist or may require authorization: server message: insufficient_scope: authorization failed
```

Solution

Execute the following and rebuild

```
export DOCKER_BUILDKIT=0
export COMPOSE_DOCKER_CLI_BUILD=0
```

Testing seems to suggest that setting DOCKER_BUILDKIT=0 is only required.

Add this export line to your ~/.zshrc file.

Building for ARM64

Specify platform of input image in Dockerfile

```
FROM --platform=linux/arm64 alpine:3.10
...
```