Docker

- Windows Docker
- MacOS Docker
- Docker
- Docker
- Docker Dockerfile tomcat

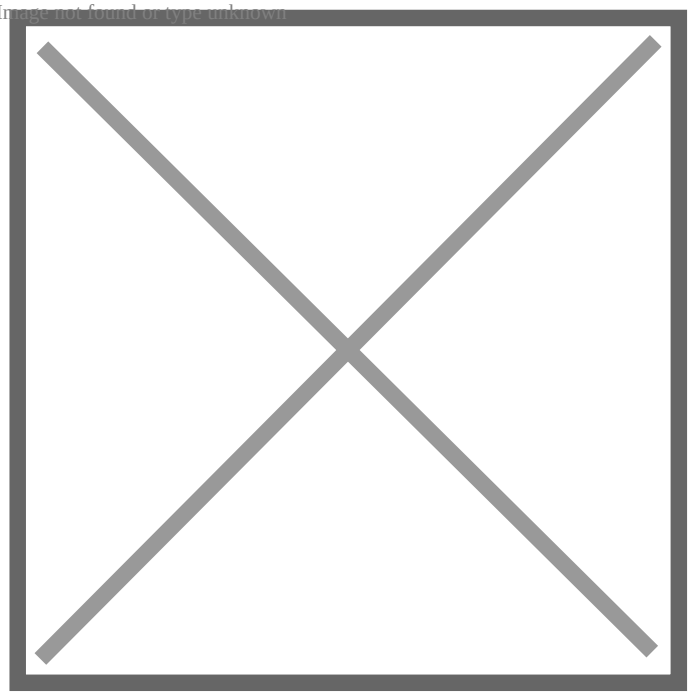
Windows Docker

Docker Linux

Docker Linux Linux

Docker Linux Docker Linux

Image not found or type unknown



Windows Docker Linux Docker

Win10

Docker Desktop Docker Windows 10 macOS Linux Docker

Docker Desktop https://hub.docker.com/editions/community/docker-ce-desktop-windows

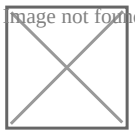
Windows 10

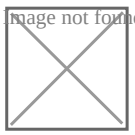
Hyper-V

Hyper-V VMWare VirtualBox Windows 10 Docker Desktop for Windows

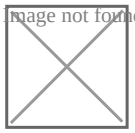
QEMU VirtualBox VMWare Workstation 15 Android

Hyper-V

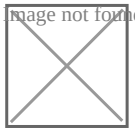




Windows



Hyper-V

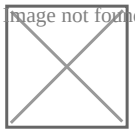


Hyper-V PowerShell

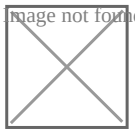
```
Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V -All
```

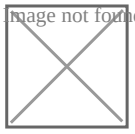
Docker Desktop for Windows

Get started with Docker Desktop Windows



Docker for Windows Installer Next Finish

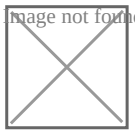


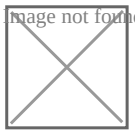


Docker Docker

docker version docker run hello-world

Windows Docker

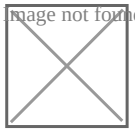




> WSL 2

PowerShell

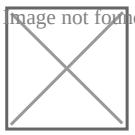
```
docker run hello-world
```



---

win7 win8

win7 win8 docker toolbox https://mirrors.aliyun.com/docker-toolbox/windows/docker-toolbox/



docker toolbox

- Docker CLI - docker
- Docker Machine - Windows docker
- Docker Compose - docker-compose
- Kitematic - Docker GUI
- Docker QuickStart shell - Docker
- Oracle VM Virtualbox -

Image not found or type unknown

Docker QuickStart Docker Toolbox

User Account Control VirtualBox Yes

Image not found or type unknown

$

```
$ docker run hello-world
 Unable to find image 'hello-world:latest' locally
 Pulling repository hello-world
 91c95931e552: Download complete
 a8219747be10: Download complete
 Status: Downloaded newer image for hello-world:latest
 Hello from Docker.
 This message shows that your installation appears to be working correctly.

 To generate this message, Docker took the following steps:
  1. The Docker Engine CLI client contacted the Docker Engine daemon.
  2. The Docker Engine daemon pulled the "hello-world" image from the Docker Hub.
     (Assuming it was not already locally available.)
  3. The Docker Engine daemon created a new container from that image which runs the
     executable that produces the output you are currently reading.
  4. The Docker Engine daemon streamed that output to the Docker Engine CLI client, which
sent it
     to your terminal.

 To try something more ambitious, you can run an Ubuntu container with:
  $ docker run -it ubuntu bash

 For more examples and ideas, visit:
  https://docs.docker.com/userguide/
```

MacOS Docker

Homebrew

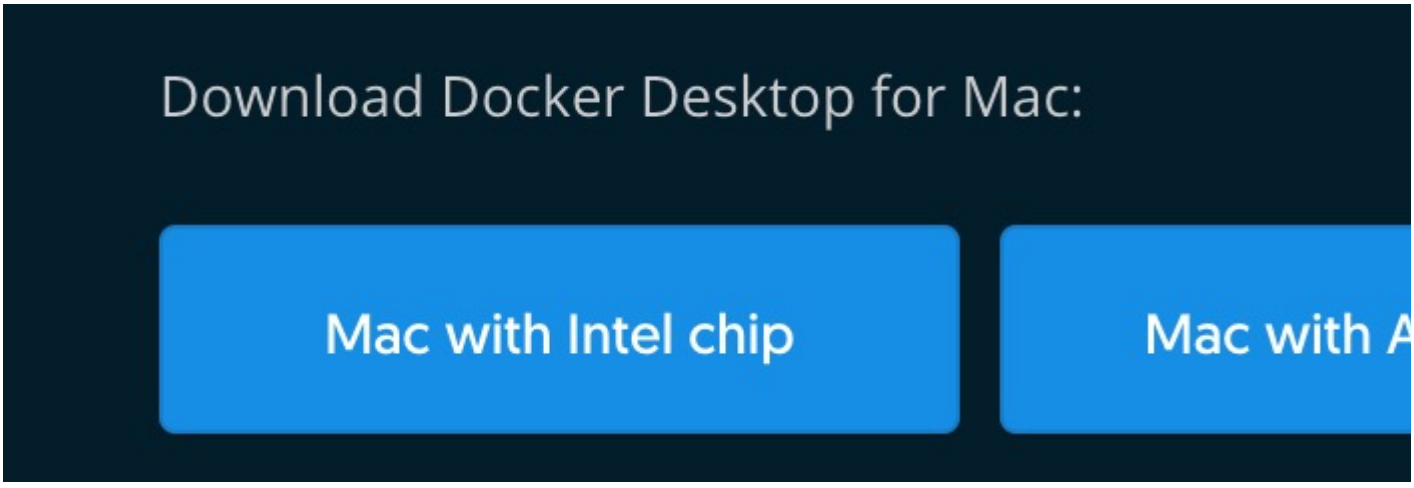
macOS Homebrew Docker

Homebrew Cask Docker for Mac Homebrew Cask

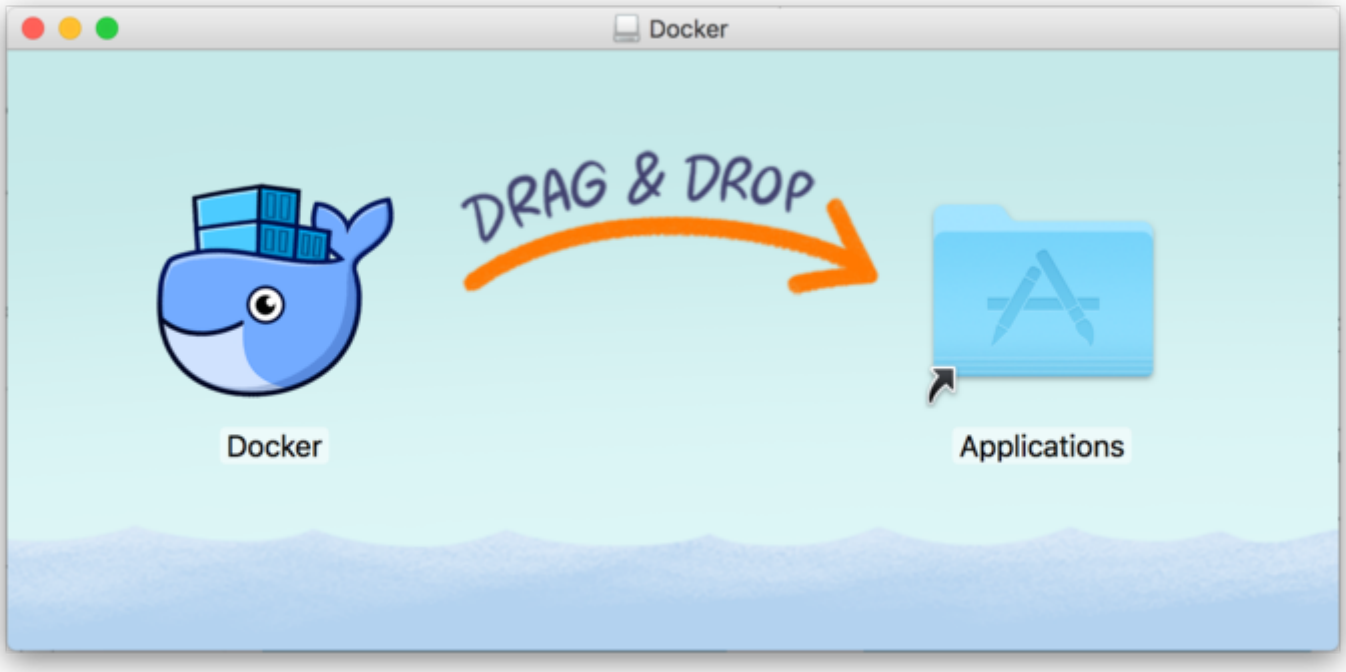
```
$ brew install --cask --appdir=/Applications docker

==> Creating Caskroom at /usr/local/Caskroom
==> We'll set permissions properly so we won't need sudo in the future
Password: #    macOS
==> Satisfying dependencies
==> Downloading https://download.docker.com/mac/stable/21090/Docker.dmg
######################################################################## 100.0%
==> Verifying checksum for Cask docker
==> Installing Cask docker
==> Moving App 'Docker.app' to '/Applications/Docker.app'.
&#x1f37a; docker was successfully installed!
```

Docker app Next macOS Docker

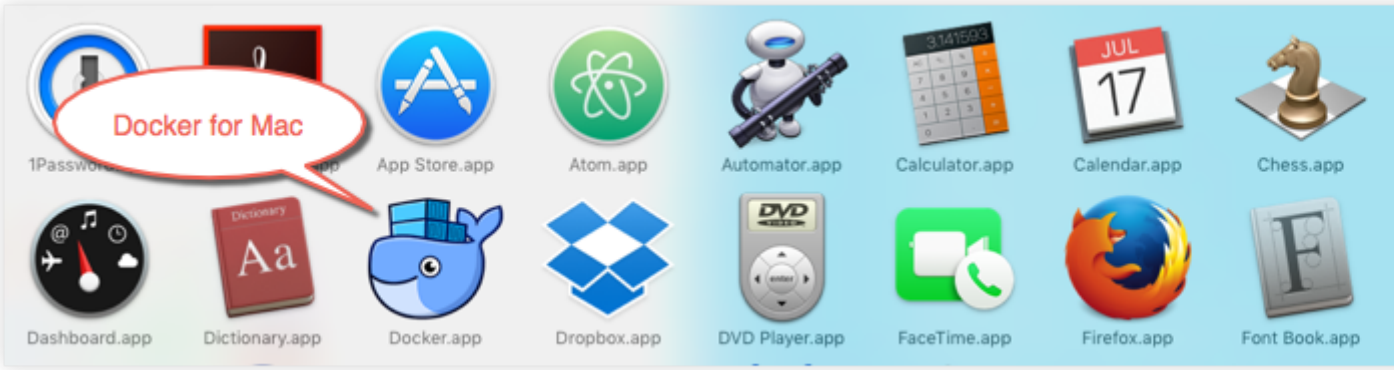
Install Docker Desktop on Mac

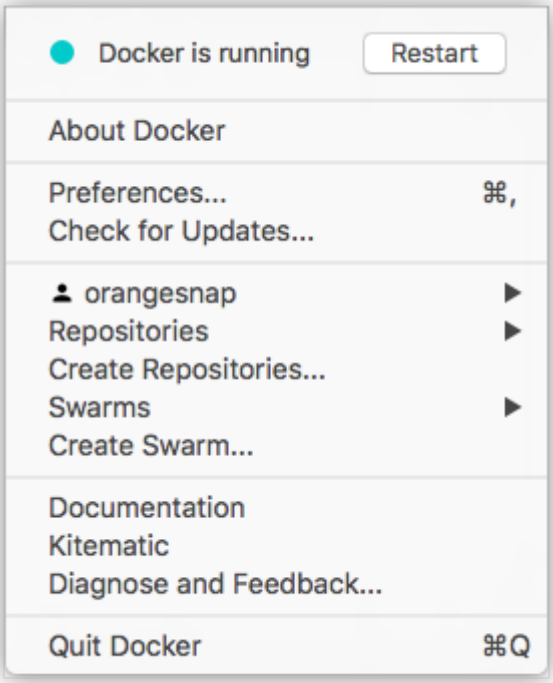


macOS .dmg Application

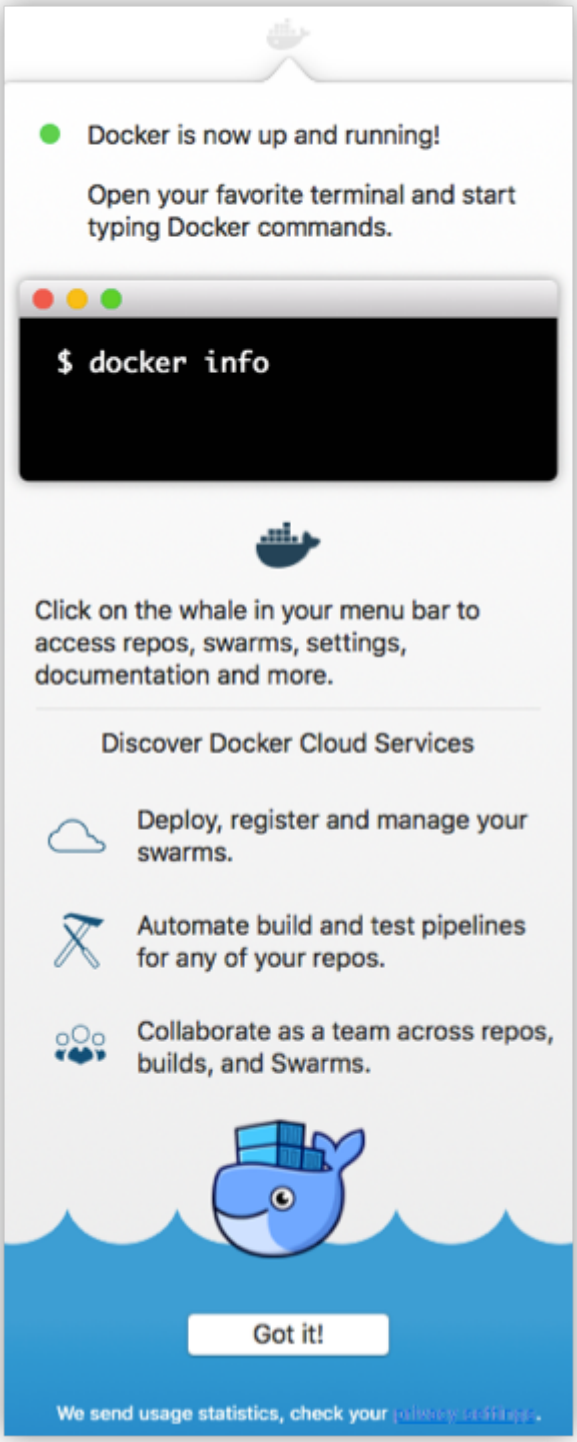


Docker macOS




Docker is running
Restart
About Docker
Preferences... ⌘,
Check for Updates...
orangesnap
Repositories
Create Repositories...
Swarms
Create Swarm...
Documentation
Kitematic
Diagnose and Feedback...
Quit Docker ⌘Q

"Got it!"

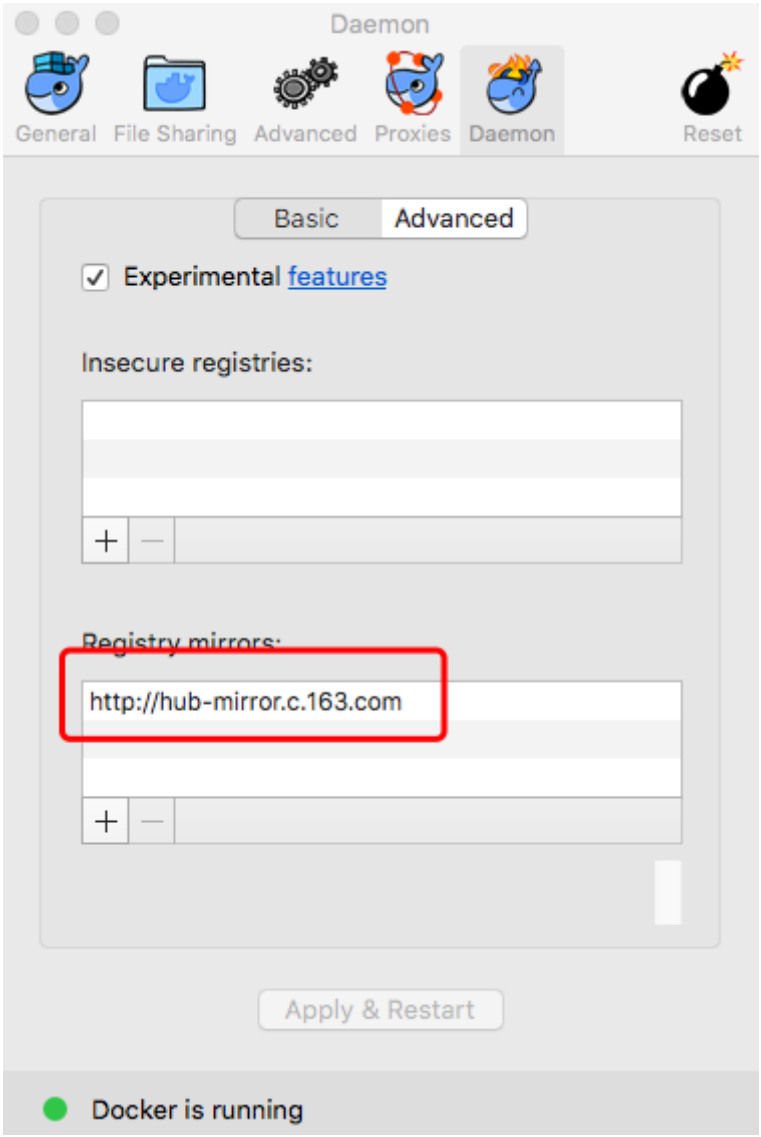


Docker

```
docker --version
Docker version 17.09.1-ce, build 19e2cf6
```

Docker http://hub-mirror.c.163.com

Docker for mac -> Perferences... -> Daemon -> Registry mirrors



docker info

```
$ docker info
...
Registry Mirrors:
 http://hub-mirror.c.163.com
Live Restore Enabled: false
```

Docker

docker compose

??	??
docker compose build	
docker compose convert	
docker compose cp	/
docker compose create	
docker compose down	
docker compose events	
docker compose exec	
docker compose images	
docker compose kill	
docker compose logs	
docker compose ls	
docker compose pause	
docker compose port	
docker compose ps	
docker compose pull	
docker compose push	
docker compose restart	
docker compose rm	
docker compose run	
docker compose start	
docker compose stop	
docker compose top	

??	??
docker compose unpause	
docker compose up	
docker compose version	Docker Compose

Docker

Docker

Docker Docker Docker

Dockerfile

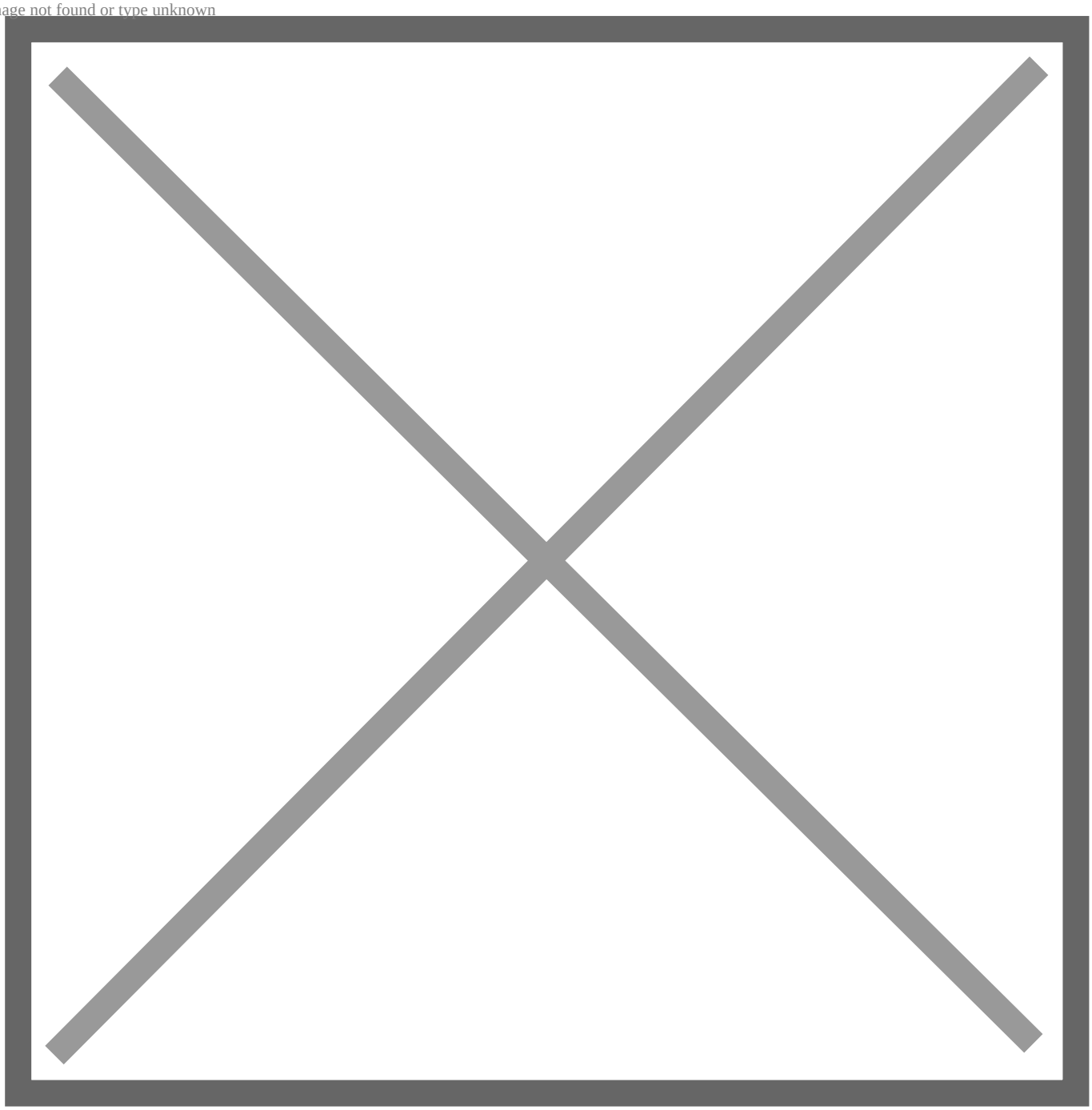
Docker Dockerfile Dockerfile

Docker Compose

Docker Compose Compose YAML

"Docker"
" " "Docker" F5 "Docker"

Image not found or type unknown



Docker

Docker
Compose
Compose Docker
Compose
Compose Compose yaml

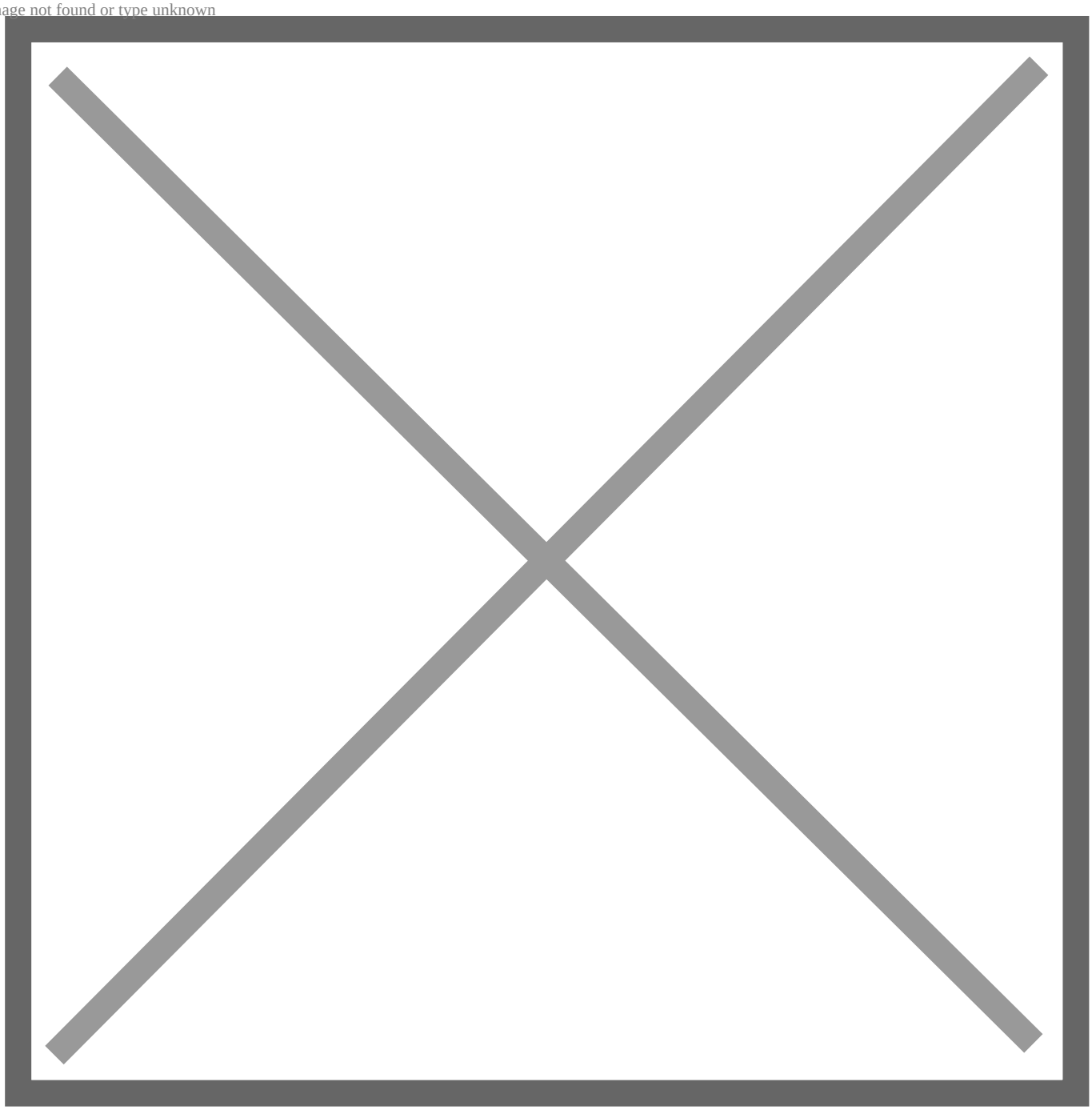
Docker

Docker

Docker

Docker

Image not found or type unknown



- Docker

docker mysql:5.7
mysql:5.7 mysql 5.7 “:”

registry.cn-shenzhen.aliyuncs.com/star7th/showdoc

/ / latest

Image not found or type unknown

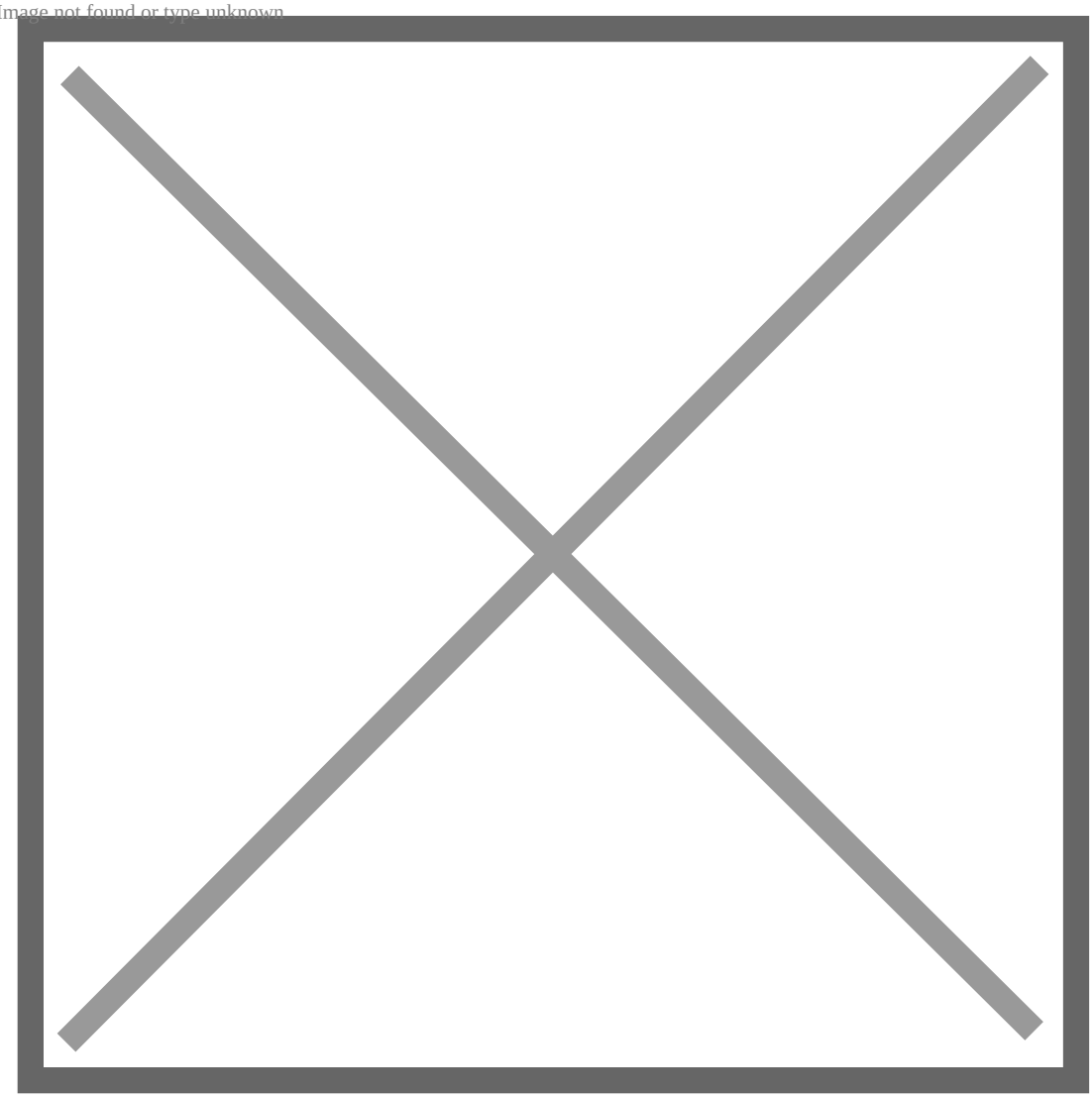
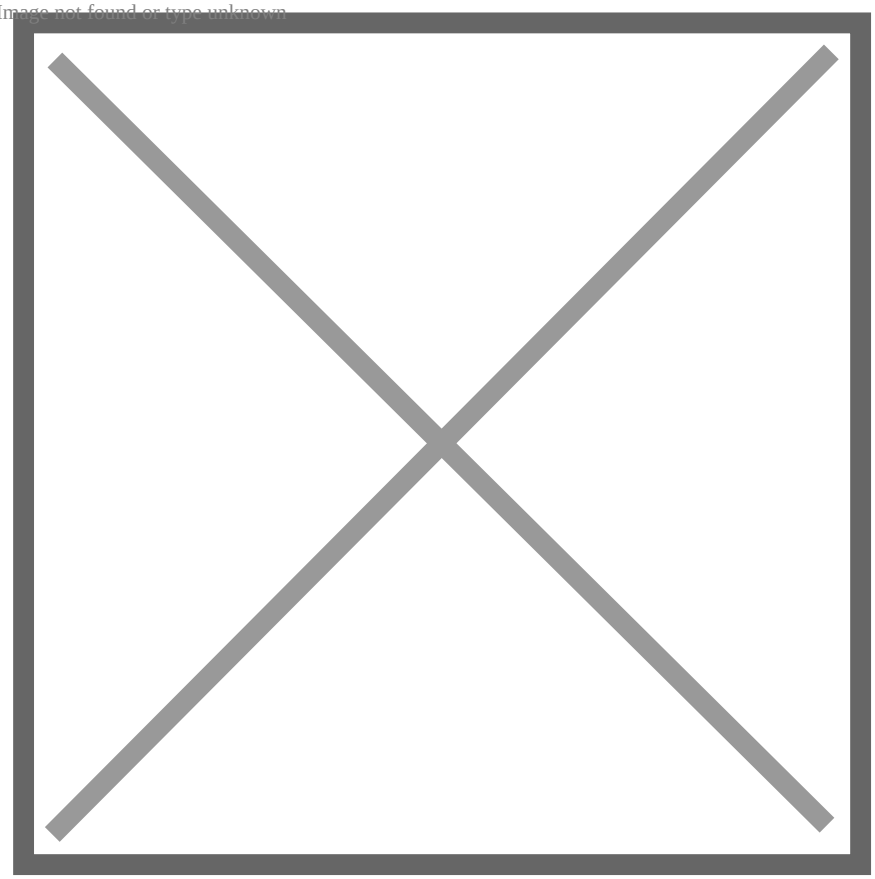


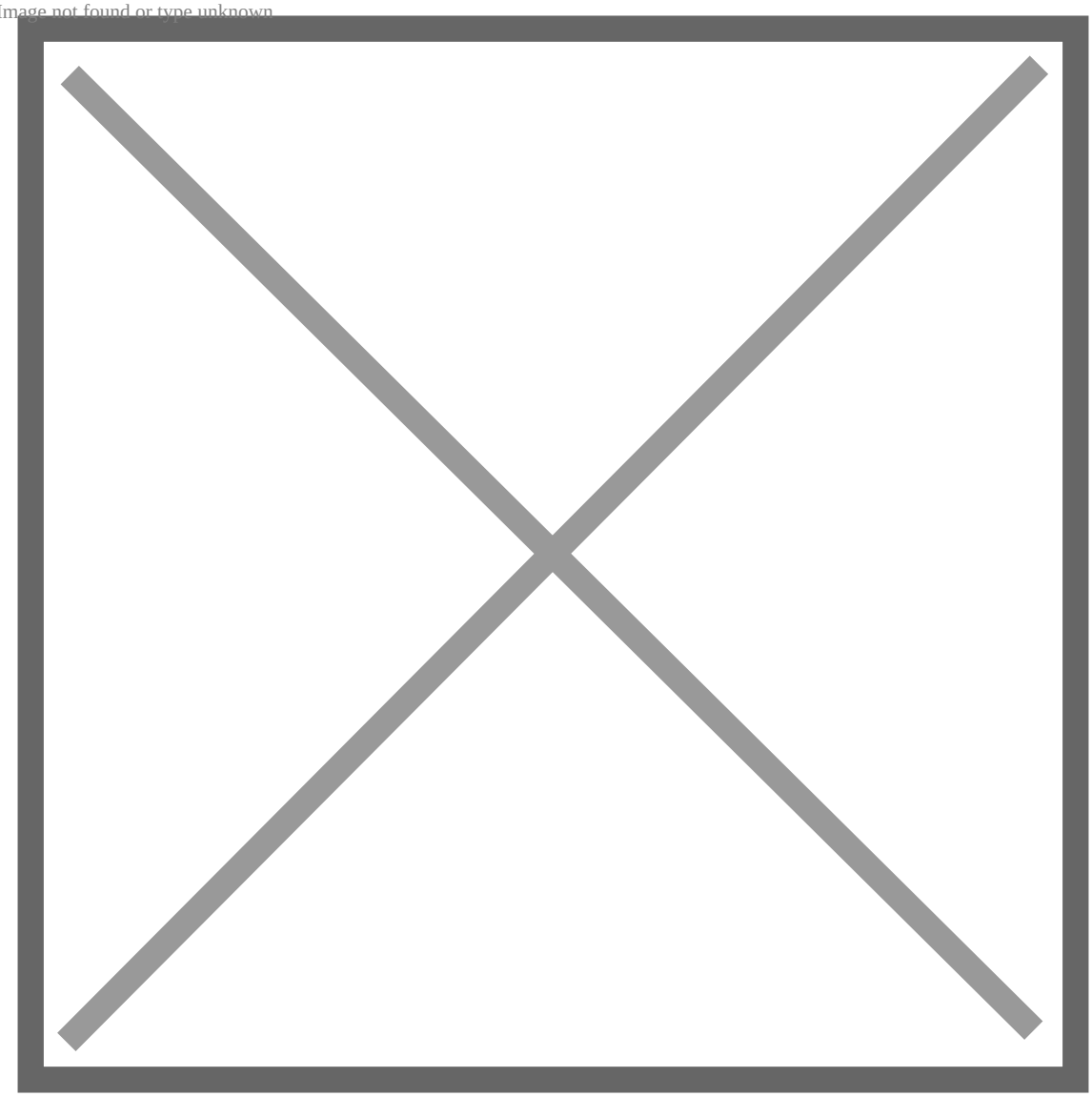
Image not found or type unknown



- Dockerfile

  Dockerfile

Image not found or type unknown



- :

Image not found or type unknown

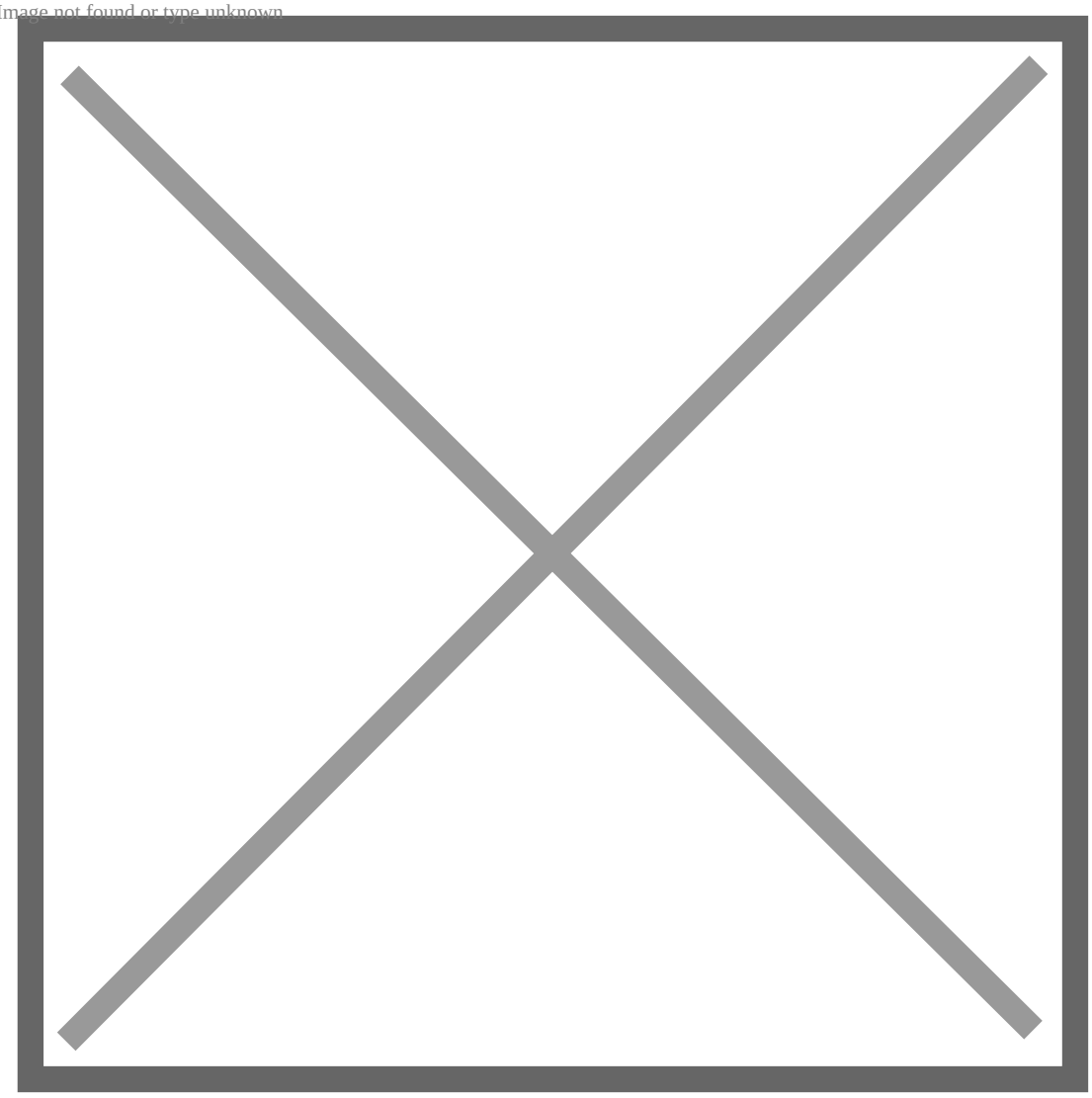
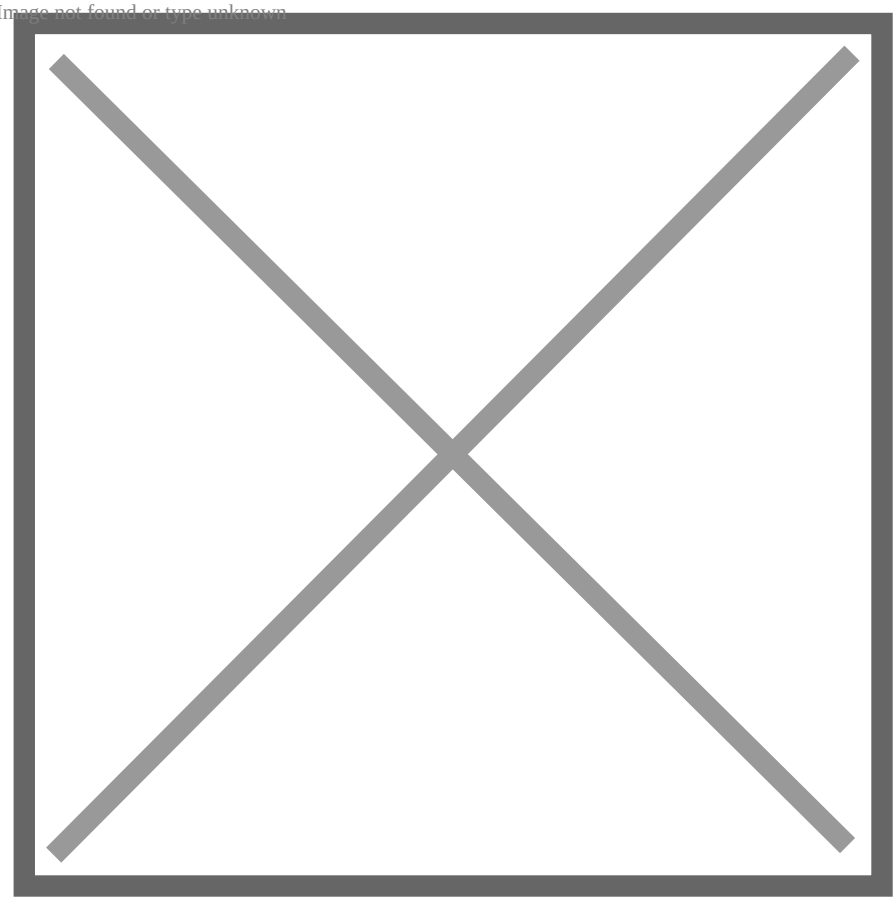
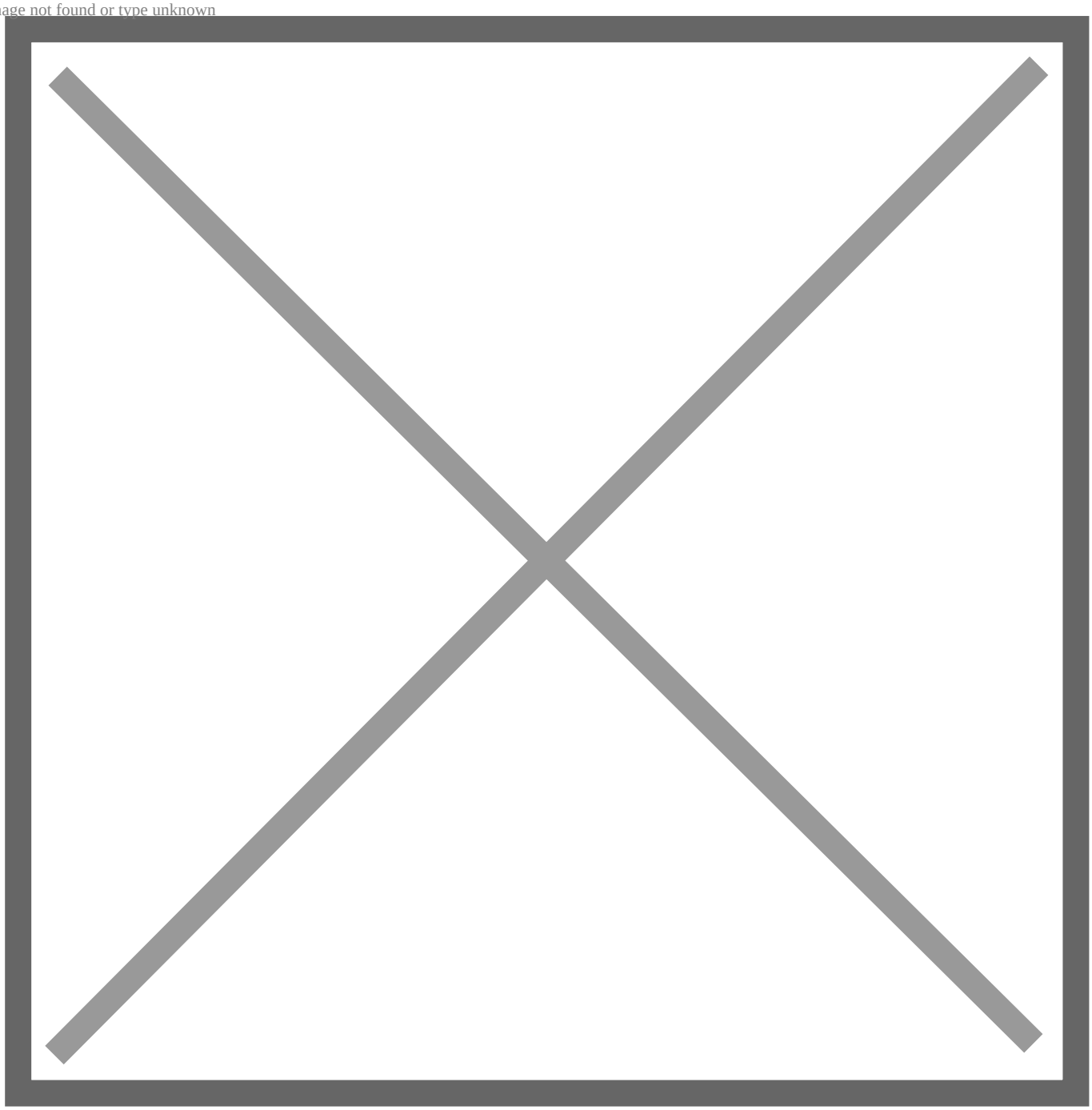


Image not found or type unknown



- ID sha256 ID
- Docker ” / ” ” : ”
-

Image not found or type unknown



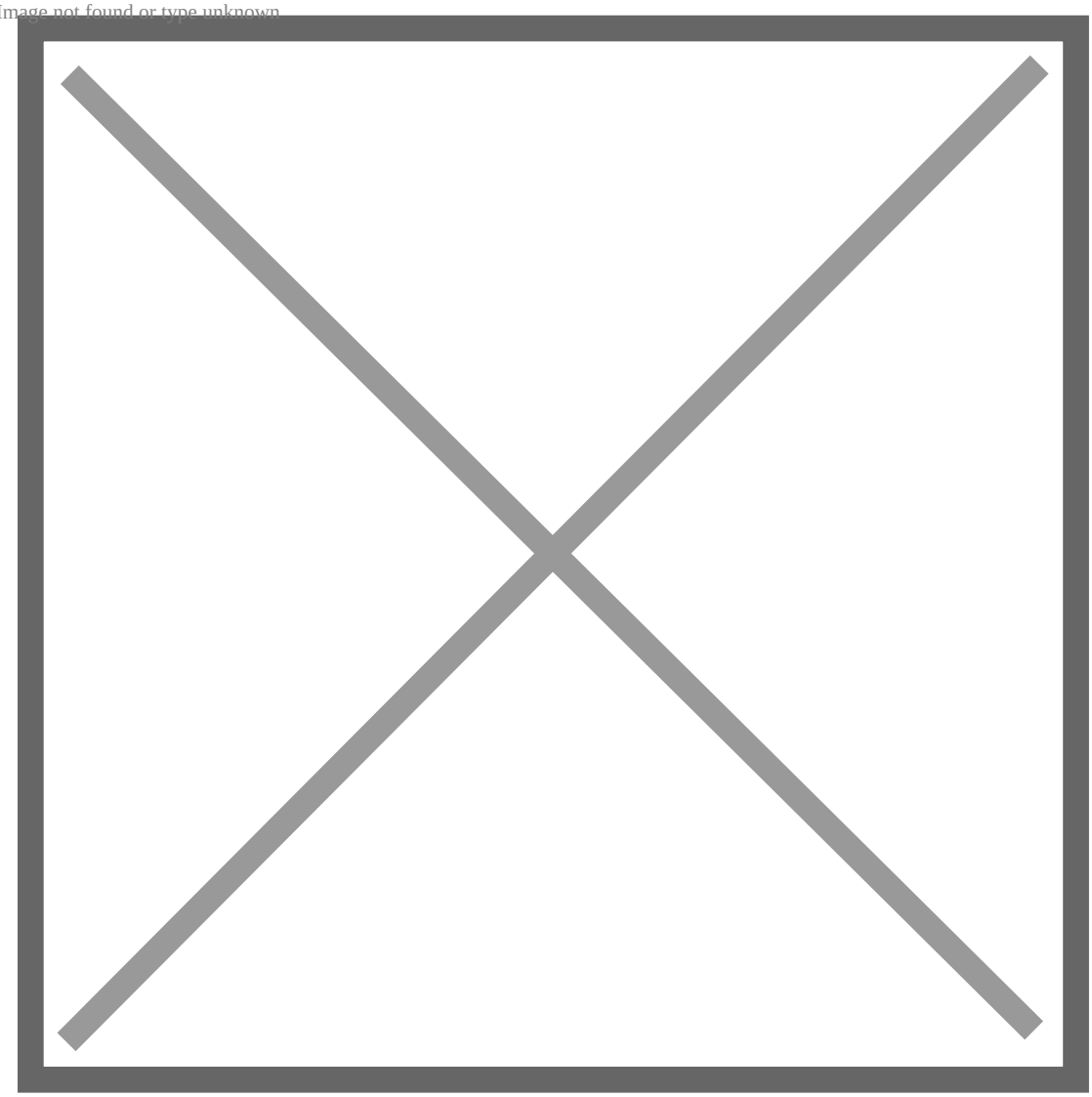
- Compose
  “mysql:5.7”
  :

  1. docker run -d --name mysql_test -p 3361:3306 -v /docker/mysql_data/:/var/lib/mysql/ -e MYSQL_ROOT_PASSWORD=my-passwd mysql:5.7

```
run    mysql:5.7
```

-d
--name mysql_test
-p 3361:3306 3361 3306
-v /docker/mysql_data/:/var/lib/mysql/ /docker/mysql_data/ /var/lib/mysql/
-e MYSQL_ROOT_PASSWORD=my-passwd , MySQL root my-passwd mysql

Image not found or type unknown

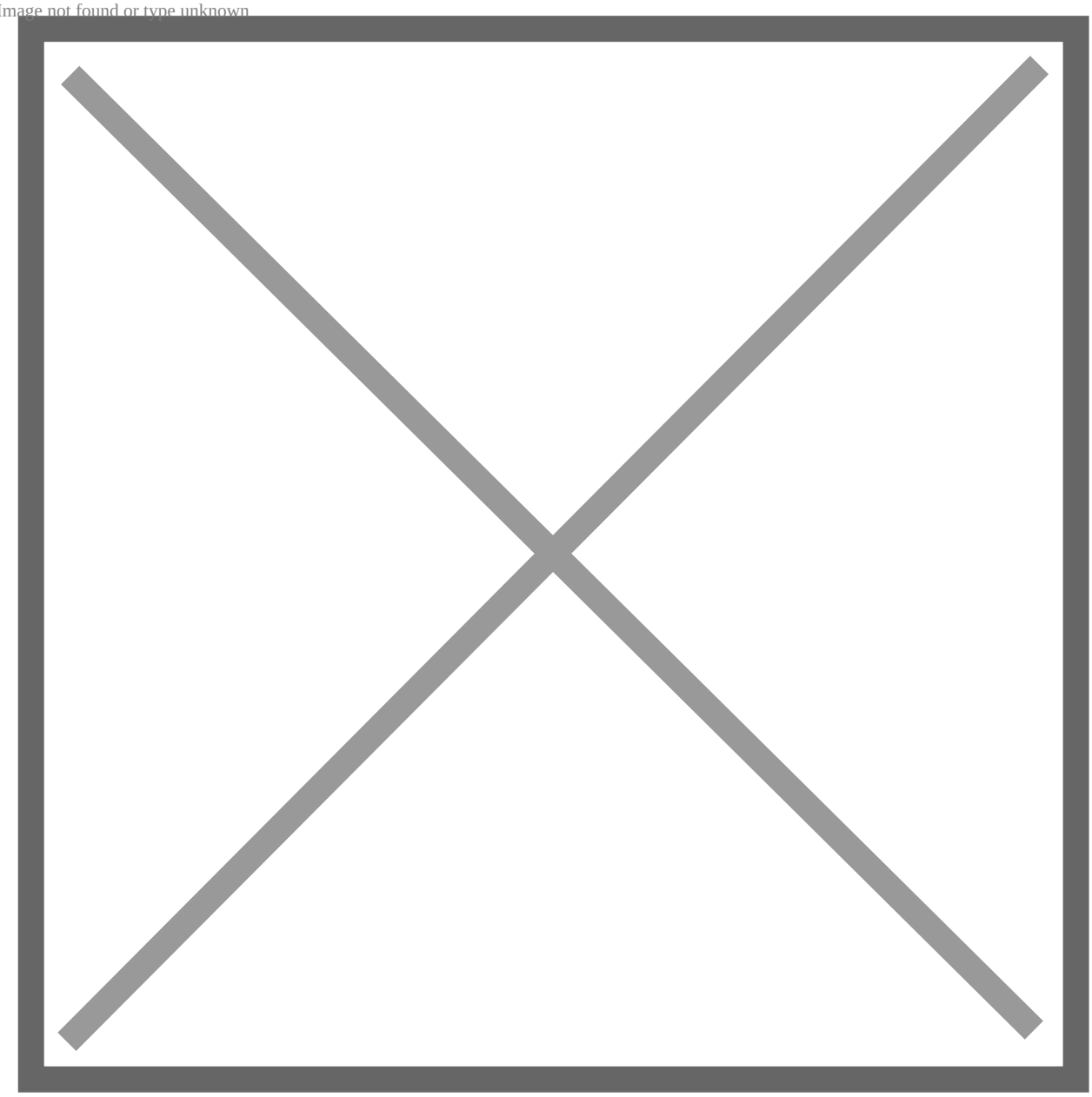


--name
mysql:5.7
-p 3361:3306 +
CPU
-v /docker/mysql_data/:/var/lib/mysql/ “ + ”

-e MYSQL_ROOT_PASSWORD=my-passwd
/ Docker
/ Docker
(5) 5
run -d

- CPU IO IO

Image not found or type unknown



-

Image not found or type unknown

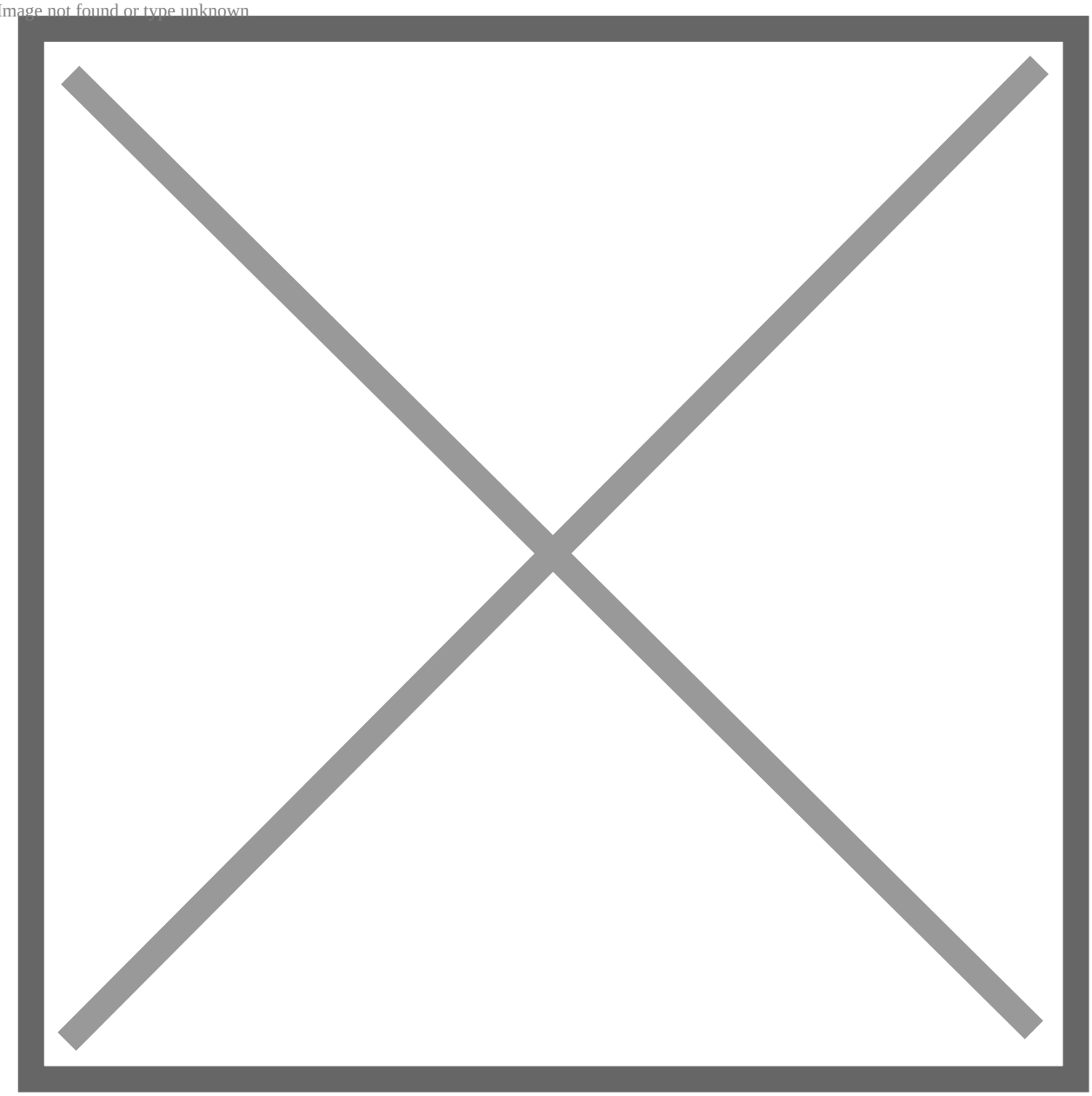


Image not found or type unknown

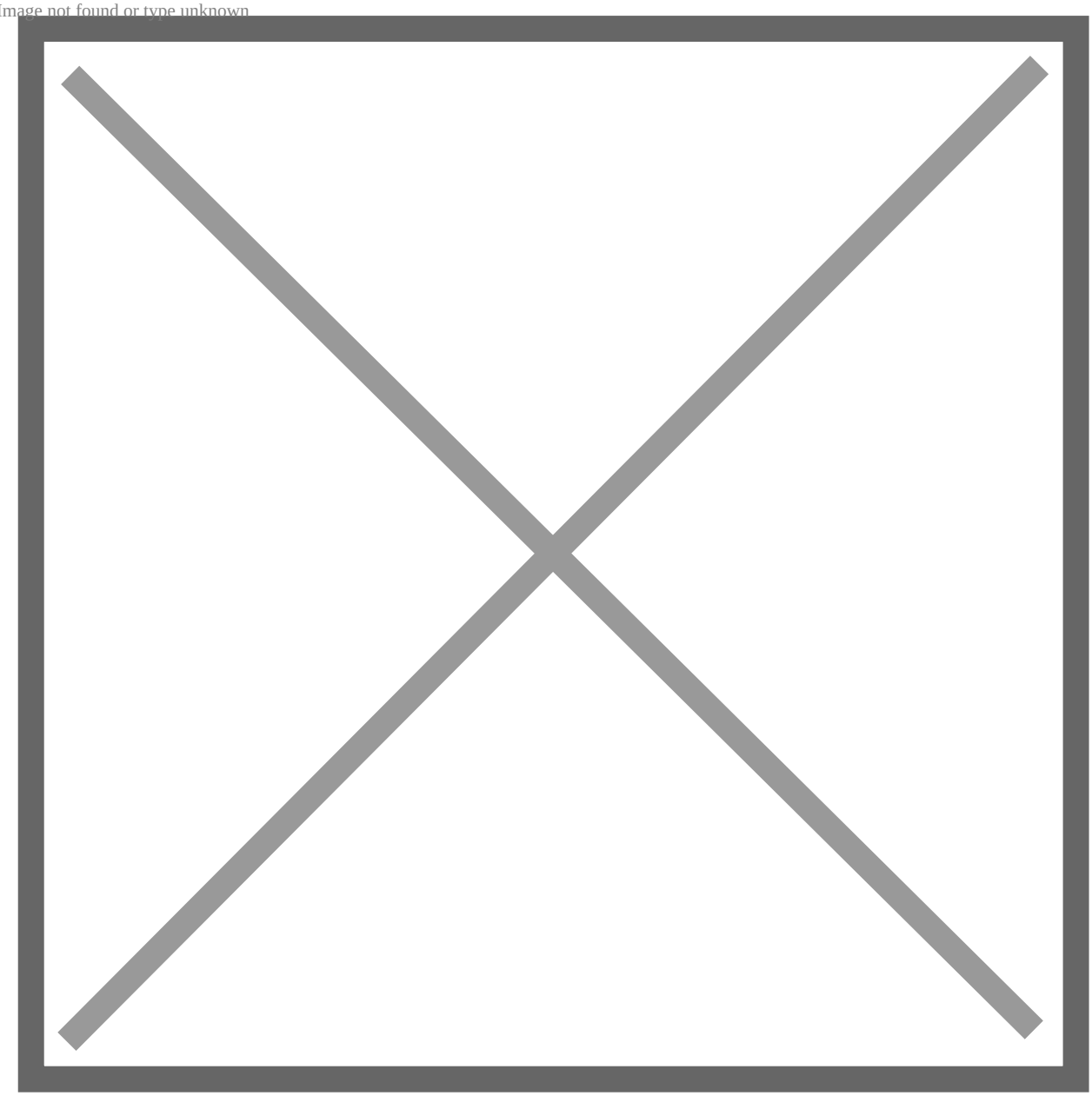
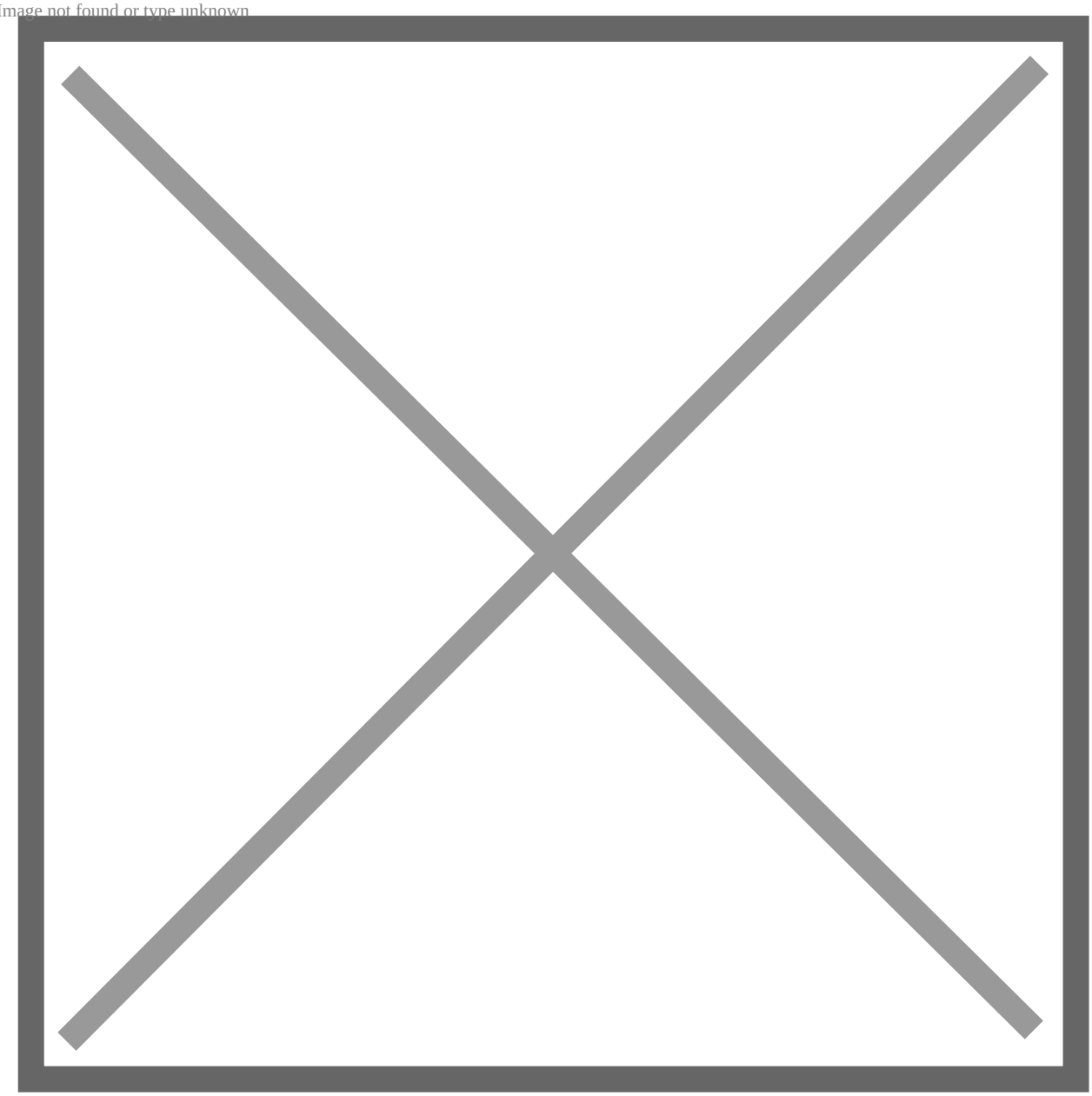


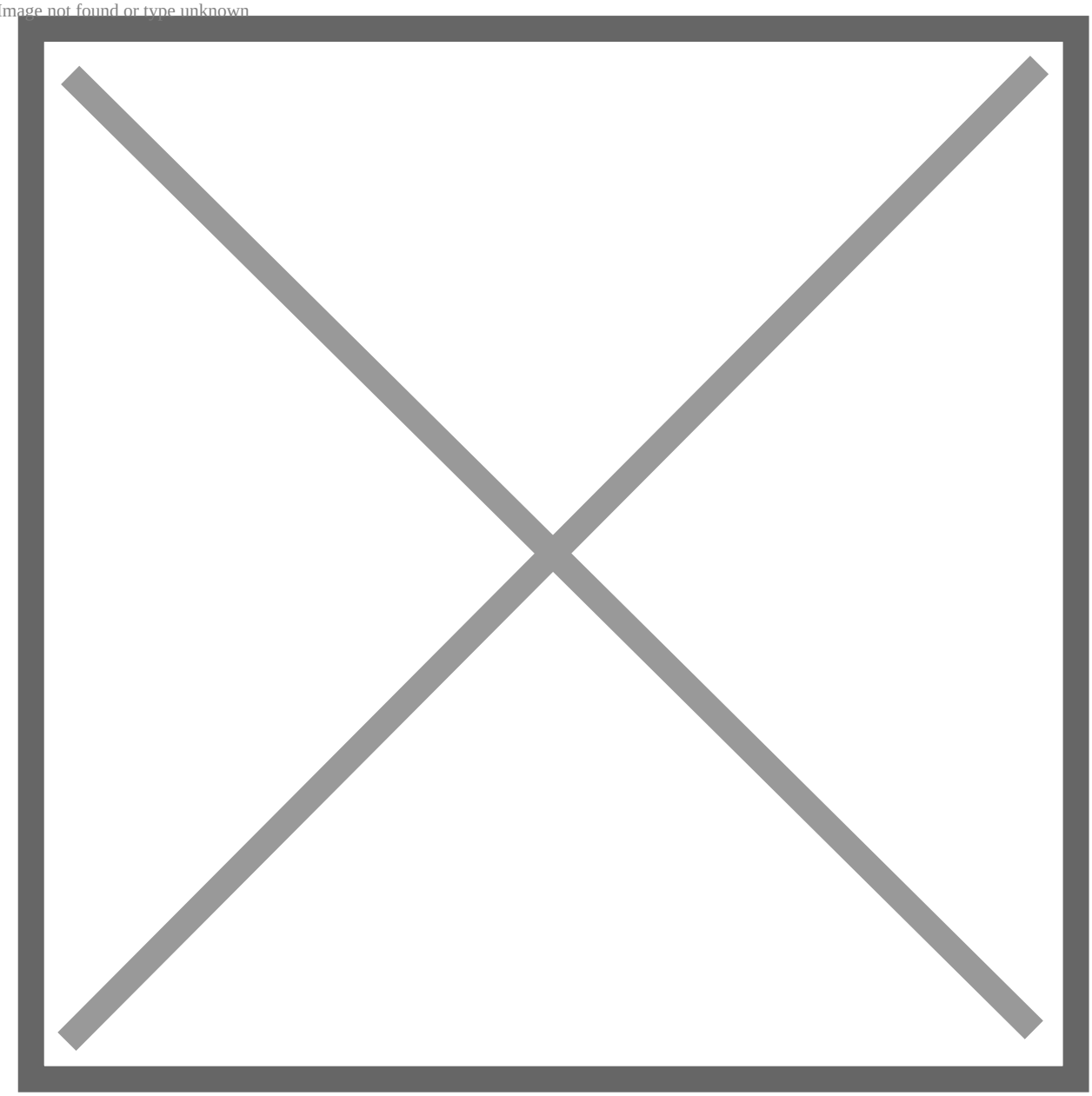
Image not found or type unknown



- “ ” “ ”

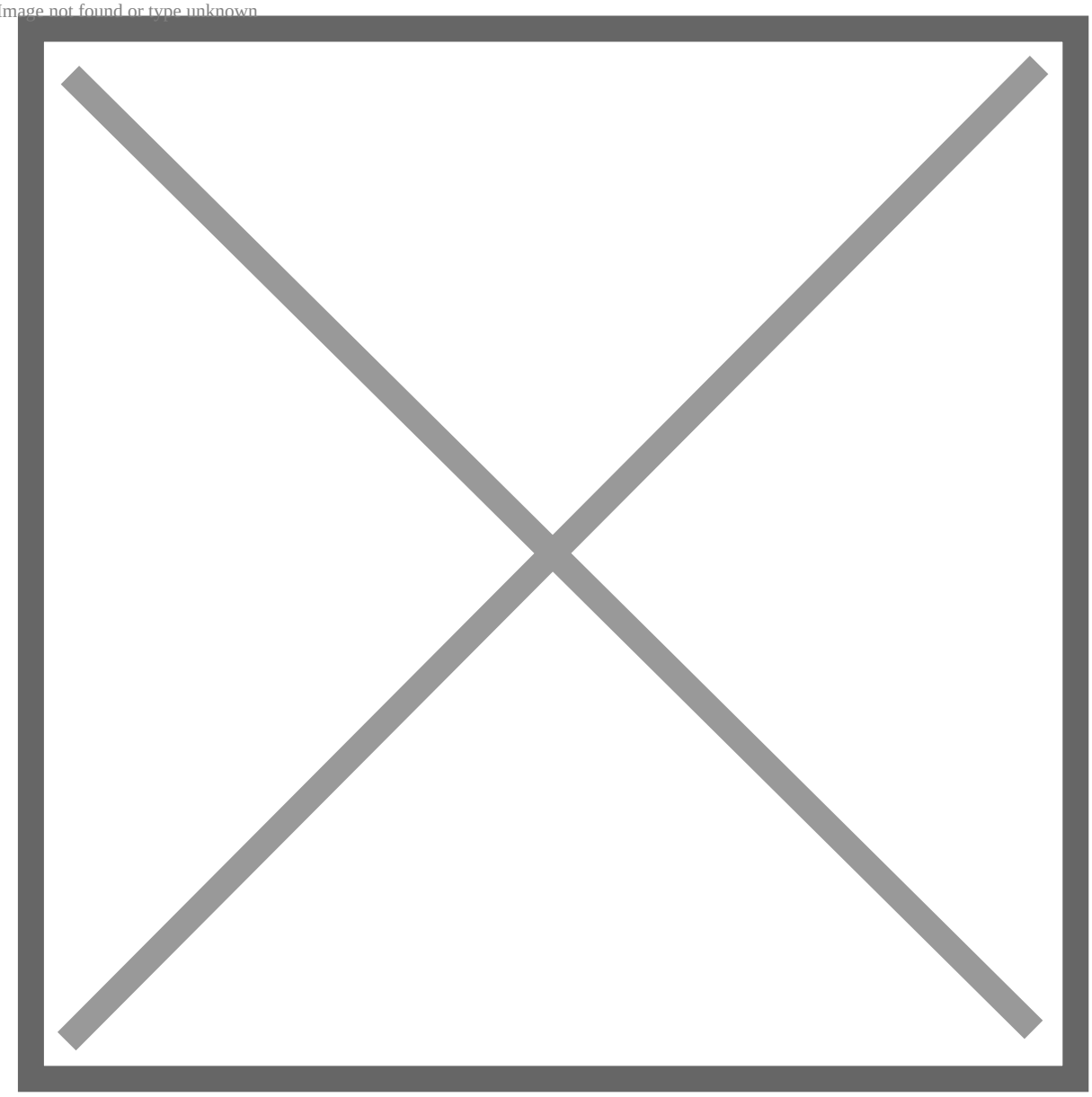
(1) “ ” “…”

Image not found or type unknown



(2)

Image not found or type unknown

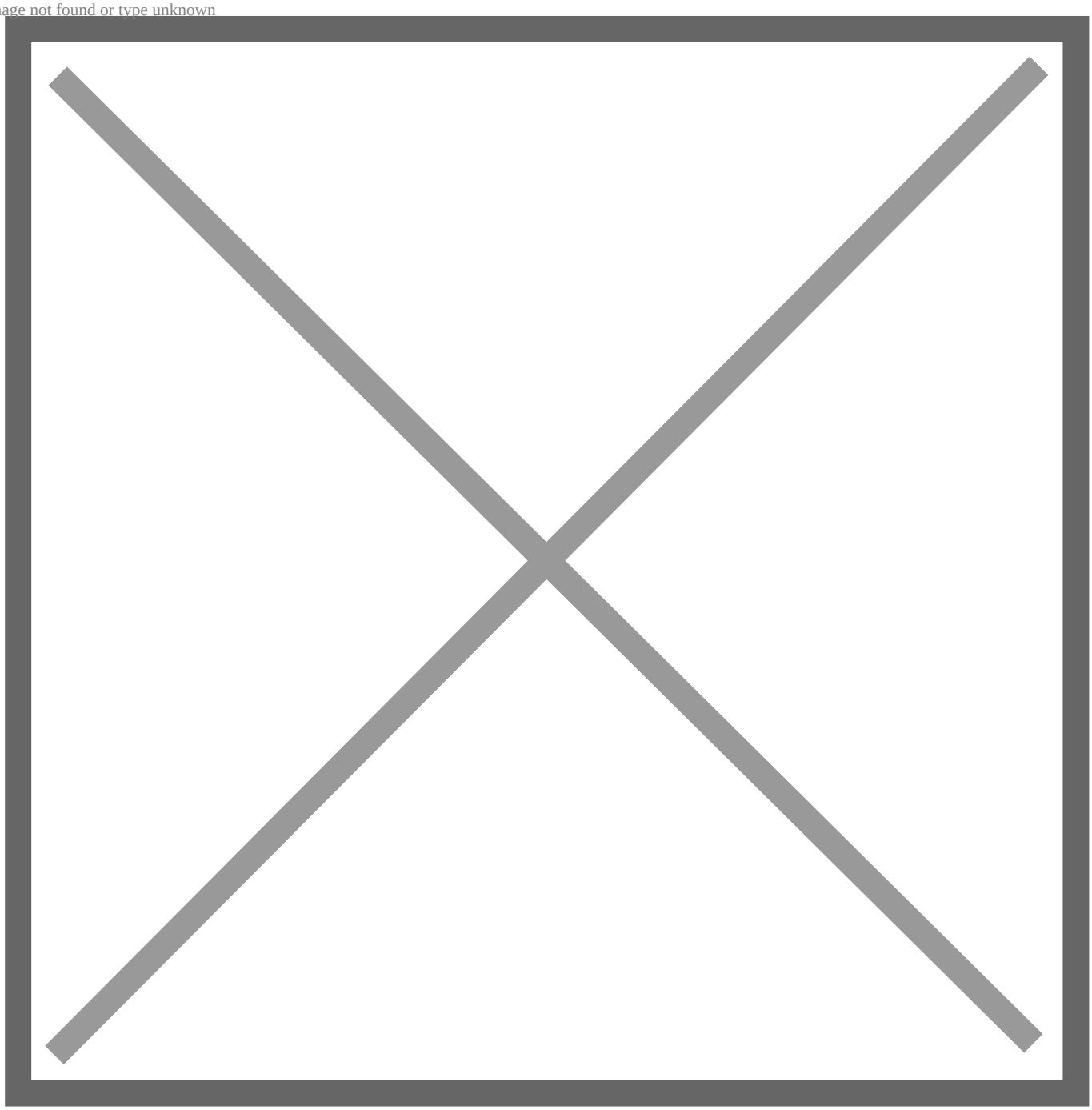


-
- IP IP
- CPU CPU
- (-->)
- 1

Compose

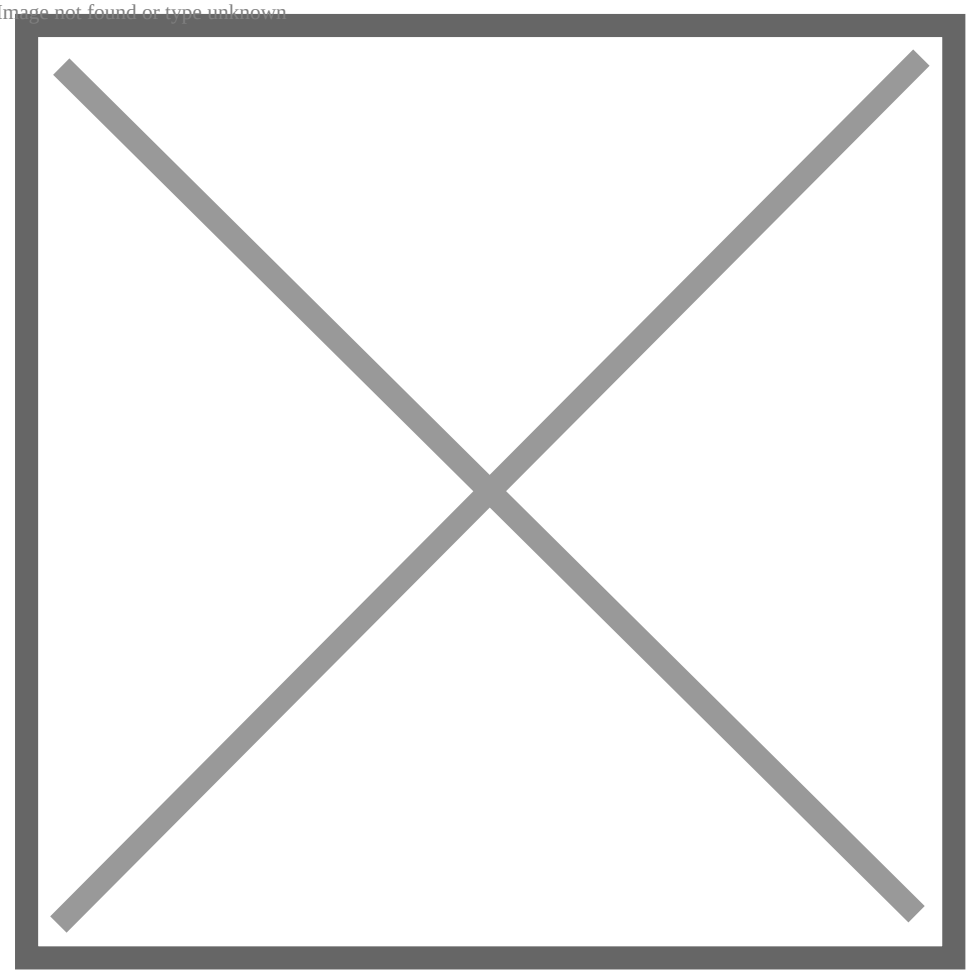
Compose

Image not found or type unknown



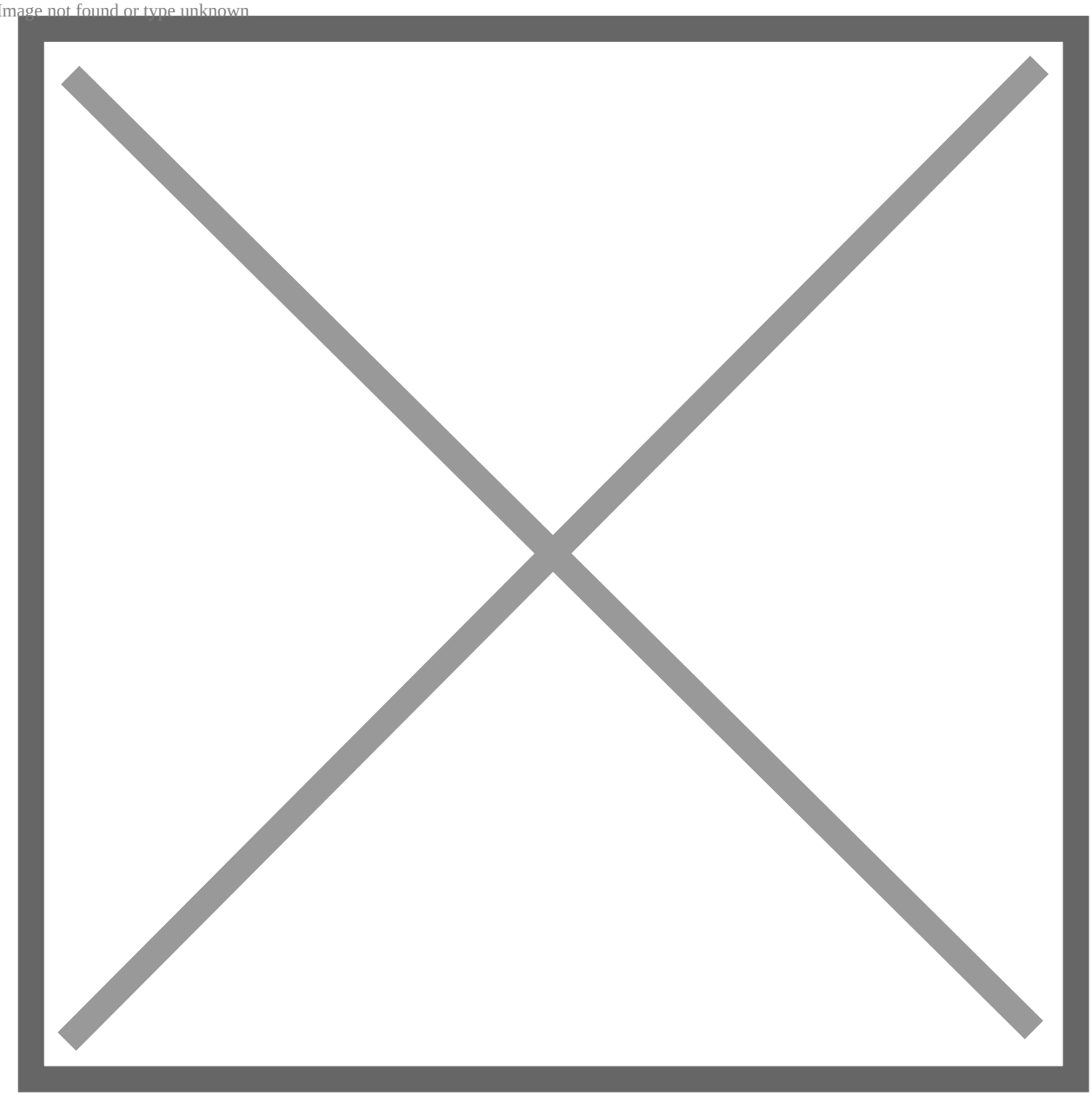
- Compose Compose
  Docker Compose Docker Compose

Image not found or type unknown



- (1) Compose Compose
  (2)
  (3)
  (4)
  (5)
  (6)

Image not found or type unknown

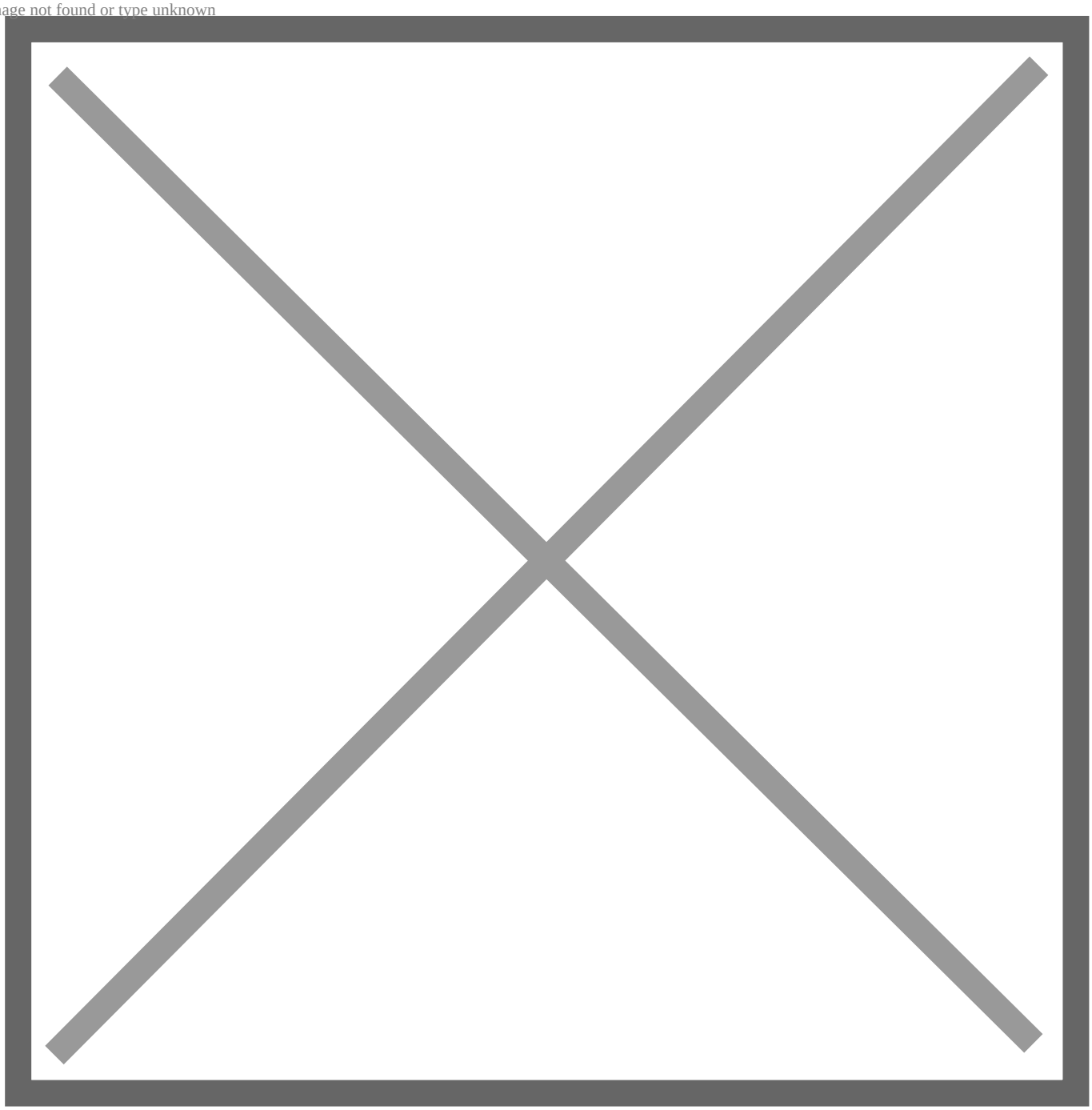


- Compose
- Compose
- 1 Comose

Compose

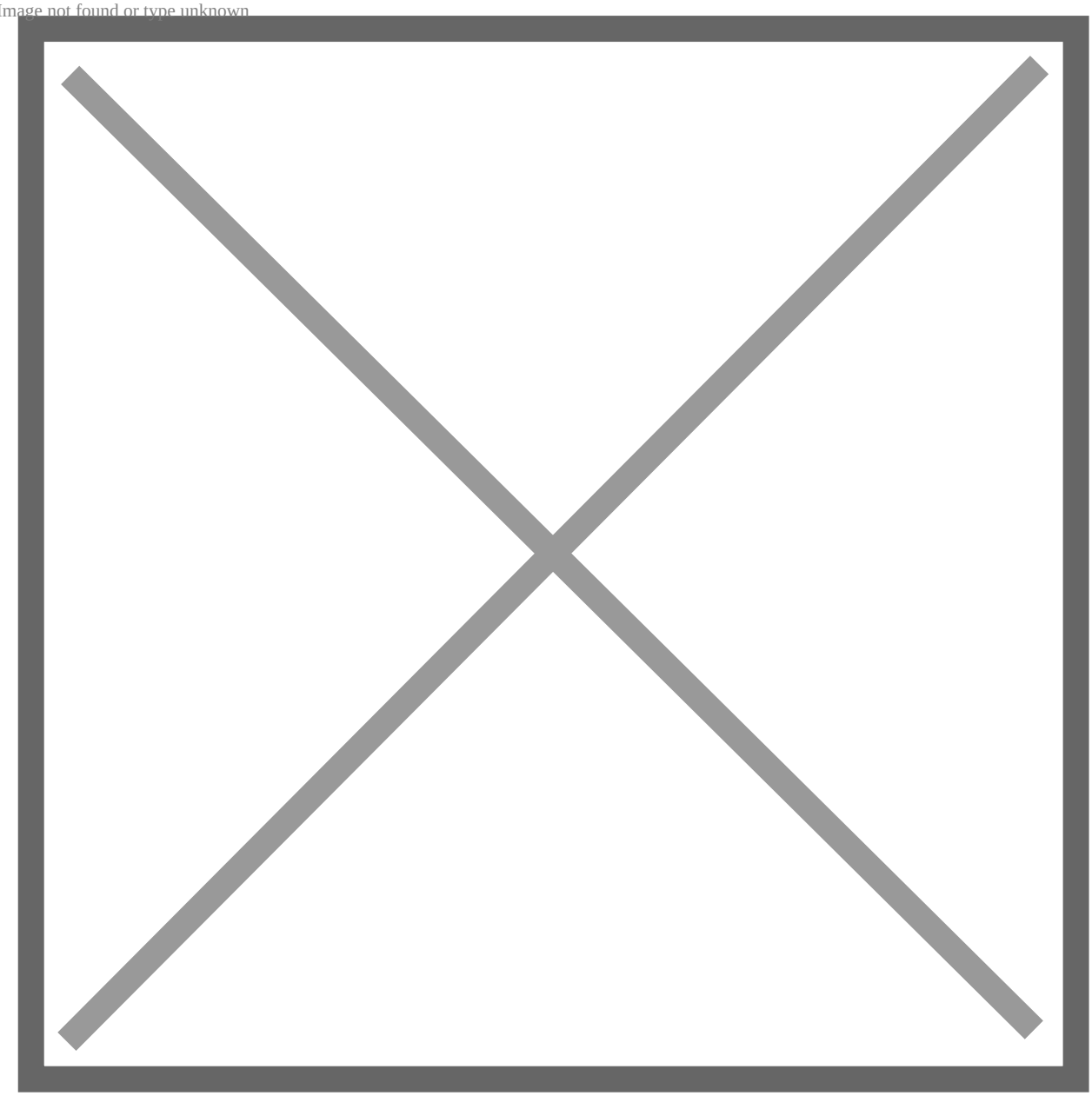
Compose

Image not found or type unknown



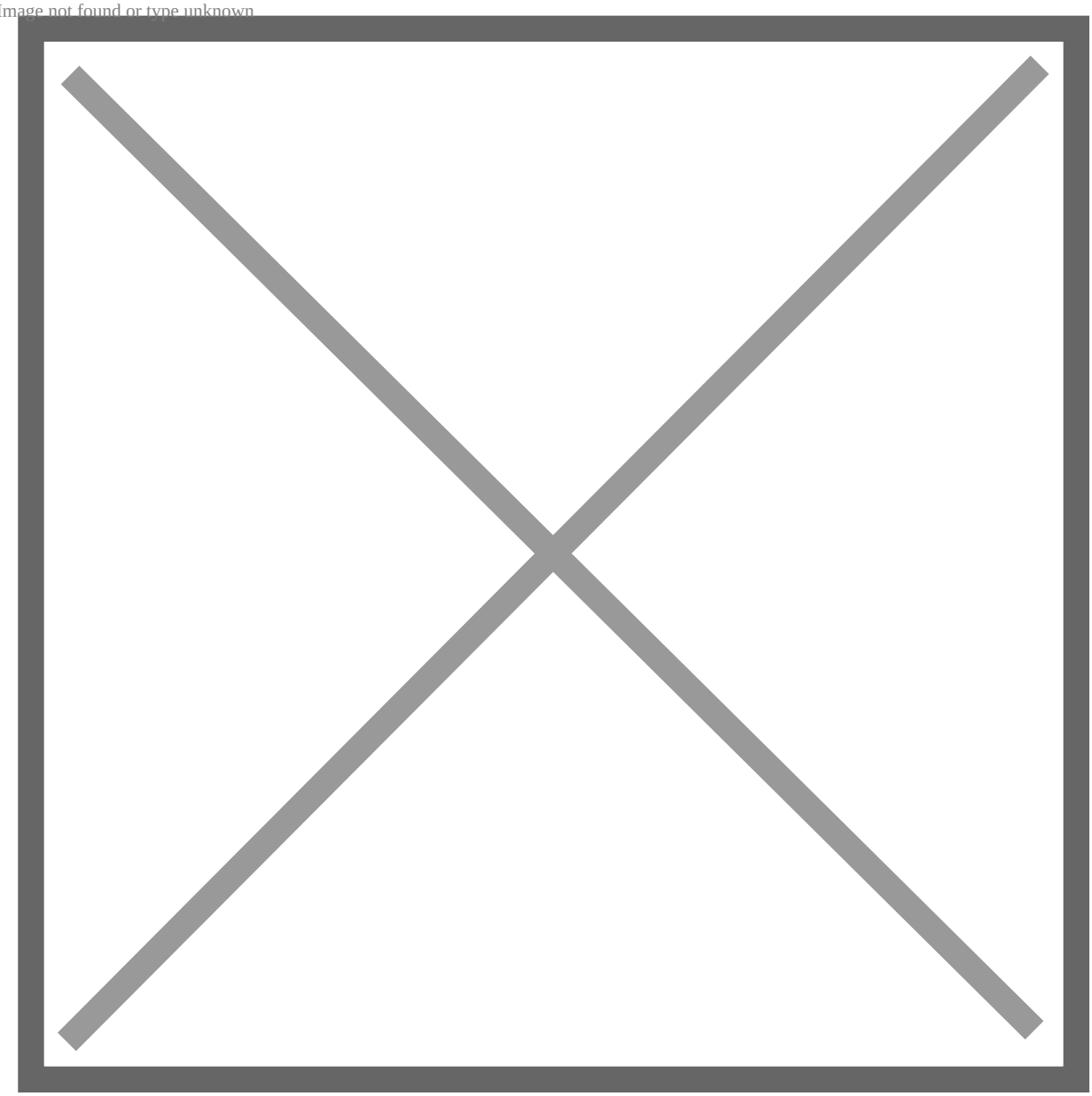
- Compose

Image not found or type unknown



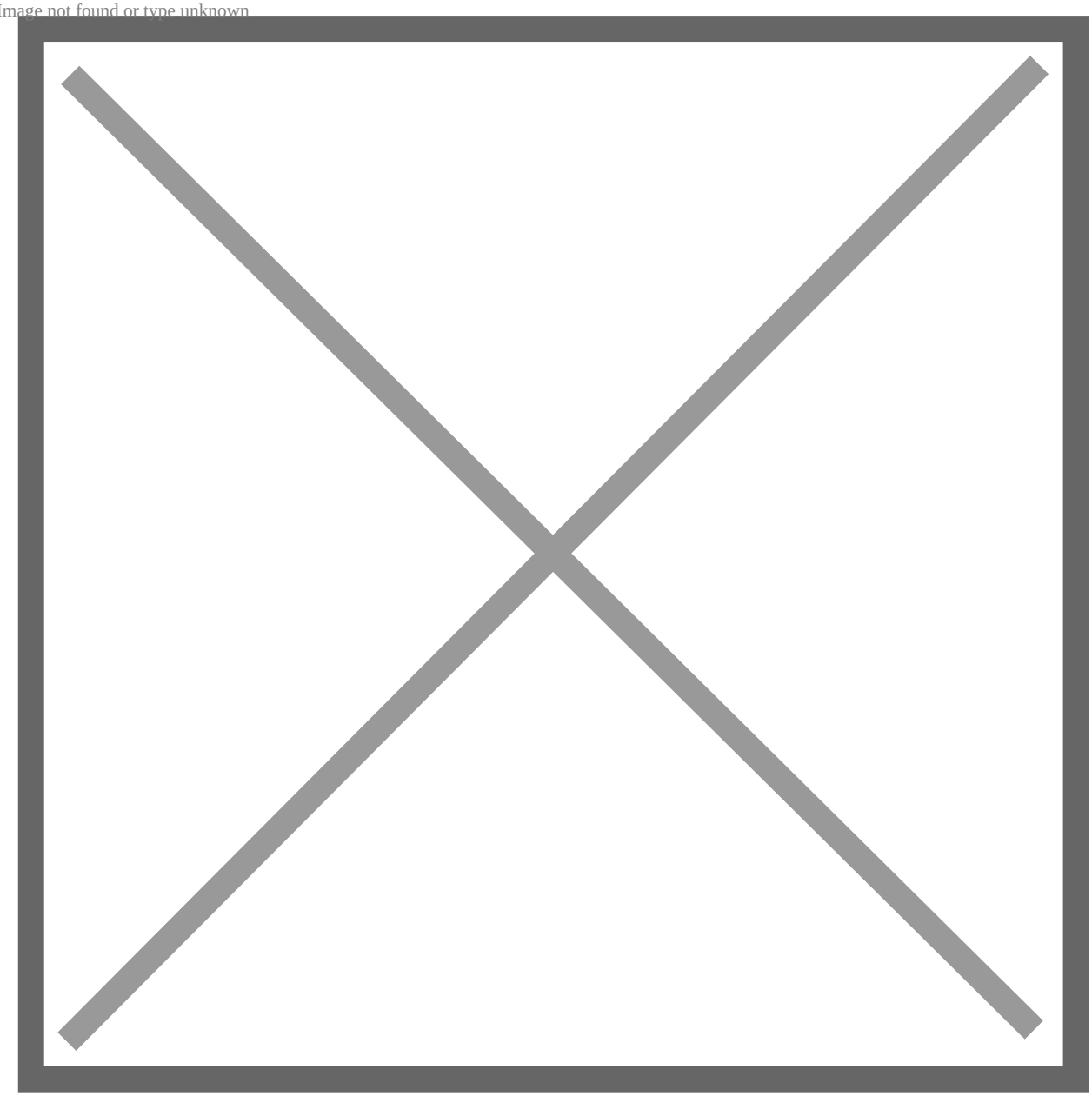
- Compose

Image not found or type unknown



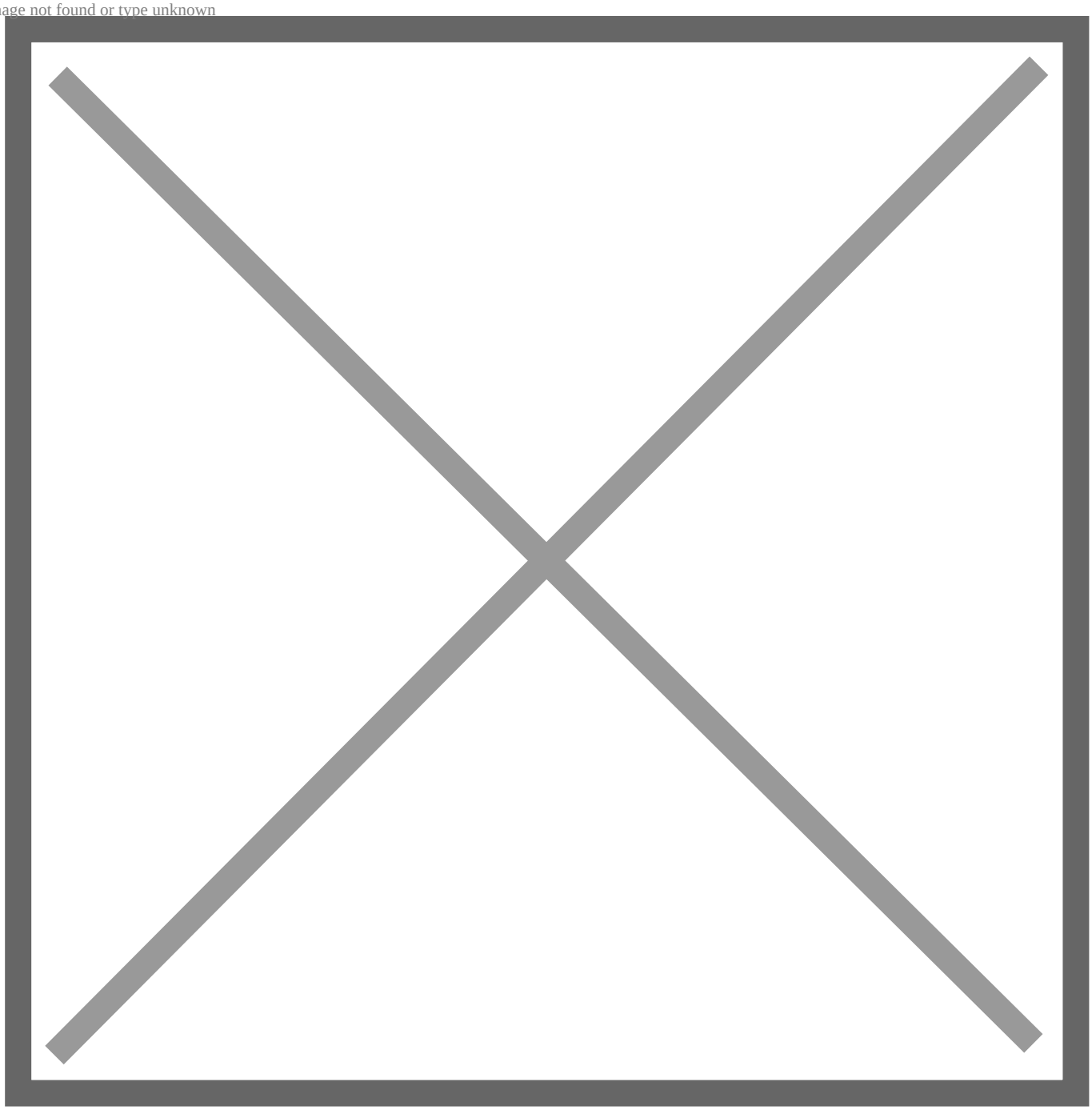
- Compose

Image not found or type unknown



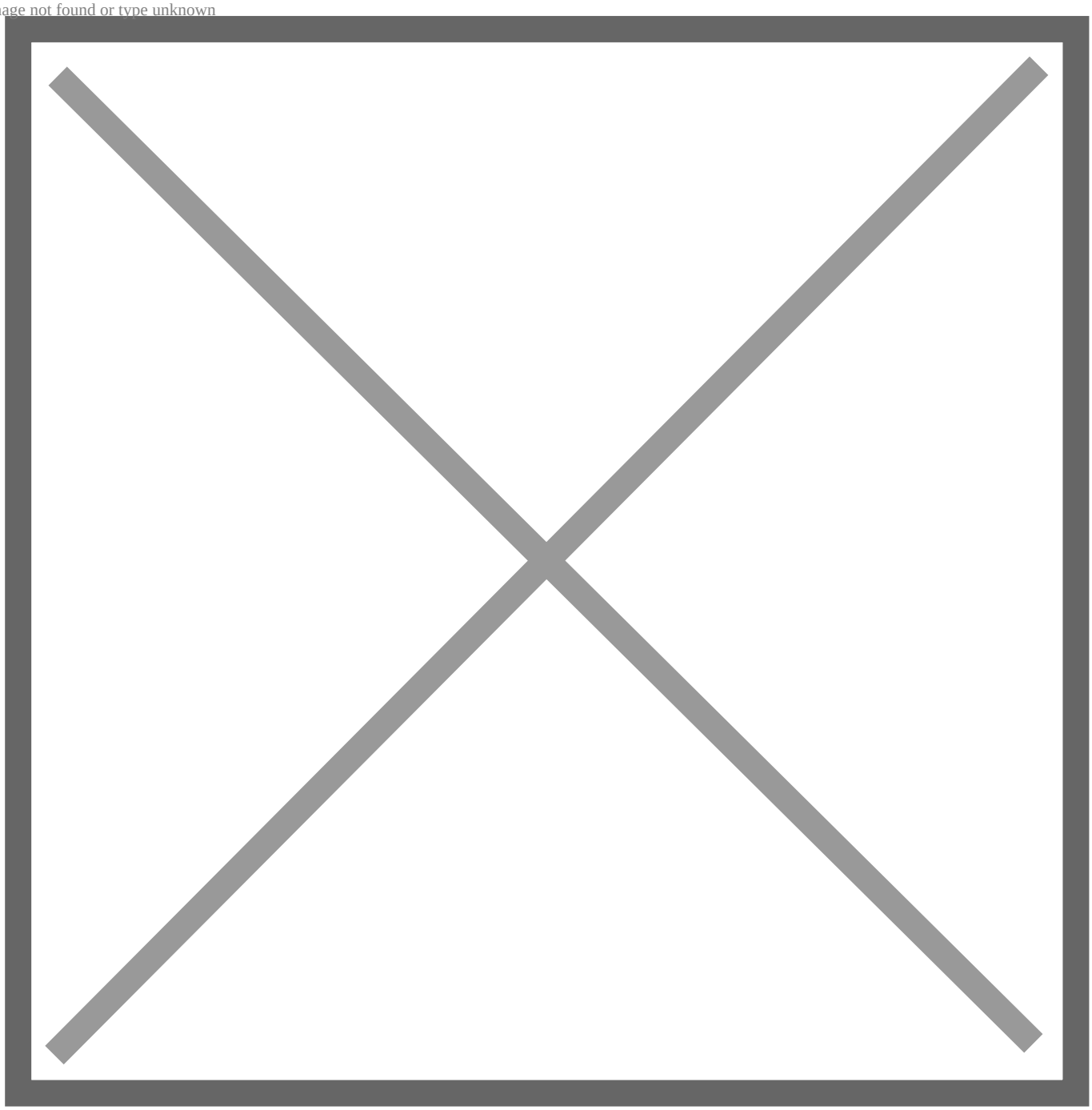
- Compose
- 1 Compose

Image not found or type unknown



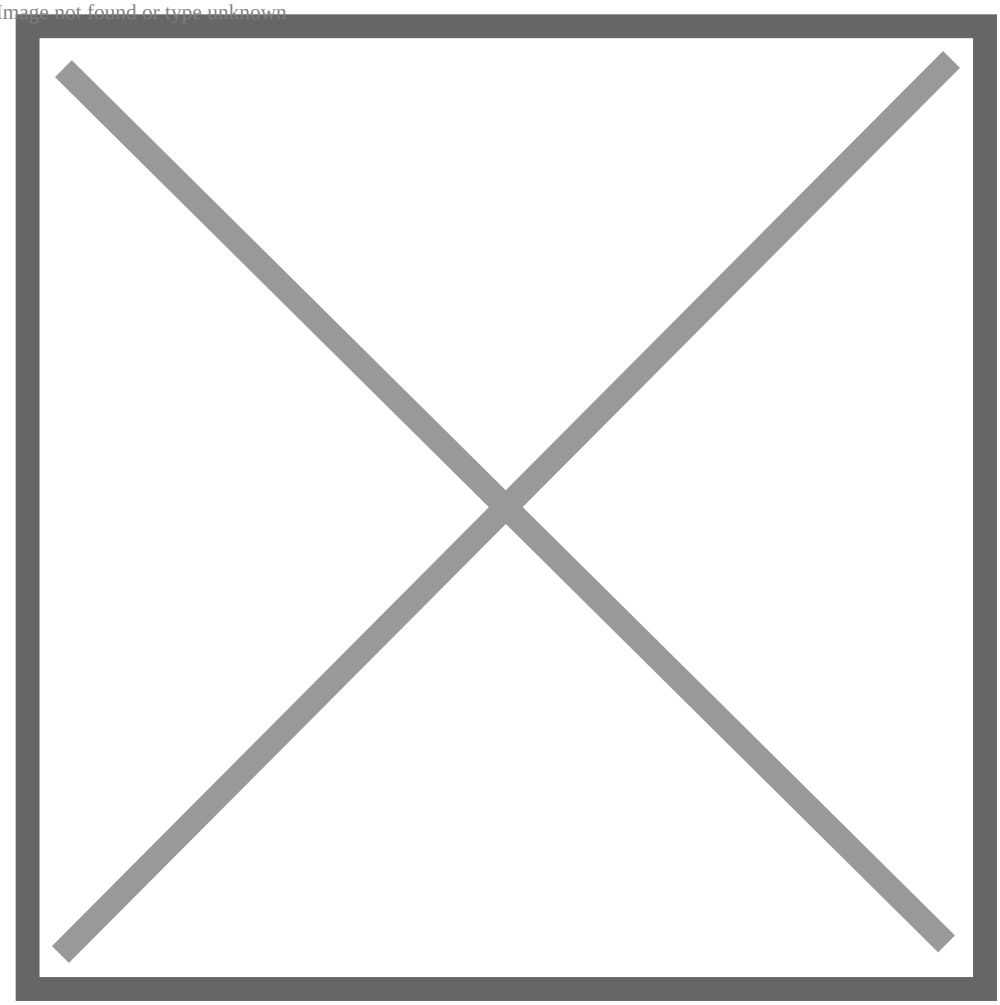
- Docker
-
  (1) none none
  (2) host host
  (3) bridge bridge
- IP
- IP
- 1

Image not found or type unknown



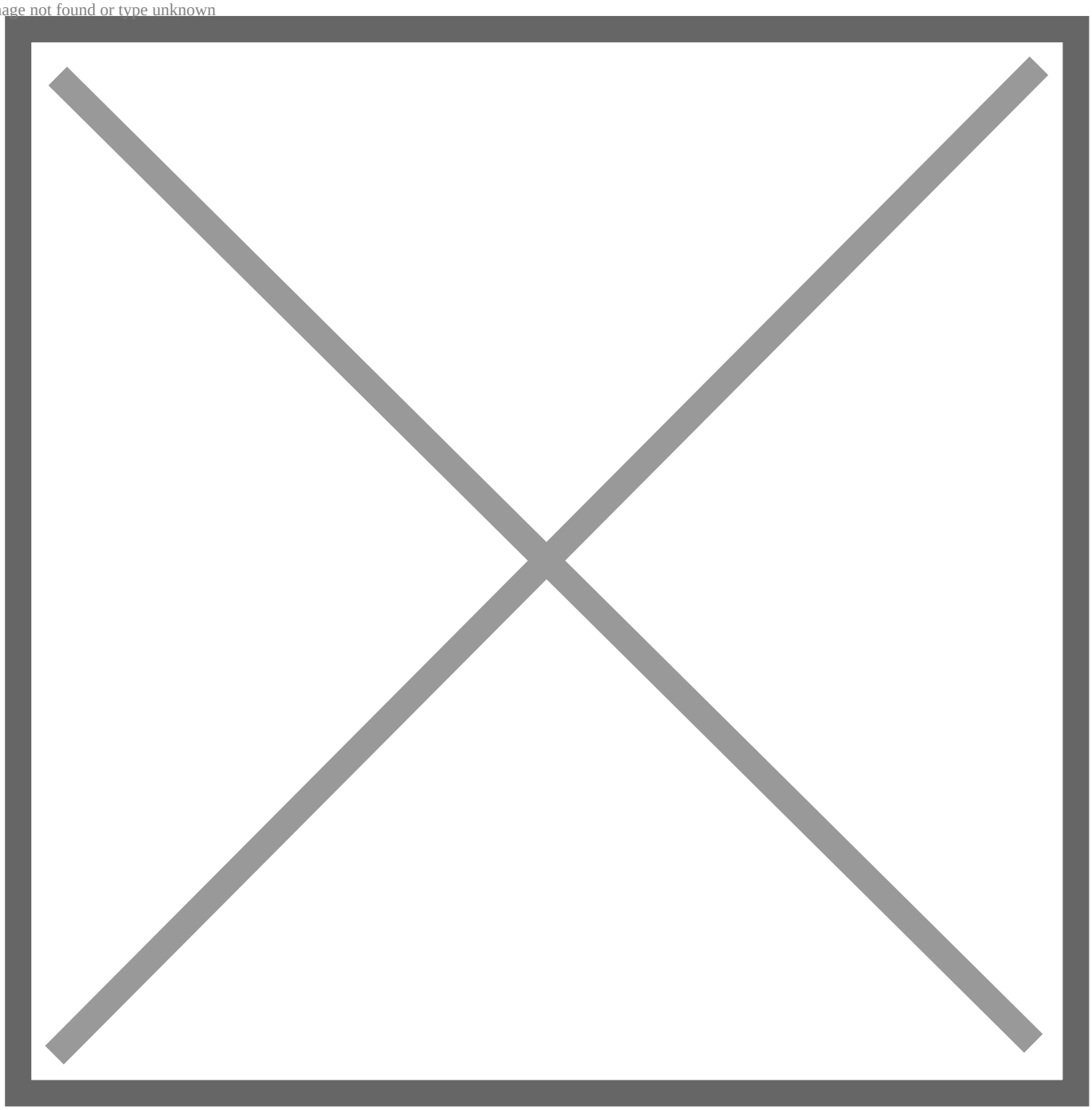
-

Image not found or type unknown



- 1

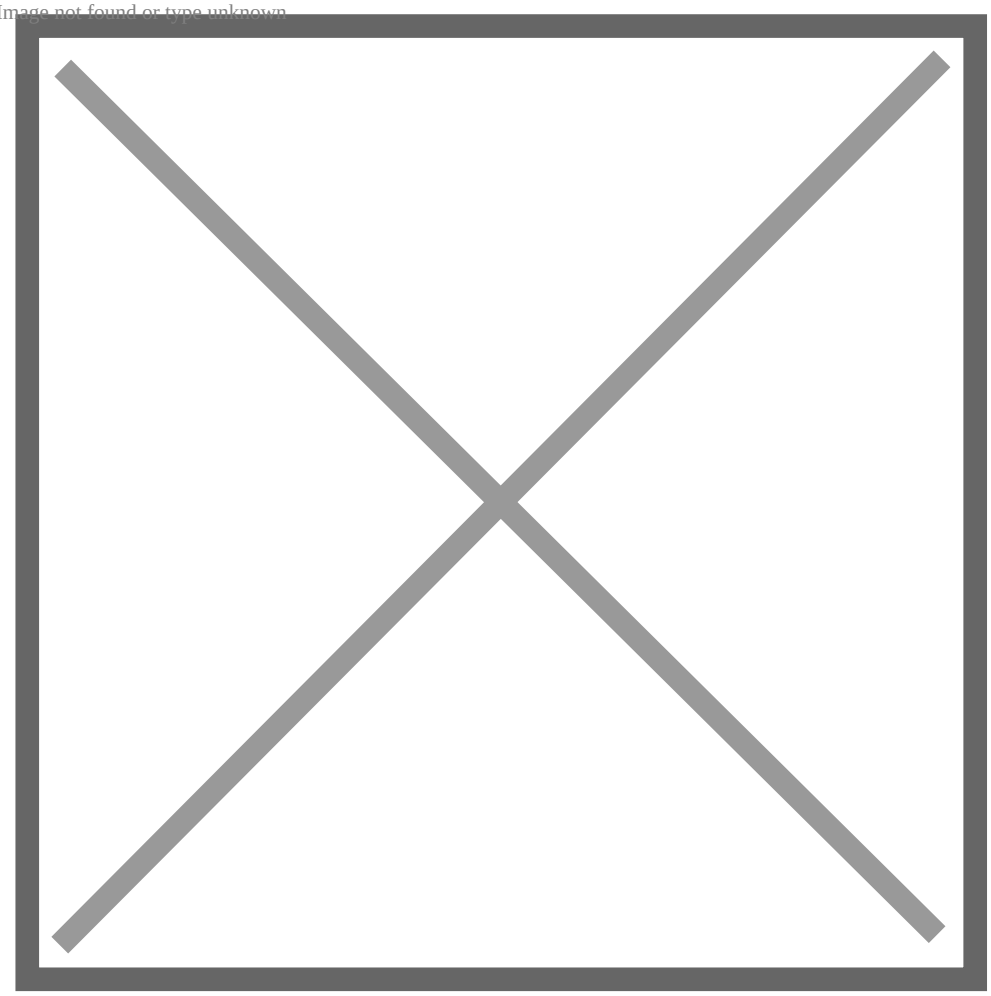
Image not found or type unknown



- docker

docker

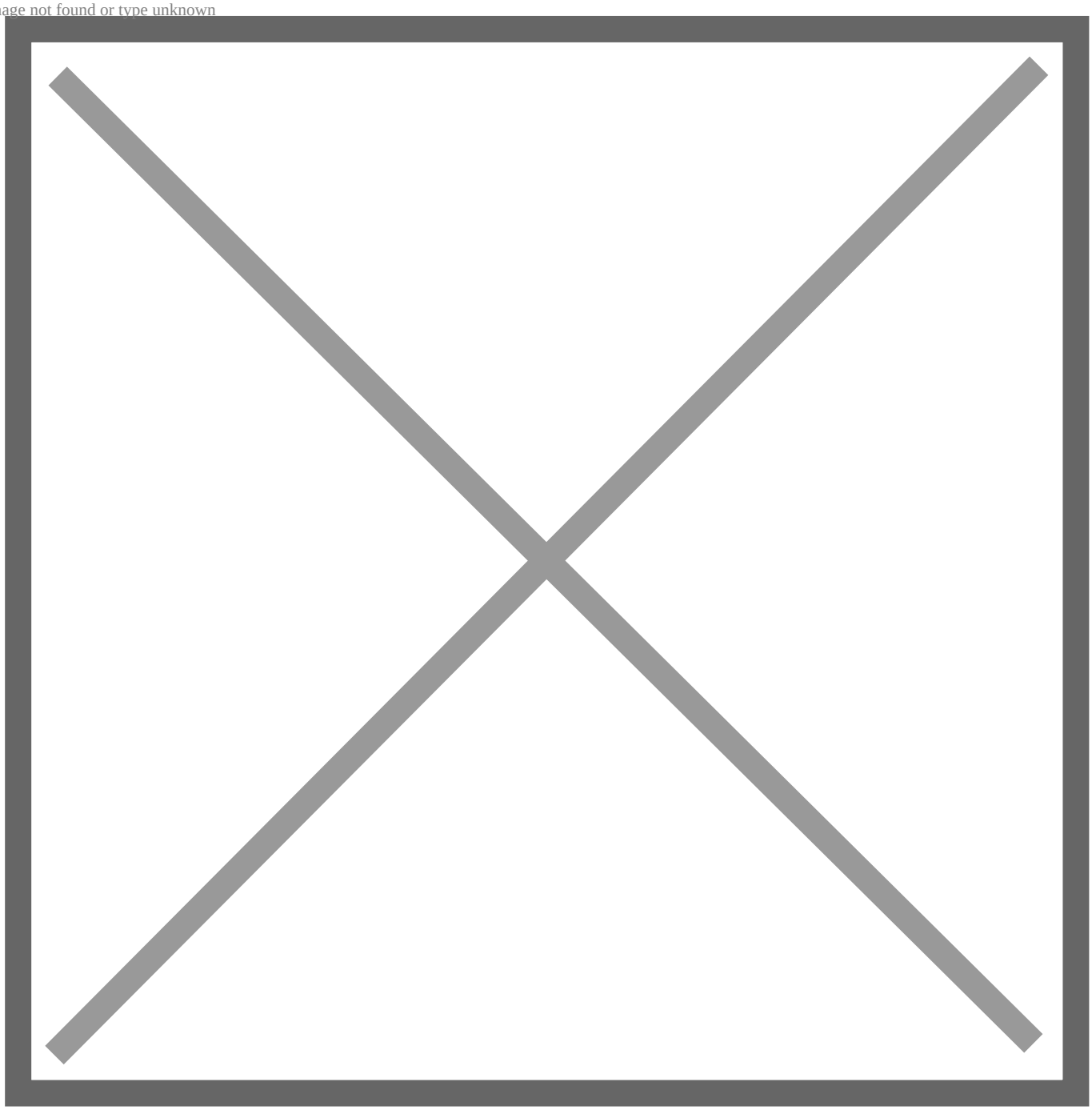
Image not found or type unknown



https://www.bt.cn/bbs/thread-80965-1-1.html

- URL
- /
- 1

Image not found or type unknown



- Docker Docker Docker
- CPU
- 30
- URL URL Docker Docker URL

1. https://docker.mirrors.ustc.edu.cn/

1. https://hub-mirror.c.163.com/

https://cr.console.aliyun.com/

Docker ---2022/7/5

CentOS7.9.2009 x86_64 3.10.0
7.9.2
Python 3.7.9

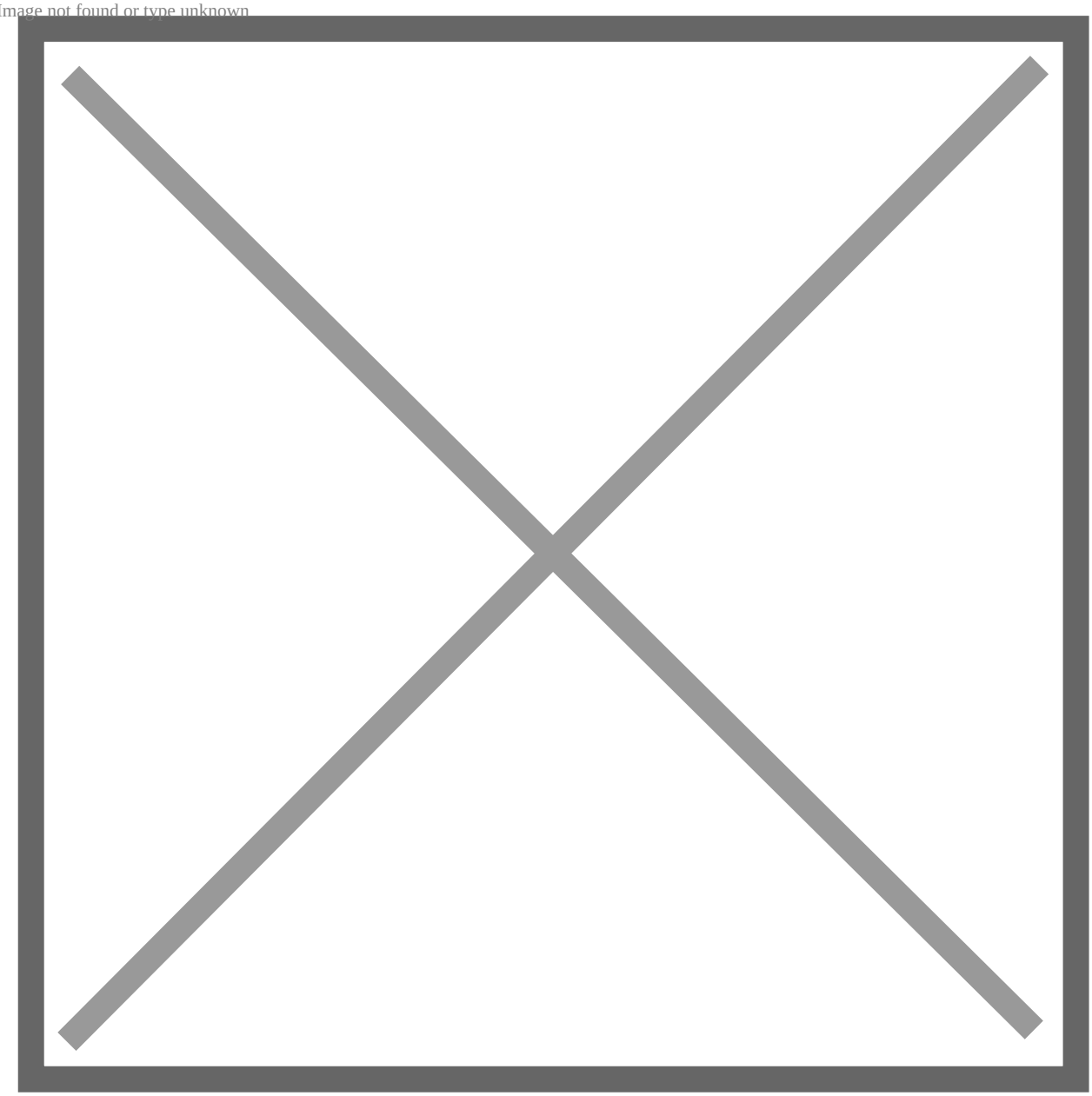
Docker Dockerfile t

Dockerfile tomcat

-

/www/mydockerfile/tomcat dockerfile apptest tomcat jdk

Image not found or type unknown

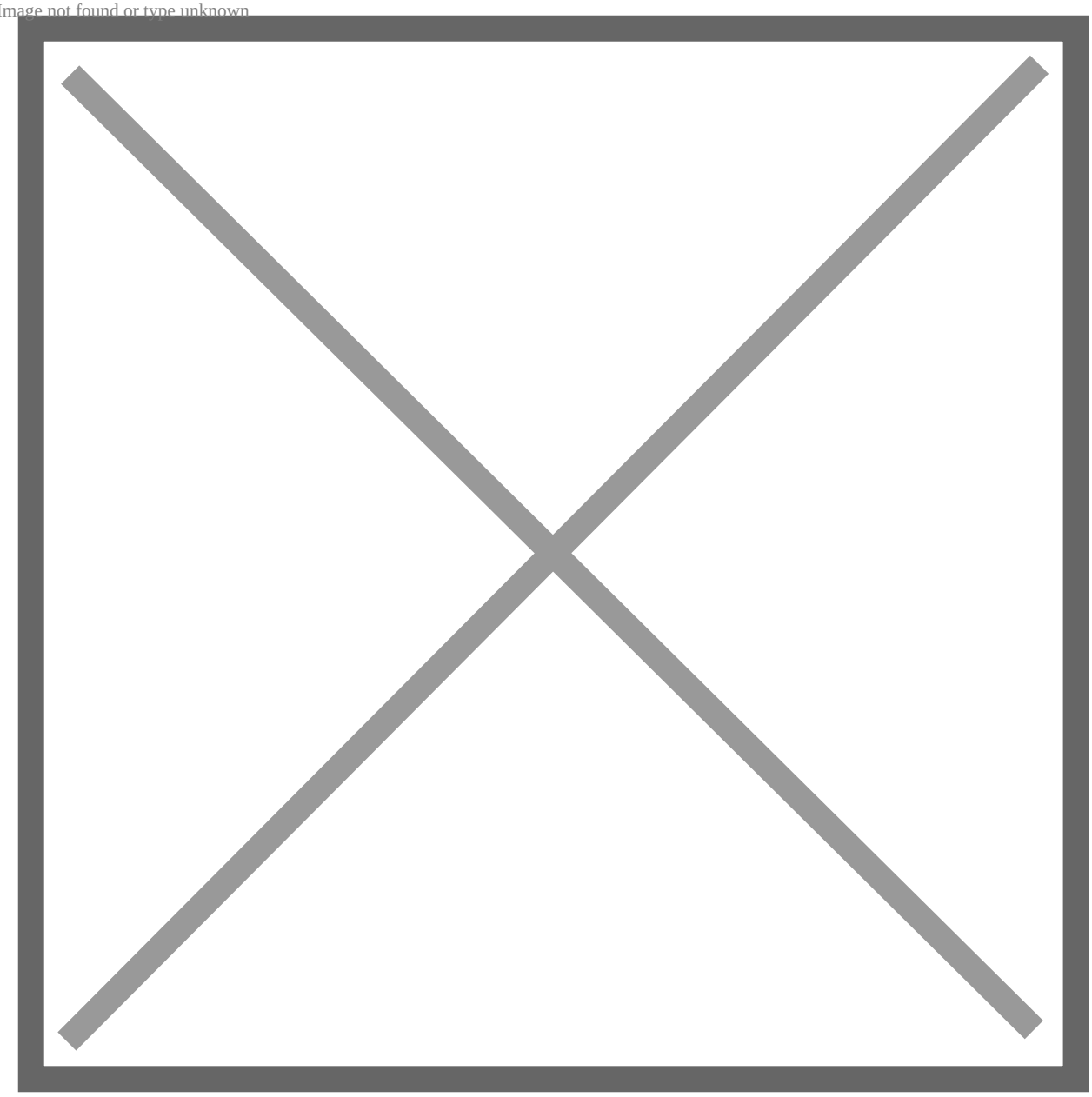


tomcat jdk

1. mkdir -p /www/mydockerfile/tomcat/apptest
2. cd /www/mydockerfile/tomcat
3. echo "Tomcat test app1" > /www/mydockerfile/tomcat/apptest/index.jsp

4. wget http://dg1.bt.cn/install/src/apache-tomcat-9.0.62.tar.gz && wget http://dg1.bt.cn/install/src/jdk-8u121-linux-x64.rpm
5.

Image not found or type unknown

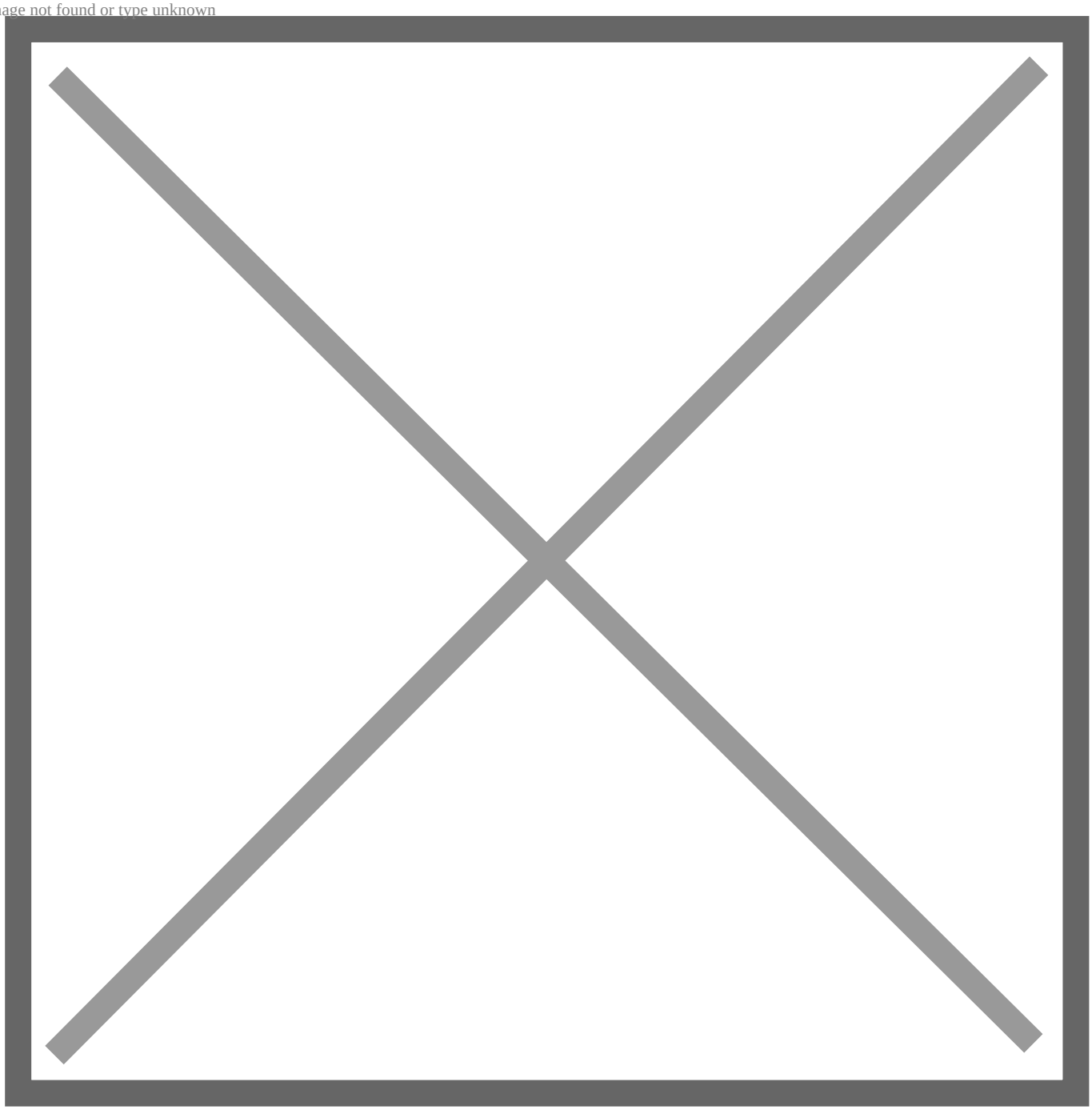


dockerfile SSH

```
cat > dockerfile << EOF
FROM centos
## FROM   centos

ADD apache-tomcat-9.0.62.tar.gz /usr/local
## ADD            /usr/local/apache-tomcat-9.0.62

COPY apptest /usr/local/apache-tomcat-9.0.62/webapps/apptest
## COPY    apptest                      apptest
```

```
COPY jdk-8u121-linux-x64.rpm /tmp/
## COPY    jdk-8u121-linux-x64.rpm     /tmp/

ENV MYPATH=/usr/local/apache-tomcat-9.0.62
## ENV

WORKDIR \$MYPATH
## WORKDIR

EXPOSE 8080 8009
## EXPOSE

RUN rpm -ivh /tmp/jdk-8u121-linux-x64.rpm && rm -f /tmp/jdk-8u121-linux-x64.rpm
## RUN      jdk

CMD ["/usr/local/apache-tomcat-9.0.62/bin/catalina.sh", "run"]
## CMD              tomcat

EOF
```

Image not found or type unknown



- tomcat
  Docker --> -->
  Dockerfile /www/mydockerfile/tomcat/dockerfile
  tomcat_test:1.0

Image not found or type unknown

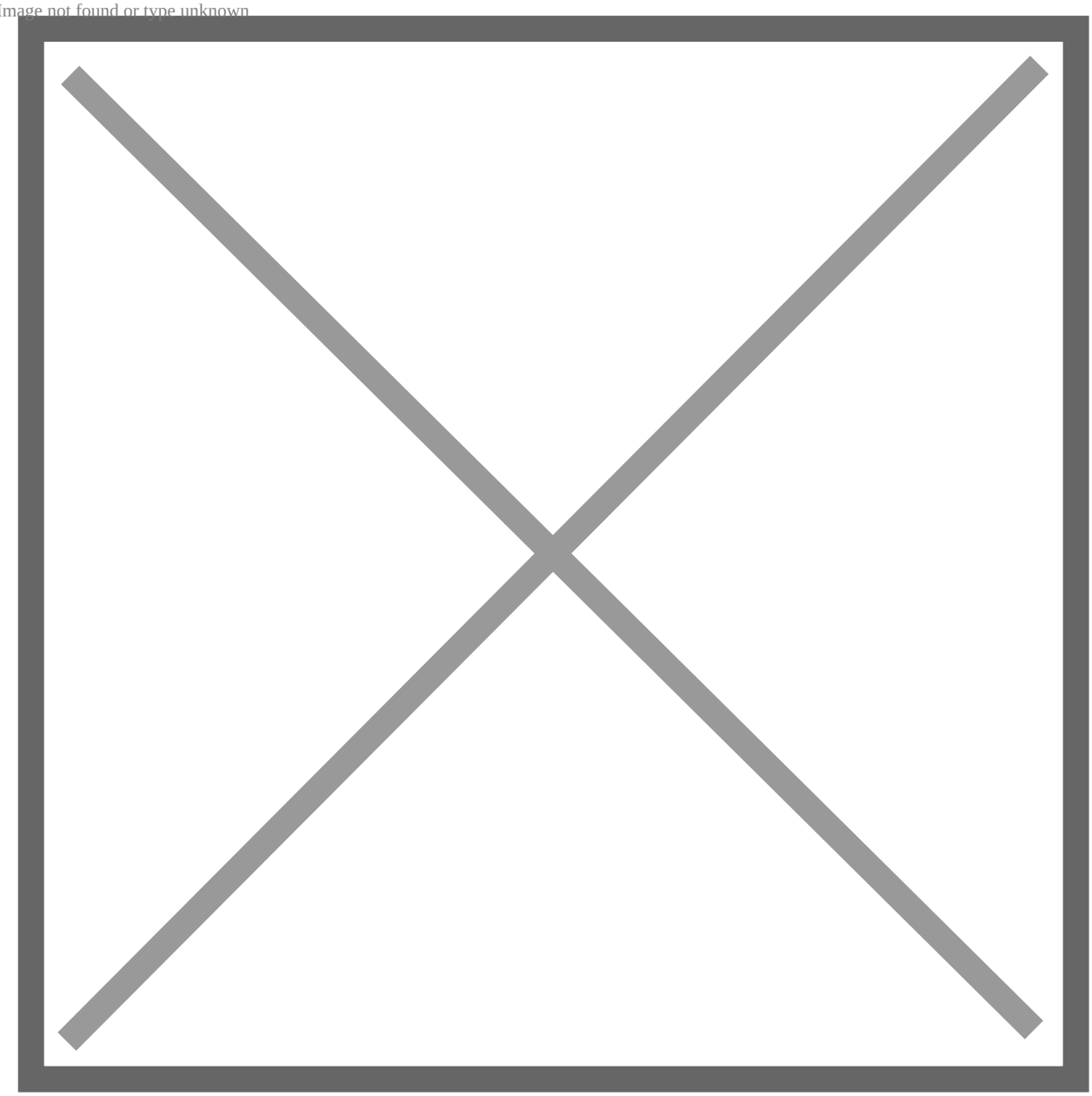


Image not found or type unknown

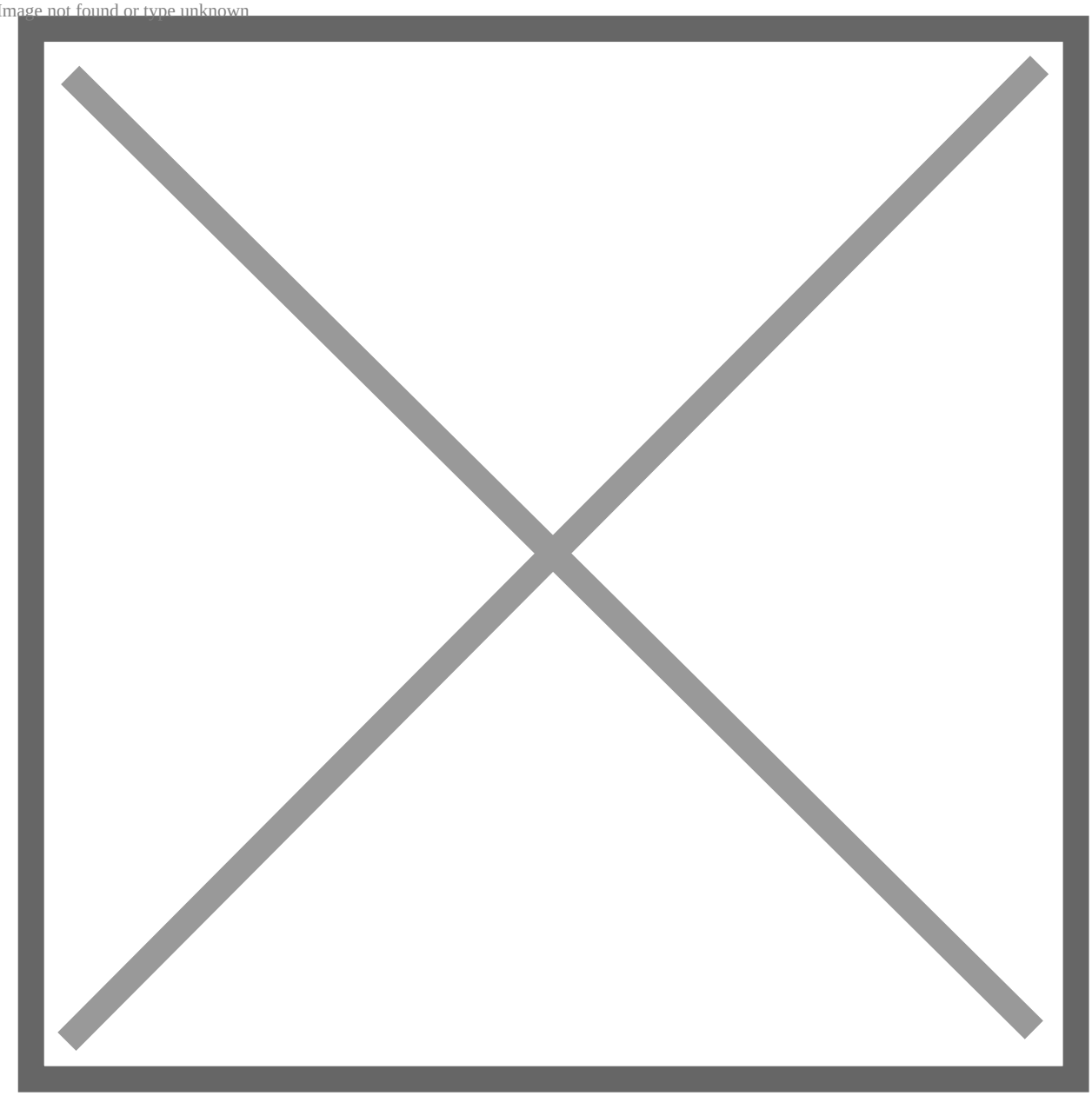
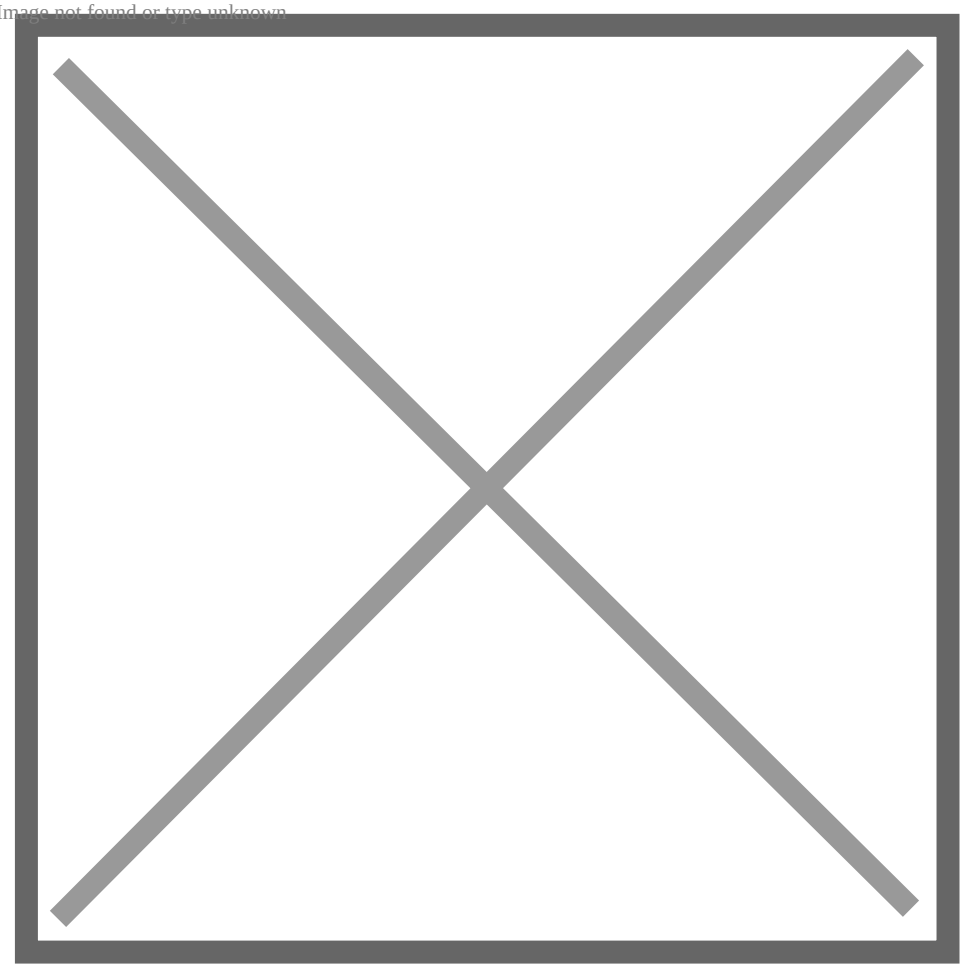


Image not found or type unknown



- -->

Image not found or type unknown

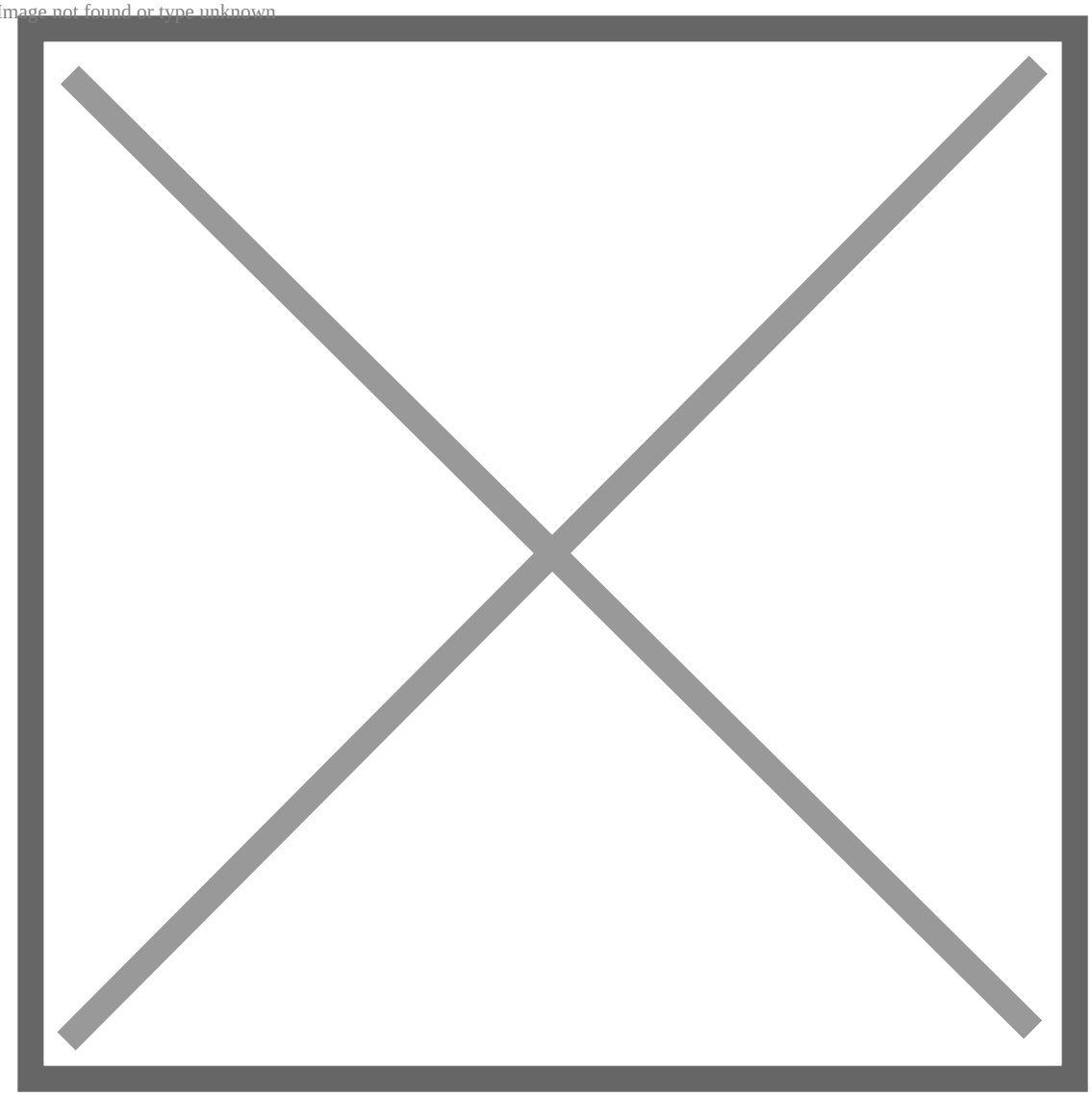


Image not found or type unknown

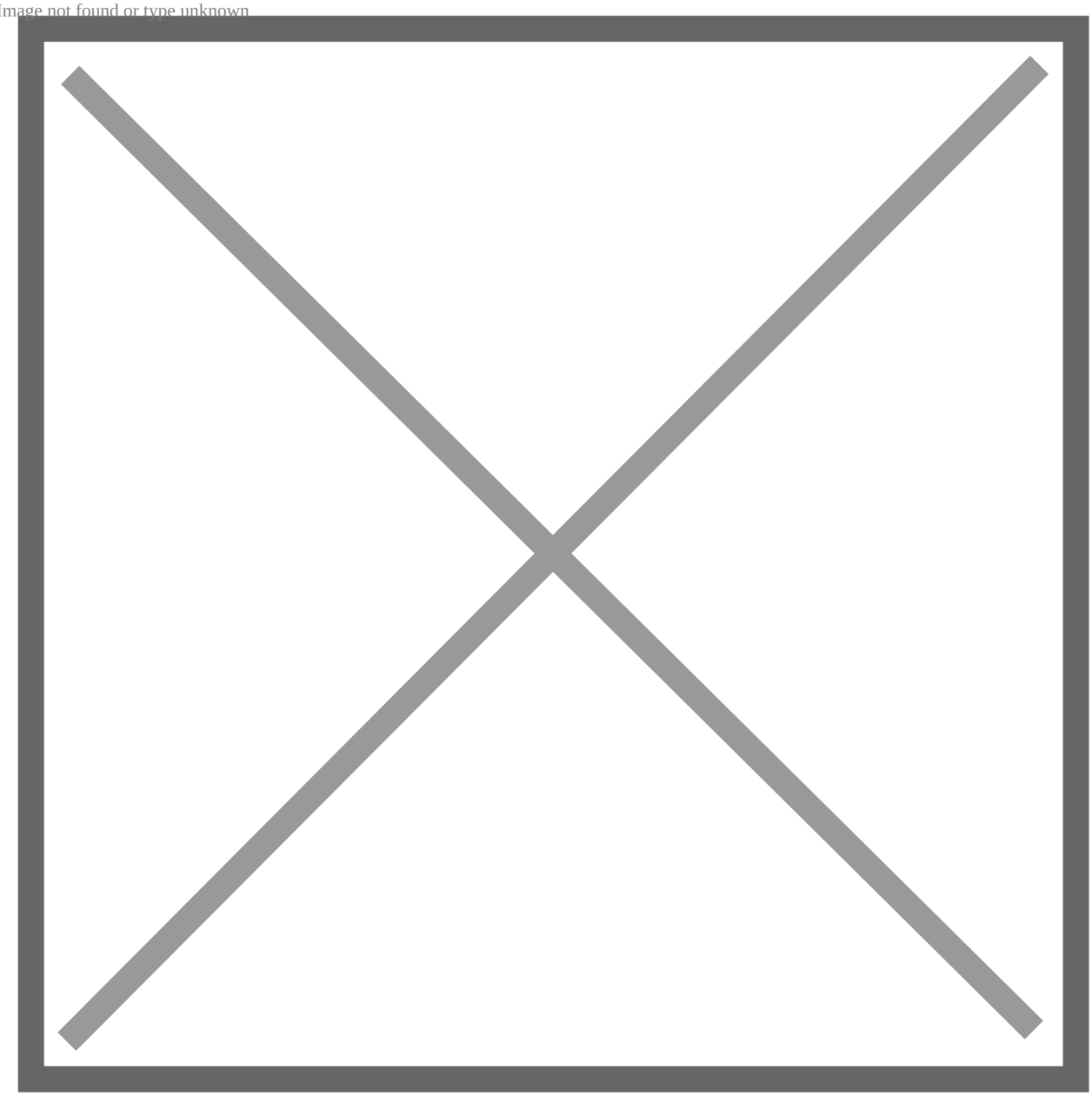
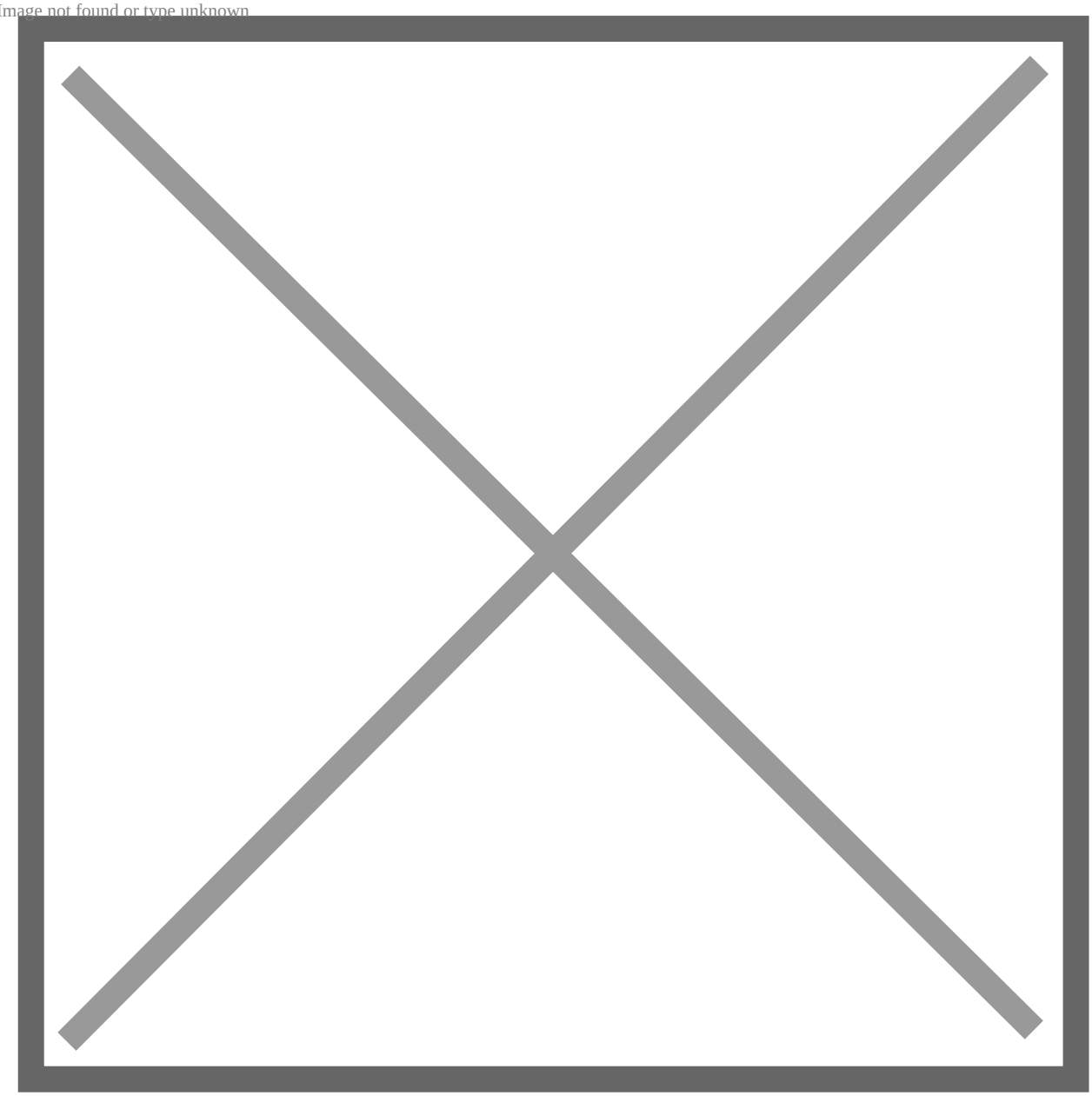
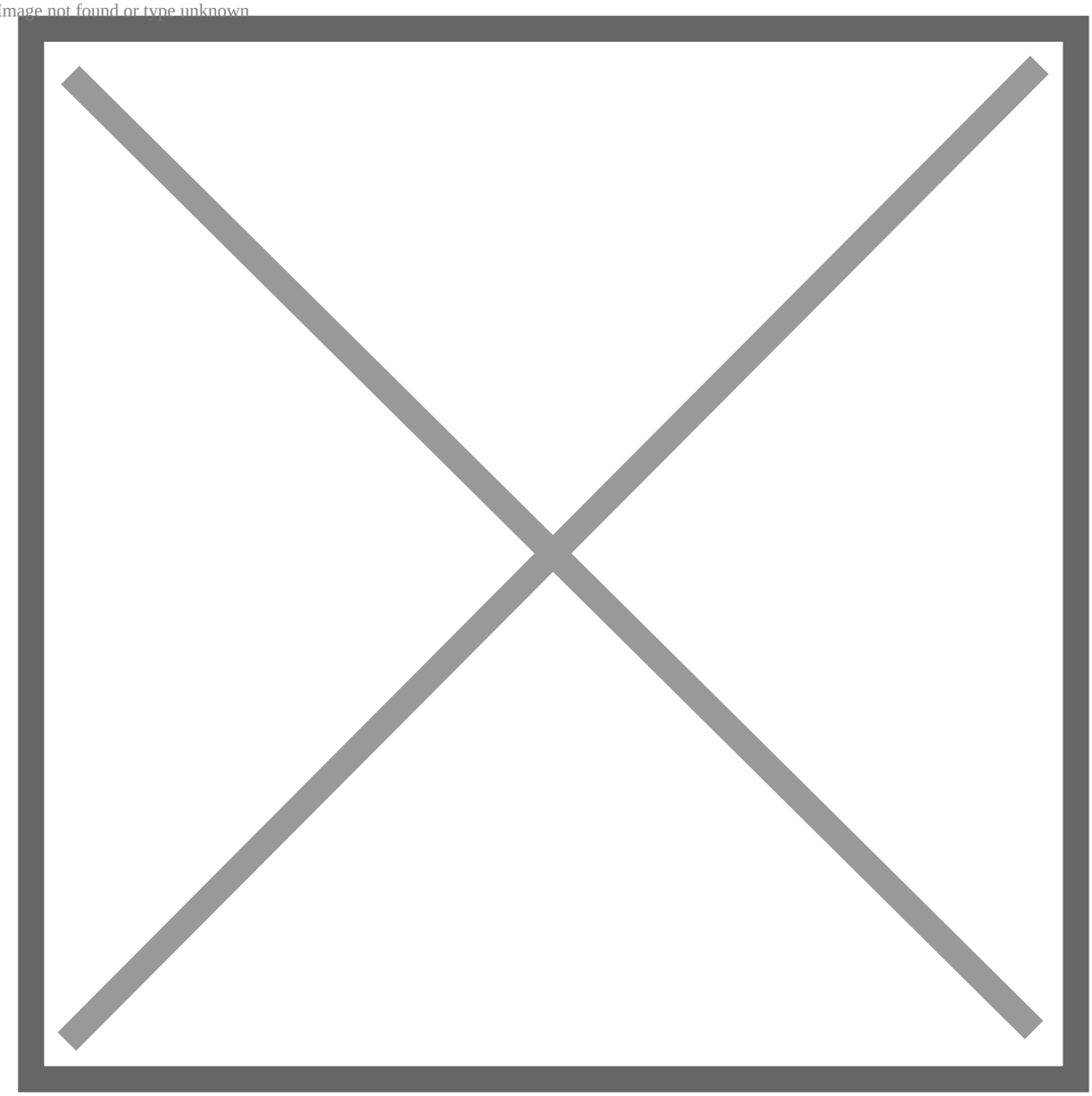


Image not found or type unknown



- tomcat 8080
  http://ip:8080/apptest/

Image not found or type unknown



tomcat.png *(9.47 KB, : 3)*

tomcat.png

2022-7-7 10:26

dockerfile Docker