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*Important
Questions*

What is Docker?

Why use Docker?



Stephen

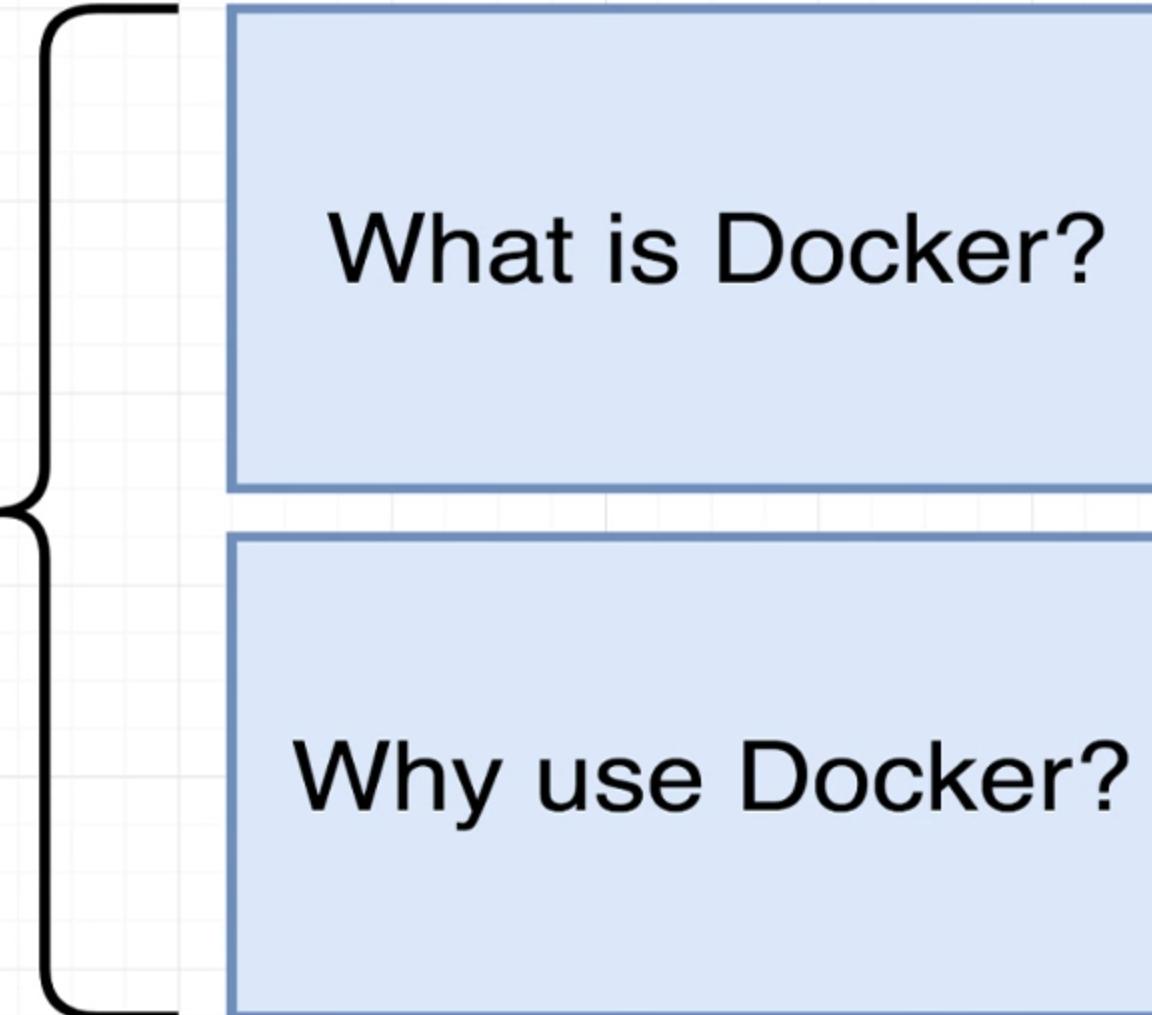
File Edit View Arrange Extras Help All changes saved

Stephen Grider

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*Important
Questions*



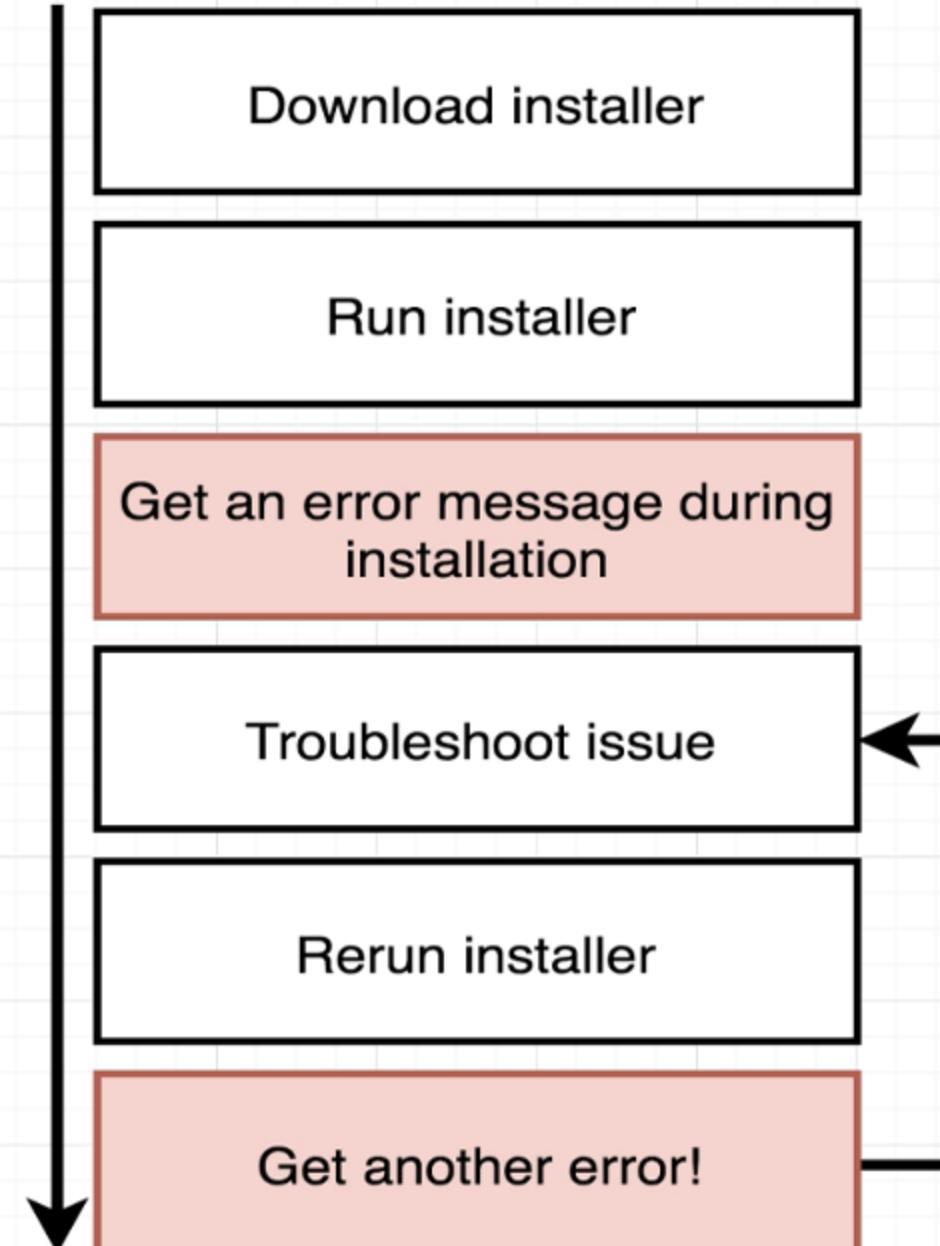


Stephen



Installing Software

Flow



This is what
Docker is trying
to fix



Download

Redis uses a standard practice for its versioning: **major.minor.patchlevel**. An even **minor** marks a **stable** release, like 1.2, 2.0, 2.2, 2.4, 2.6, 2.8. Odd minors are used for **unstable** releases, for example 2.9.x releases are the unstable versions of what will be Redis 3.0 once stable.

Stable (4.0)

Redis 4.0 was released as GA in July 2017. Contains several big improvements: a modules system, much better replication (PSYNC2), improvements to eviction policies, threaded DEL/FLUSH, mixed RDB+AOF format, Raspberry Pi support as primary platform, the new MEMORY command, Redis Cluster support for Nat/Docker, active memory defragmentation, memory usage and performance improvements, much faster Redis Cluster key creation, many other smaller features and a number of behavior fixed.

Unstable

This is where all the development happens. Only for hard-core hackers. Use only if you need to test the latest features or performance improvements. This is going to be the next Redis release in a few months.

⬇️
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unstable

Beta (5.0)

Redis 5.0 is the first version of Redis to introduce the new stream data type with consumer groups, sorted sets blocking pop operations, LFU/LRU info in RDB, Cluster manager inside redis-cli, active defragmentation V2, HyperLogLogs improvements and many other smaller improvements.

⬇️
Release
notes

⬇️
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5.0-rc4

Docker

It is possible to get Docker images of



Installation

Download, extract and compile Redis with:

```
$ wget http://download.redis.io/releases/redis-4.0.11.tar.gz  
$ tar xzf redis-4.0.11.tar.gz  
$ cd redis-4.0.11  
$ make
```

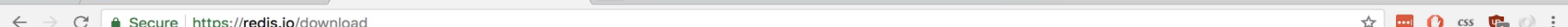
The binaries that are now compiled are available in the `src` directory. Run Redis with:

```
$ src/redis-server
```

You can interact with Redis using the built-in client:

```
$ src/redis-cli  
redis> set foo bar  
OK  
redis> get foo  
"bar"
```

Are you new to Redis? Try our [online, interactive tutorial](#).



generic redis-stable.tar.gz tarball does not match any hash because it is modified to untar to the redis-stable directory.

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1. stephengrider@stephens-MacBook-Pro: ~/workspace/DockerWorkspace/prod (zsh)

→ prod git:(master) wget http://download.redis.io/releases/redis-4.0.11.tar.gz

I

1. stephengrider@stephens-MacBook-Pro: ~/workspace/DockerWorkspace/prod (zsh)

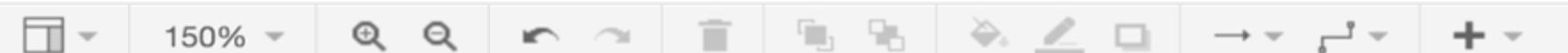
```
→ prod git:(master) wget http://download.redis.io/releases/redis-4.0.11.tar.gz
zsh: command not found: wget
→ prod git:(master) █
```

```
→ prod git:(master) wget http://download.redis.io/releases/redis-4.0.11.ta  
r.gz  
zsh: command not found: wget  
→ prod git:(master) █
```

{}



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Flow

Installing Software

Download installer

Run installer

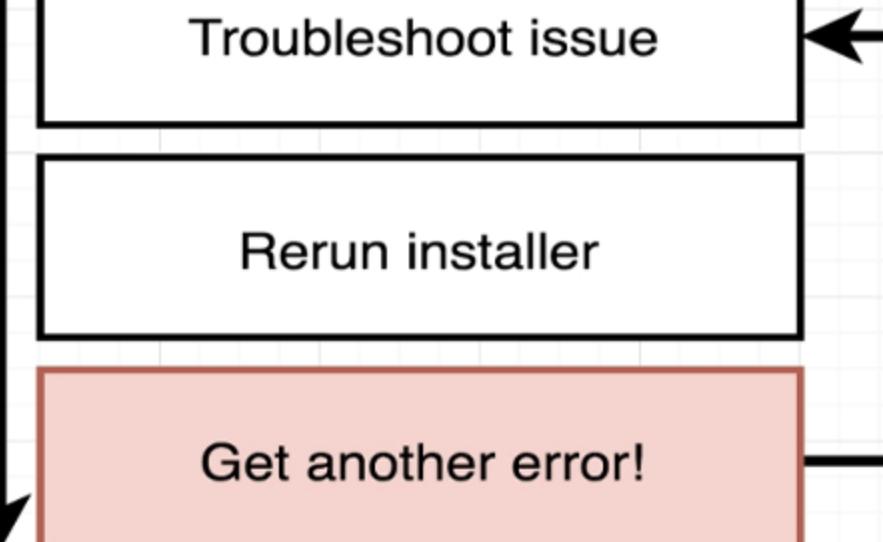
Get an error message during installation

Troubleshoot issue

Rerun installer

Get another error!

This is what
Docker is trying
to fix





1. stephengrider@stephens-MacBook-Pro: ~/workspace/DockerWorkspace/prod (zsh)

→ prod git:(master) docker run -it redis

1. docker run -it redis (docker)

```
redis 0:0>
```

1:M 07 Aug 17:57:20.625 # WARNING: The TCP backlog setting of 511 cannot be enforced because /proc/sys/net/core/somaxconn is set to the lower value of 128.

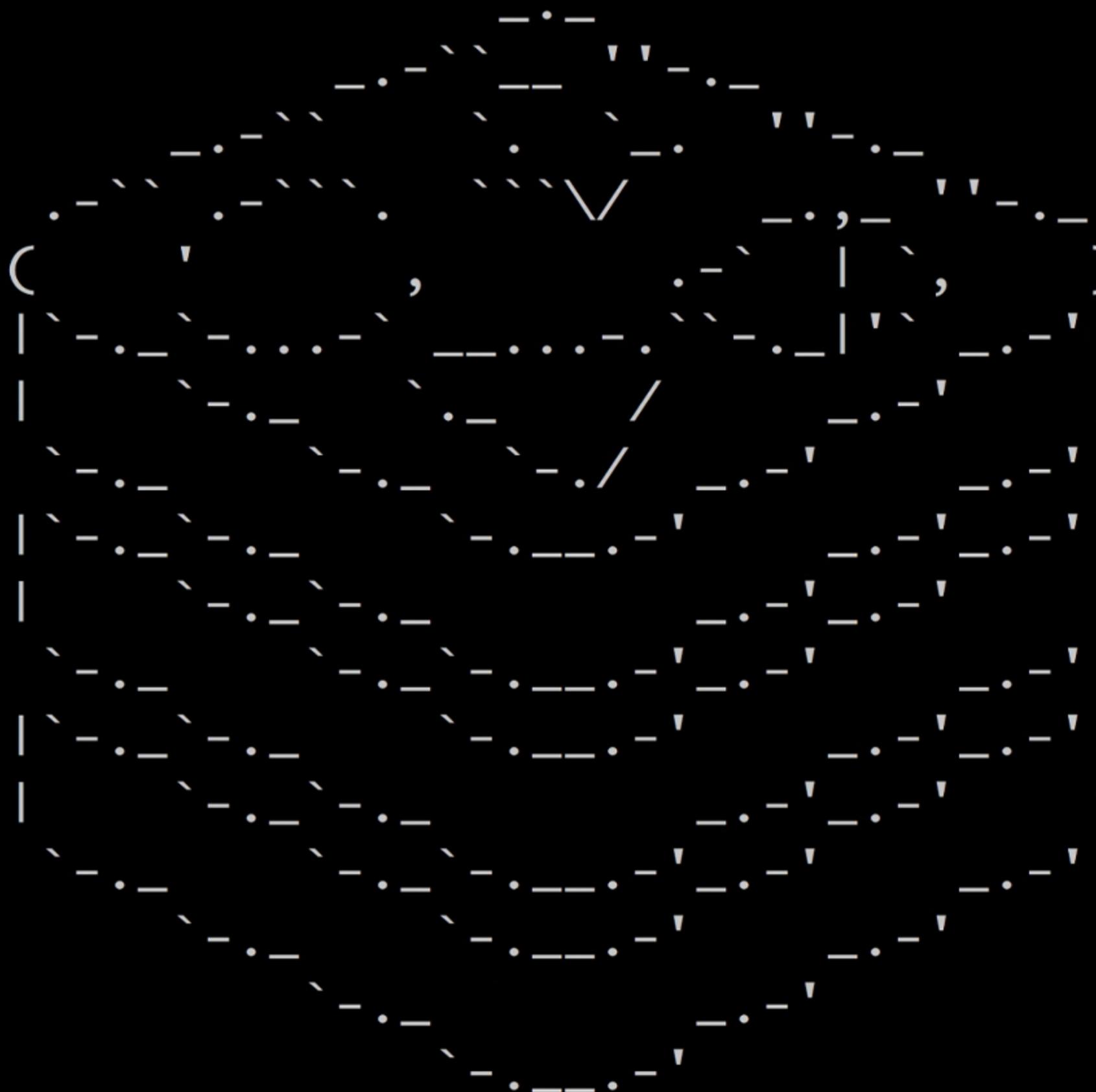
1:M 07 Aug 17:57:20.625 # Server initialized

1:M 07 Aug 17:57:20.625 # WARNING you have Transparent Huge Pages (THP) support enabled in your kernel. This will create latency and memory usage issues with Redis. To fix this issue run the command 'echo never > /sys/kernel/mm/transparent_hugepage/enabled' as root, and add it to your /etc/rc.local in order to retain the setting after a reboot. Redis must be restarted after THP is disabled.

1:M 07 Aug 17:57:20.625 * Ready to accept connections

1. docker run -it redis (docker)

is.conf



Redis 4.0.11 (0000000/0) 64 bit

Running in standalone mode

Port: 6379

PID: 1

<http://redis.io>



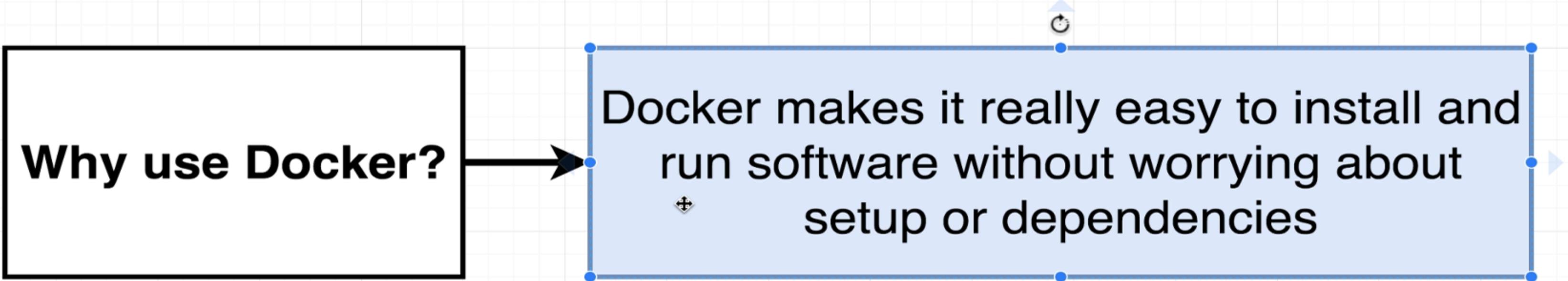
Stephen

File Edit View Arrange Extras Help All changes saved

Stephen Grider

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grid



Udemy

