



# Speed up your local development

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# TOC

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# Overview

Speed up your local development with an (old) remote workstation

<https://www.alexmoreno.net/speed-your-local-development-old-remote-workstation/>

## DISCLAIMERS:

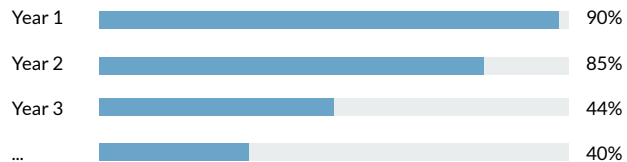
- Notes -> Article -> talk
- Kids may happen





# The problem to solve

- Our laptops degrade over time, loss of **performance**, ...
- We get more resource demanding
  - From Apache, mysql, to Docker, heavy IDE,
  - ...





## The problem to solve





# What are the options

1

Throw more money at your current setup

- Most sensible but **not** always an option

Cost: \$ \$

Effort: 

2

Throw away the computer and buy another one

Cost: \$ \$ \$ \$ \$

Effort: 

3

Use a remote server (continue watching)

Cost: \$

Effort:    

4

Others?

- AWS
- DigitalOcean, ...

\*Cost: \$ \$

Effort:   

\*With remarks

# Research

Search for:

- Workstations
- Refurbished computers
- Company retired computers

Hello **Alejandro** ▾Daily DealsHelp & Contact

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Shop by category ▾

workstation

Desktops & All-in-... ▾

Search

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Category

All

< Computers/Tablets & Networking

Desktops & All-in-Ones

PC Desktops & All-in-Ones

Apple Desktops & All-in-Ones

Home, Furniture & DIY

Business, Office & Industrial

Toys & Games

Books, Comics & Magazines

Musical Instruments

Health & Beauty

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RAM Size

64 GB (2,846)

32 GB (1,111)

128 GB (1,533)

60-80 GB (2,786)

16 GB (964)

More than 80 GB (2,078)

1-19 GB (1,696)

20-39 GB (1,270)

See all

Operating System

Linux (35)

Not Included (182)

Ubuntu (3)

Windows (32)

Windows 10 (6,789)

Windows 10 Pro (907)

All listingsAccepts OffersAuctionBuy it nowCondition ▾

Lowest price + P&P ▾

9,301 results for **workstation** [Save this search](#)

Postage to: **AL73HU** ▾

Price

Under £96.00

£96.00 to £207.00

Over £207.00


Operating System

Not Included

Windows 10

Windows 7

We removed some search results to show you the most relevant listings. [View all results](#)



[HP Z620 Tower Workstation](#)

Pre-owned


£11.50

2 bids

2d 2h left (Fri, 18:11)

Free collection in person

🔖



[HP Z620 Tower Workstation](#)

Pre-owned


£11.50

2 bids

2d 2h left (Fri, 18:31)

Free collection in person

🔖



[Dell Xeon Workstation](#)

Pre-owned


£5.00

4d 5h left (Sun, 21:14)

🔖

Feedback





# The (my) solution

- Dell Precision T5500

## Why

- Cheap (<>100£)
- Plenty available
- Extensible (RAM, 2nd processor)







# Extensibility

- RAM

Select a Speed

PC3-8500R

PC3-10600R

Select a Size

4GB


8GB

<div>3 x 8GB 24GB Kit</div>	<div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div>	<div>BUY KIT</div> <div>\$44.99</div>
<div>6 x 8GB 48GB Kit</div>	<div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div>	<div>BUY KIT</div> <div>\$89.99</div>
<div>9 x 8GB 72GB Kit</div>	<div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div> <div>8GB</div>	<div>BUY KIT</div> <div>\$134.99</div>

# Extensibility

- 2nd processor

9 items found from eBay international sellers



Intel Xeon X5675 Six Core CPU 3200MHz 3.06 GHz SLBYL LGA 1366 100% Work

Pre-owned

★★★★★ 4 product ratings


**£27.68**

[Buy It Now](#)

Free postage

24 watchers

From China



Intel Xeon X5675 SLBYL Six Core CPU LGA 1366 (AT80614006696AA) 3.06 GHz/12M/1333

Pre-owned


★★★★★ 4 product ratings

**£28.24**

[Buy It Now](#)

Free postage

From Hong Kong



Intel Xeon X5675 SLBYL 3.06 GHz LGA1366 Quad Core Processor


Pre-owned

**£33.28**

[Buy It Now](#)  
or Best Offer

+ £11.88 postage

From Germany



MATCHED PAIR Intel Xeon X5675 SLBYL 3.06GHz / 12M / 6.40 CPU 6-Core Processor

Pre-owned

★★★★★ 4 product ratings

**£56.06**

[Buy It Now](#)

Free postage

43 watchers

From China

Feedback

# Alternatives

- NUC

Expensive (compared to old workstation)

Not as extensible



Sponsored

Intel NUC BOXNUC7I3BNH Barebone Kit

★★★★☆ ~ 119

£330<sup>25</sup> £555-55

✓prime FREE delivery by Friday, Sep 18

Only 2 left in stock (more on the way).

Operating System  
None

CPU Model Family  
Core i3

CPU Model Speed  
2400 MHz

Hard Disk Size  
0 GB



Sponsored

Intel NUC Barebone Mini PC Kit (i3-8109U, Intel Iris Plus Graphics 655, Dual Channel DDR4-2400 SO-DIMM, Gigabit LAN)

★★★★☆ ~ 21

£248<sup>99</sup>

✓prime FREE delivery by Thursday, Sep 17

Operating System  
Windows 10

CPU Model Family  
Core i3

CPU Model Speed  
3.6 GHz

Hard Disk Size  
0 GB



Mini PC, Intel x5-Z8350 HD Graphics Desktop Computer, Windows 10 Pro 64-bit, DDR3L 2GB/32GB eMMC, Built-in Dual WiFi 2.4G /5.0G /BT 4.0

★★★★☆ ~ 225

£89<sup>99</sup>

✓prime FREE One-Day

Get it Tomorrow, Sep 16

Operating System  
Windows 10 Pro

CPU Model Family  
Atom Z8350

CPU Model Speed  
1.92 GHz

Hard Disk Size  
32 GB



Intel NUC Barebone Mini PC Kit (i3-8109U, Intel Iris Plus Graphics 655, Dual Channel DDR4-2400 SO-DIMM, Gigabit LAN)

★★★★☆ ~ 21

£248<sup>99</sup>

✓prime FREE delivery by Thursday, Sep 17

Operating System  
Windows 10

CPU Model Family  
Core i3

CPU Model Speed  
3.6 GHz

Hard Disk Size  
0 GB



Intel NUC 10 Performance Mini PC (Intel i7-10710U, 16 GB Optane Memory, 1 TB HDD, UHD Graphics, Windows 10 Home)

£753<sup>78</sup>

✓prime FREE One-Day

Get it Tomorrow, Sep 16

Only 2 left in stock (more on the way)

Operating System  
Windows 10

CPU Model Family  
Core i7

CPU Model Speed  
4.7 GHz

Hard Disk Size  
0

# Alternatives

## - Raspberries



### Raspberry Pi 4 Model B 2GB

£34.00 [The Pi Hut](#) **98% positive** (2,751) [Compare prices from 20+ shops](#)

★★★★★ 4,345 product reviews

**Raspberry Pi 4 B 2G** Computer Board. Features one of the newest member of the fourth-generation. Is a high-performance general ...

Raspberry Pi · Single-board · 2 GB RAM · Quad-core · HDMI · 1.5 GHz CPU

Other capacity options: [1GB](#) [4GB](#) [8GB](#)



### Raspberry Pi Zero

£4.80 [pimoroni.com](#) **99% positive** (1,710)

★★★★★ 10 product reviews

The **Raspberry Pi Zero** is half the size of a Model A+, with twice the utility. A tiny **Raspberry Pi** that's affordable enough for ...

Raspberry Pi · 512 MB RAM · 1 GHz CPU



### Raspberry Pi 3 Model B+ - Single-board computer - Broadcom BCM2837B0 1.4 GHz - RAM 1 GB - 802.11a/b/g/n/ac, Bluetooth 4.2

£34.00 [The Pi Hut](#) **98% positive** (2,751) [Compare prices from 5+ shops](#)

★★★★★ 1,991 product reviews

**Raspberry Pi 3B+** Board Only The **Raspberry Pi 3 Model B+** boasting a 64-bit quad core processor running at 1.4GHz, dual-band 2 ...

Raspberry Pi · Single-board · 1 GB RAM · Windows · Quad-core · HDMI · 1.4 GHz CPU



### Element14 Raspberry Pi Desktop Kit | PI-DESKTOP

£47.99 [CPC](#) **91% positive** seller rating [Compare prices from 2 shops](#)

★★★★★ 114 product reviews

Introducing a revolutionary set of accessories to help you to convert your **Raspberry Pi 2/3** into a functional desktop computer ...



### Raspberry Pi 3 Model A+

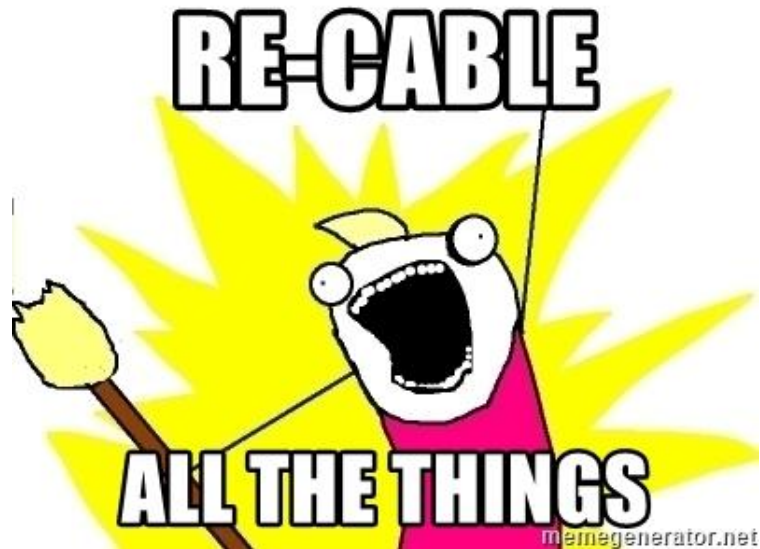
£23.00 [The Pi Hut](#) **98% positive** (2,751)

★★★★★ 109 product reviews

A flexible **Raspberry Pi A+** - Superb for young people learning about computer programming - Build an electronics project using ...

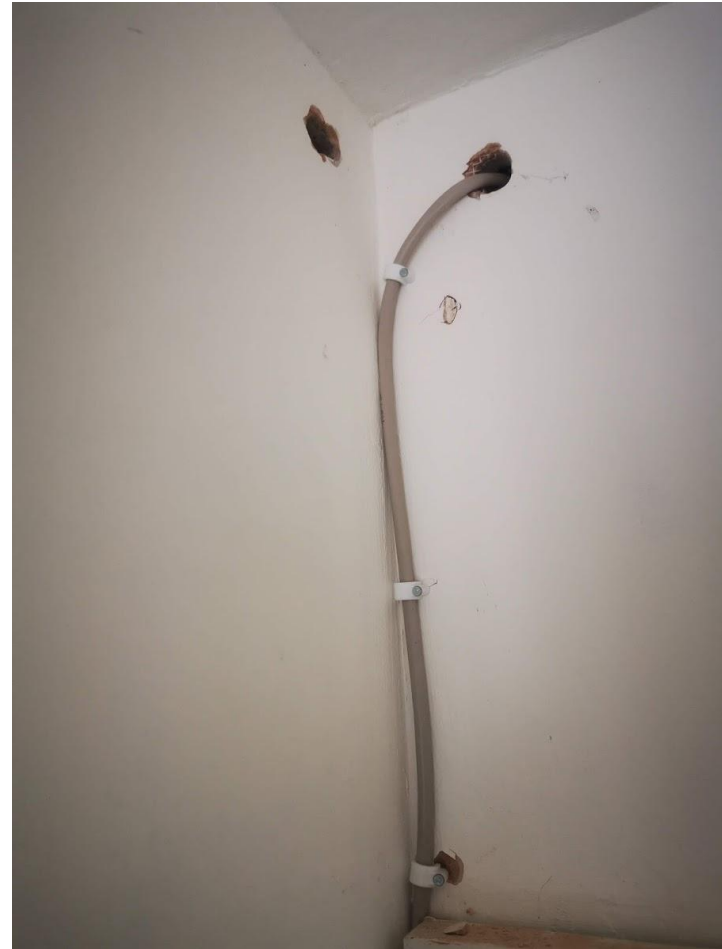
Raspberry Pi · 256 MB RAM · 1.4 GHz CPU

Step 0. Cable al the things





# Ooops





# Configuring the machine

- Choose the right distribution (something light, ie: Ubuntu)
- **Mint**
- Basic services (ssh, docker, ddev, lando, ...)
- **Ssh public key**
- Configure a (local) **fixed IP**
- Xwindows (do you really need it?)
- Make sure there is nothing else running that you don't need







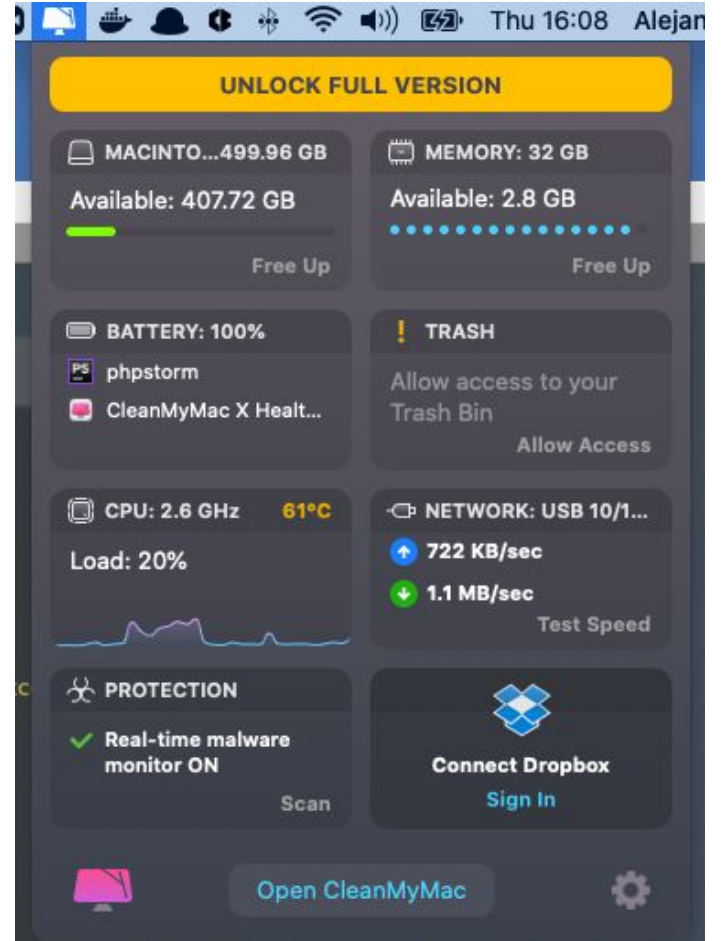
# Configuring the “local local”

- Hosts file
- <https://osxfuse.github.io/>
- Shared File System

```
sshfs alex@sauron:/home/alex/projects/acquia/[redacted]/drupal [redacted]  
sshfs alex@sauron:/home/alex/projects/personal/backup-sql sql-backups  
  
sshfs alex@sauron:/home/alex/projects/acquia/alexplayground alexplayground  
sshfs alex@sauron:/home/alex/projects/personal/ddevblt/ddevblt ddevblt
```

# Configuring the “local local”

- Keep your local clean





## Sharing the services

- DDEV
  - Per instance config
  - `.ddev/config.yaml`
- Lando
  - `~/lando/config.yml`
  - **`bindAddress: 0.0.0.0`**
- DrupalVM
  - `box/config.yml`
  - `vagrant_public_ip: "192.168.1.111"`

```
name: amorenod9
type: drupal9
docroot: web
php_version: "7.3"
webserver_type: nginx-fpm
router_http_port: "8888"
router_https_port: "4432"
xdebug_enabled: false
additional_hostnames: []
additional_fqdns: []
mariadb_version: "10.3"
provider: default
use_dns_when_possible: true
```



# Remote desktop

- Tightvnc
- <https://remotedesktop.google.com/>
  - Use for heavy apps? Slack, zoom, ...





# IDE (Remote or local?)

- Sshfs
  - Automate
- Alternatives
  - NFS

Others:

- <https://theia-ide.org/> (Remote IDE)







# DEMO



# What now

- More RAM
- NFS
- Theia IDE







# QA

<https://shop.spreadshirt.co.uk/drupal/>

<http://alexmoreno.net/>



# Thank you.

