

# Self Hosting Beyond the Website

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BostonWP Meetup

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@hirozed

**Slides:** <https://link-to.xyz/shslides>

# Who Am I?

- WordPress Full Stack Developer for STAT
- Formerly DevOps & WordPress dev for Oomph
- Linux enthusiast
- Lots of experience with web servers

# What will I talk about?

- Hosting your website vs hosting your entire server
- Where to look for hosting
- Demo of server setup
- Questions

**Why not  
shared  
hosting?**

# Shared hosting means one server to host them all.

## Reverse IP Domain Check

Remote Address

 Found **216** domains hosted on the same web server as [bostonwp.org](http://bostonwp.org) (192.185.36.125).

It appears that the web server located at 192.185.36.125 may be hosting one or more web sites with explicit content. The web sites in question are highlighted in red below. There is a possibility that all of the web sites on this web server may be blocked by web filtering software. Search engine rankings for these web sites may be affected as well.

acousticturnpike.com  
adikacommunication.com  
aipaerospace.com  
allwalksproductions.com  
ararelife.com  
askthesingleman.com  
beijing.hmconline.com  
blastus.net  
bobyongphoto.com  
bostonwpdemo.com  
cambridgecapital.org  
careerleadershipforum.com  
coachjohnnevans.com  
coyoteday.org  
creativeemailsignatures.com  
customhomephotos.com  
divorceandremarriagebook.com  
erinandtodd.haarphotography.com  
fanz.in  
foster-adopt-odyssey.com  
gethisloveback.com  
glamourweave.com  
haarassociates.com

activedevelopment.com  
adikatourandtravel.com  
alarmsystemsintatlanta.com  
andicom.co  
ascotvalebeautyclinic.com  
auntys-fuking.fanz.in  
bingotramp.com  
blue-film.fanz.in  
bostonwp.org  
bostonwpdemo2.com  
canasimaging.com  
cintel.org.co  
codybiblechurch.com  
craftymofos.com  
croatianradioprogram.com  
dietryingracingteam.com  
eng.s-vent.com  
exst.us  
footballbettingcentre.com  
gasprovider.org  
gizmophilacs.com  
gocomala.com  
hair-back-forever.com

Reverse IP lookup from *You Get Signal*

# So what?

- Shared resources
  - Web
  - Email
  - Database
- The actions of another site could have repercussions on your site.
- You only have control over your files and what little resources you have.

# What about WordPress hosting?

- Some of the same reasons as above
- More restrictions.
- More expensive
- Prices based on combination of visits, space, or bandwidth.

# Ok, but there are benefits, right?

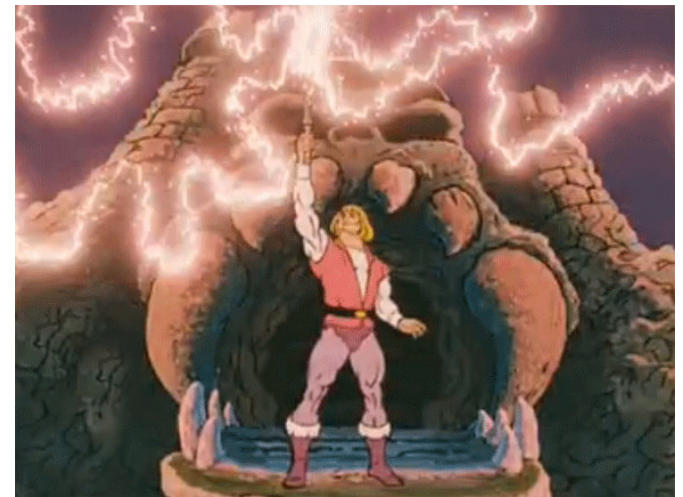
- Hands-free on the server side
- "99% uptime" (or something like that)
- You only need to worry about your site & code



**Why  
complete  
self  
hosting?**

# You have the power

- Ensure all updates are timely
- Tune your server to optimize your site performance
- One IP address for your server
- Tie in other technologies (node, python, ruby)
- Run comand line scripts (wp-cli)
- Set up multiple servers (split database and web)



# What are the downsides?

- You have the keys to the castle
- Keep is secure
- Responsible for performance
- Sleep could be lost

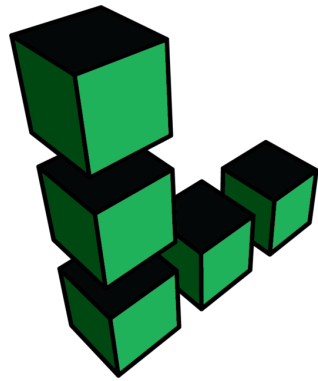
**What are my  
options?**



# DigitalOcean

- Really cheap plans
- 1-click Applications
- Several different distros
- Automatic backups
- Tons of tutorials
- Limited support

Plans



# linode

- Choose a plan, based on memory/disk size
- Multiple servers
- Lots of tutorials
- Been around for a while

- Pick a Plan
- Pick a Distro
- Pick a Location



Plans



- Free micro instances
- Lots of options
- Can be daunting
- Pennies per hour, based on instance

Plans



- Cadillac of VPS hosting
- Managed support
- You pay for the support

Calculator



**How do I get  
started?**

# Pick a Linux



## distro



## ubuntu

- Most popular
- New LTS every 2 years / support for 5
- Large amount of tutorials

## debian

- Grandfather of distros
- Extremely stable
- Most Ubuntu tutorials can be used for debian



## CentOS

- Open Source version of Red Hat
- Extremely stable
- Supported for 10 years

# Practice with Vagrant

Vagrantfile+

buffers

```
1 # -*- mode: ruby -*-
2 # vi: set ft=ruby :
3
4 # All Vagrant configuration is done below. The "2" in Vagrant.configure
5 # configures the configuration version (we support older styles for
6 # backwards compatibility). Please don't change it unless you know what
7 # you're doing.
8 Vagrant.configure(2) do |config|
9   # The most common configuration options are documented and commented below.
10  # For a complete reference, please see the online documentation at
11  # https://docs.vagrantup.com.
12
13  # Every Vagrant development environment requires a box. You can search for
14  # boxes at https://atlas.hashicorp.com/search.
15  config.vm.box = "ubuntu"
16
17  # Disable automatic box update checking. If you disable this, then
18  # boxes will only be checked for updates when the user runs
19  # `vagrant box outdated`. This is not recommended.
20  # config.vm.box_check_update = false
21
22  # Create a forwarded port mapping which allows access to a specific port
23  # within the machine from a port on the host machine. In the example below,
24  # accessing "localhost:8080" will access port 80 on the guest machine.
25  # config.vm.network "forwarded_port", guest: 80, host: 8080
26
```

INSERT

ruby

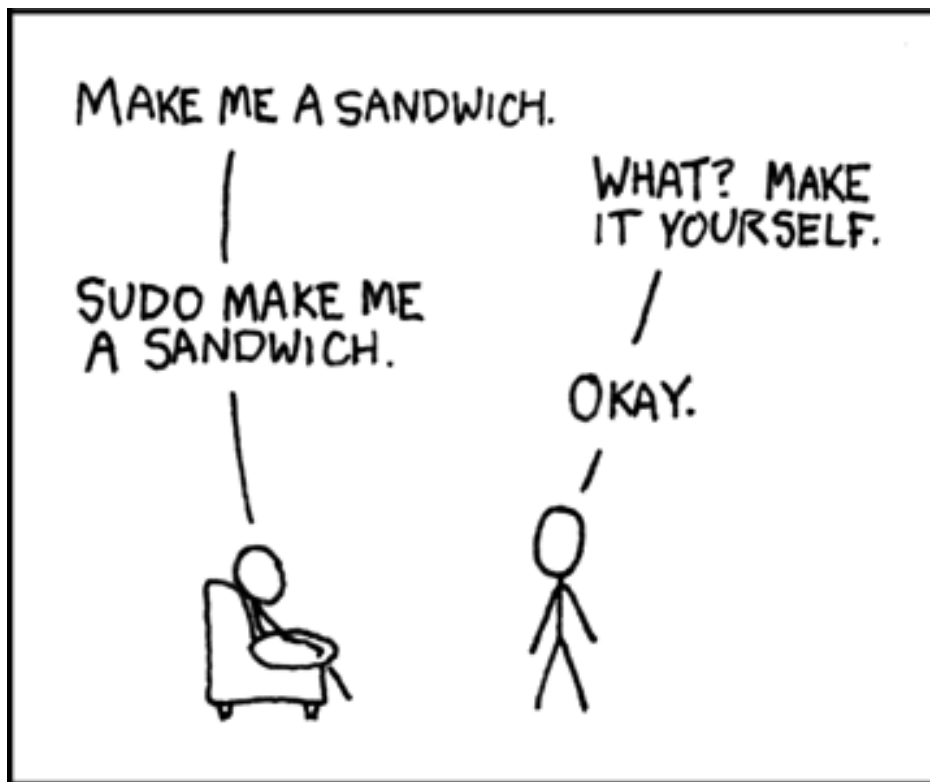
utf-8[unix]

21%

15: 22

1:Vagrantfile

# With great *sudo* comes great responsibility



- Sudo is a powerful tool.
- It has the same rights as the *root* user
- When following a tutorial, make sure you know what a step is asking before running a command as sudo.

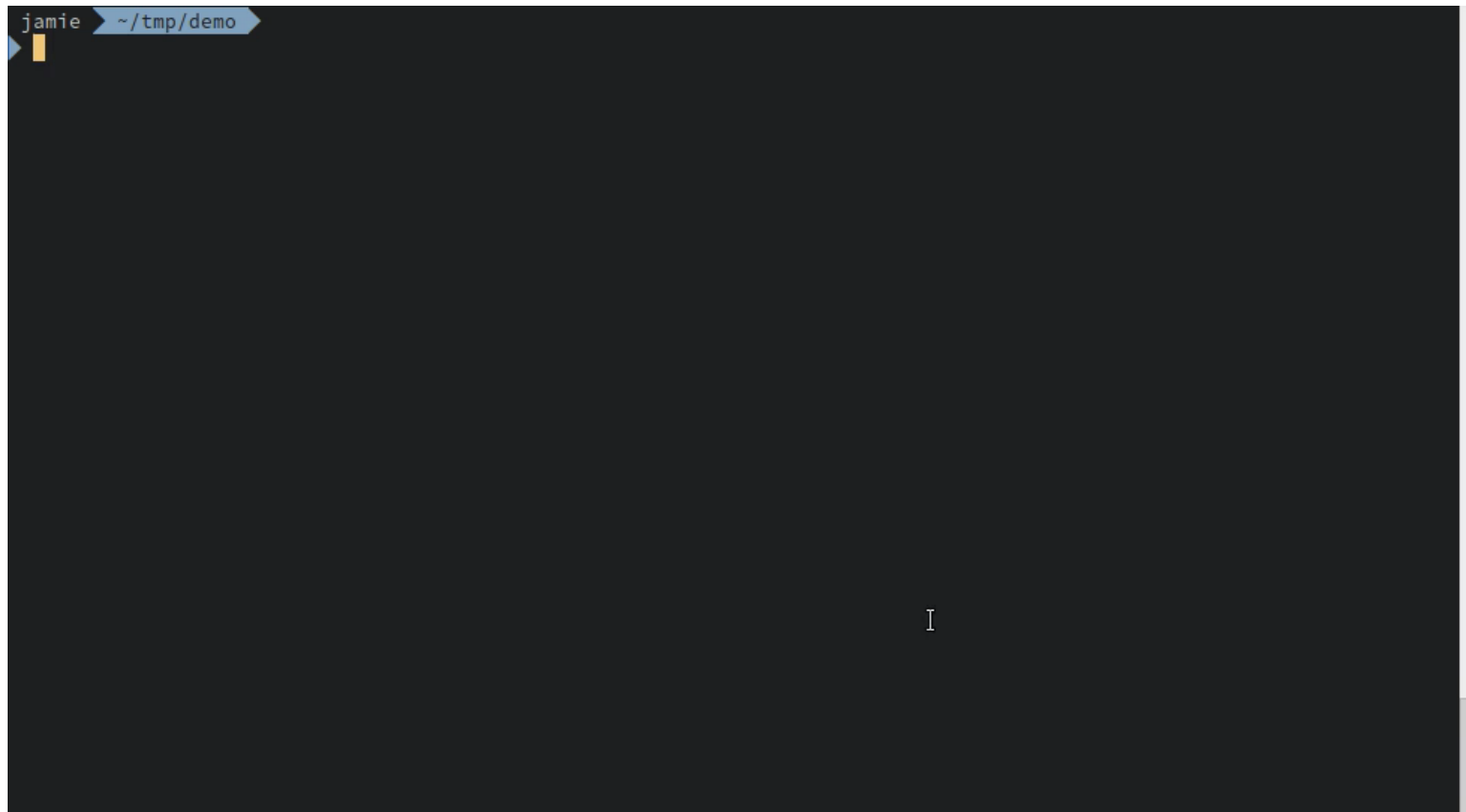
Explanation of sudo

Credit: XKCD

# LAMP Install Demo

Taken from:

How To Install Linux, Apache, MySQL, PHP (LAMP) stack on Ubuntu 14.04



```
jamie ~/tmp/demo  
I
```

A terminal window with a dark background. The top bar shows the user 'jamie' and the current directory '~ /tmp/demo'. A yellow cursor is positioned at the start of the first line. The second line contains the letter 'I'.

# WP-CLI

. / WP-CLI

A command line interface for WordPress

Commands

Configuration

Docs

Blog

Packages

RESTful WP-CLI



WP-CLI is a set of command-line tools for managing [WordPress](#) installations. You can update plugins, set up multisite installs and much more, without using a web browser.

A more RESTful WP-CLI aims to unlocking the potential of the WP REST API at the command line. Project backed by Pressed, Chris Lema, Human Made, Pagely, Pantheon and many others. [Learn more →](#)

## Requirements

- >> UNIX-like environment (OS X, Linux, FreeBSD, Cygwin); limited support in Windows environment
- >> PHP 5.3.29 or later
- >> WordPress 3.7 or later

## Installing (And Upgrading)

First, download [wp-cli.phar](#) using `wget` or `curl`. For example:

```
curl -O https://raw.githubusercontent.com/wp-cli/builds/gh-pages/phar/wp-cli.phar
```

# Parting Words

- Backups!
- Perform regular updates
- Monitor logs
  - NewRelic
  - Amon
  - Prometheus

# Questions?

## **Resources:**

<https://link-to.xyz/shdocs>