



INTRODUCTION TO BOA

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FIRST THINGS FIRST

- Thanks for everybody who made Drupal Camp Athens possible
- Thanks to the developers of BOA and Aegir
- Thank you for being here!

COVER THE BASICS

- Do you host your websites yourselves?
- Do you use a shared server?
Do you host more than 10 sites? 20? 30?
Are you happy with it?
- Do you maintain your own server?
Can you sleep at night?
- Do you host any huge sites?
100k visits per day
DBs bigger than 10g

HAPPY MOMENTS...

Me:

I would like JSmin to be available on the server. It can be installed with
pecl install jsmin

Host:

JSMin has to be compiled for each version of PHP. This is possible, but we have to charge this with 60 Euros for 30 minutes of work.

PATH TO ENLIGHTENMENT

If you answered yes on the previous slide, except for the happy and sleep questions, then BOA might interest you.

BOA is not for the faint of heart. You will have control of your machine, and you will be able to do many great things with it.

BOA

WHAT IS BOA

BOA stands for Barracuda, Octopus, Aegir

- Barracuda and Octopus are a set of custom bash scripts and configs, created by [Omega8.cc](https://omega8.cc). Open source!
- Aegir is a well known, and mature, system for managing Drupal sites, built on Drupal! It leverages Drupal's multisite capabilities.
- **The main concept is that it shares code between your sites, so as to lower CPU and RAM usage because of how OPcache works.**

WHAT CAN BOA DO FOR YOU?

- With BOA you can worry about Drupal, and not about hosting Drupal.
- Within minutes you can have a fully working LEMP system, **fine tuned for Drupal**, supporting PHP 5.3 to 7.0, HHVM, MariaDB 10, Redis, HTTP/2 or SPDY, Apache SOLR and a properly configured firewall.
- Bonus: **self-healing scripts and automated backups** (xdrago and backboa)
- Extra Bonus: BOA has performance **modules installed**, and sometimes **enabled** by default and transparently (eg entity_cache, redis)

WHY BOA / BOA BENEFITS

- it is ~~fast~~ blazing fast
- it is secure*
- it is 100% open source
- the project is maintained on Github, and they are open to suggestions
- it is based on Debian
- can be used for development or production, including local development
- it supports Lets Encrypt! Without you doing anything!
- it doesn't require you to learn something new*
- did I say it has Skynet mode? BOA sites were not affected by Drupalgeddon.

SKYNET

Then #drupageddon happened, and we realized that we could make all existing BOA systems secure, auto-magically, in the first 60 minutes after #drupageddon alert was published.

Omega8.cc - 20150105

WHAT BOA CAN'T DO

- it can't save you from stupidity (sudo rm -rf /)
- it doesn't offer email accounts

*Fact: you should **NOT** send any email from BOA hosted sites. Use SMTP.*

GOOD TO KNOW

- BOA is extremely fast when you don't need to reach the DB all the time, because of aggressive caching
- Of course it can be used for sites with constant DB writes too, and has predefined config settings and scripts to create a proper my.cnf file!

EASY CONFIG

You can configure BOA easily by [touching empty files in the server](#)

BOA has an extensive documendation, that gets better every day.

ACHIEVEMENTS

- Organisers of this camp successfully serve more than 100k visitors per day with a 4gb RAM VM using BOA
- I personally host more than 20 Drupal sites with a 2gb RAM VM. With minimum effort.
- With proper planning you could go up to a hundred!
eg: Small sites, with shared codebase, different content and theming.

<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted]metis.net	Standard	2 weeks 6 days ago	Drupal-8.1.2
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted]metis.net	Standard	3 weeks 2 days ago	Drupal-8.1.2
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].com	Minimal	10 months 3 weeks ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted]metis.net	Minimal	1 month 1 week ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].gr	Minimal	1 year 4 months ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].eu	Minimal	1 year 2 months ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].biz	Minimal	1 year 4 months ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted]moular.com	Minimal	1 year 4 months ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].gr	Pressflow	1 month 4 days ago	pressflow-6.38.2
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].gr	Standard	5 months 2 weeks ago	d741
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted]tests.com	Minimal	7 months 1 week ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].gr	Minimal	1 month 2 weeks ago	panel
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<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].gr	Minimal	1 year 4 months ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].gr	Minimal	7 months 1 week ago	drupal-7.43
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<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].gr	Minimal	1 year 4 months ago	drupal-7.43
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<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted]	Hostmaster	1 year 4 months ago	Aegir Hostmaster 009
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].gr	Minimal	3 weeks 5 days ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].com	Minimal	1 year 4 months ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].al.gr	Minimal	6 months 2 weeks ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].gr	Minimal	1 year 4 months ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].gr	Minimal	2 months 2 days ago	drupal-7.43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	com[redacted].gr	Pressflow	1 year 4 months ago	pressflow-6.38.2

BOA IS WITHOUT ISSUES?

NO, CERTAINLY NOT.

Like with any system you maintain:

- You need to be up to date
- You need to read the changelog before updates
- Things can go awfully wrong, especially if you wanna live dangerously (eg: no backups)

ÆGIR

DEV STAGE PRODUCTION WITH AEGIR

With Aegir you can easily create clones, migrate or rename sites.

In BOA aliases with `.dev` aren't accessible by bots, and fall into development mode automatically.

MAKEFILES

```
api = 2
core = 8.x

projects[drupal][type] = "core"
projects[drupal][download][type] = "get"
projects[drupal][download][url] = "https://ftp.drupal.org/files/projects/
```

[click for a more complete example](#)

QUESTIONS?

*This presentation was made possible using open source software:
Reveal JS, Debian, VirtualBox.*