

**Build on
Chassis**

HM



Japh

@Japh

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Professional hand-holder. Collector of
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🔗 japh.com.au

🕒 Joined February 2007

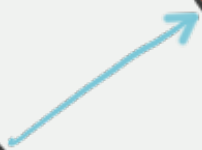
Build on Chassis

Introduction to a
Solid Development
Workflow

Problem

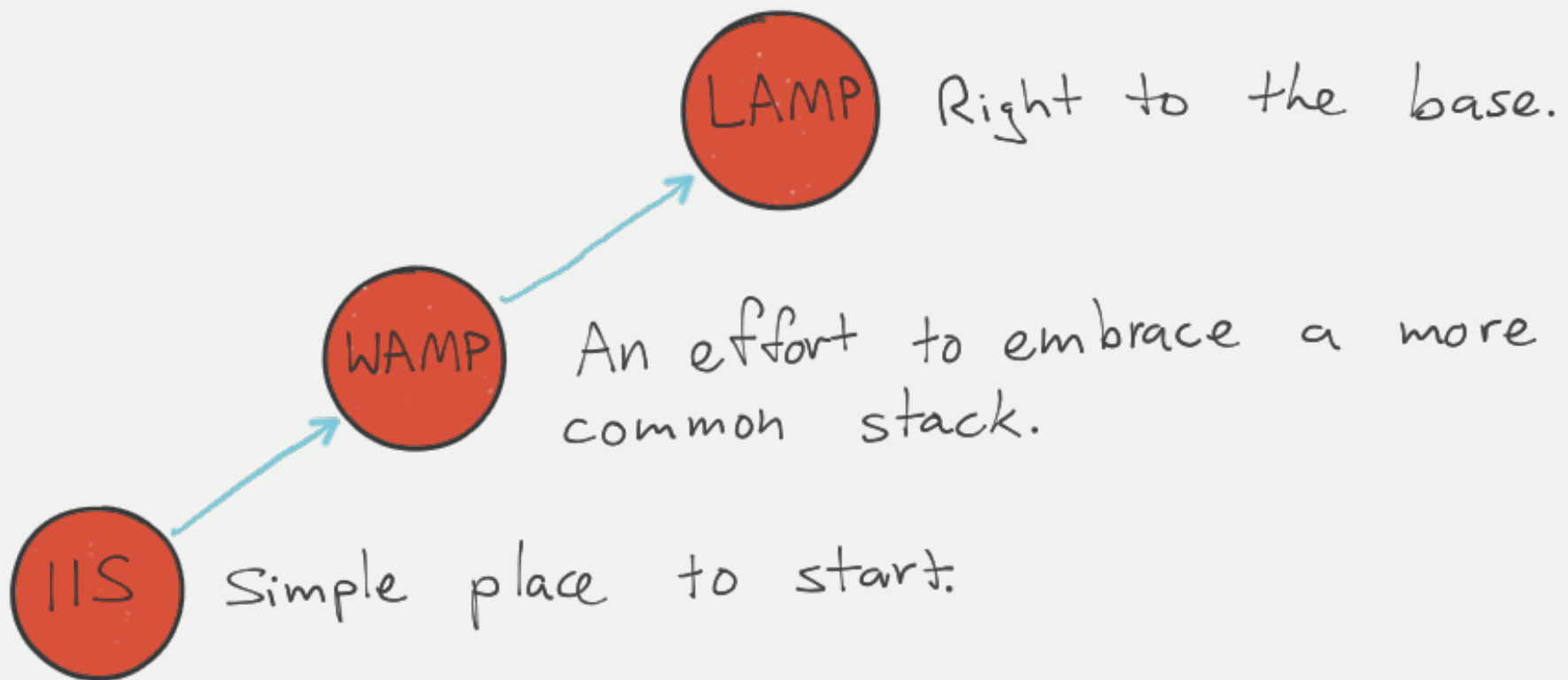


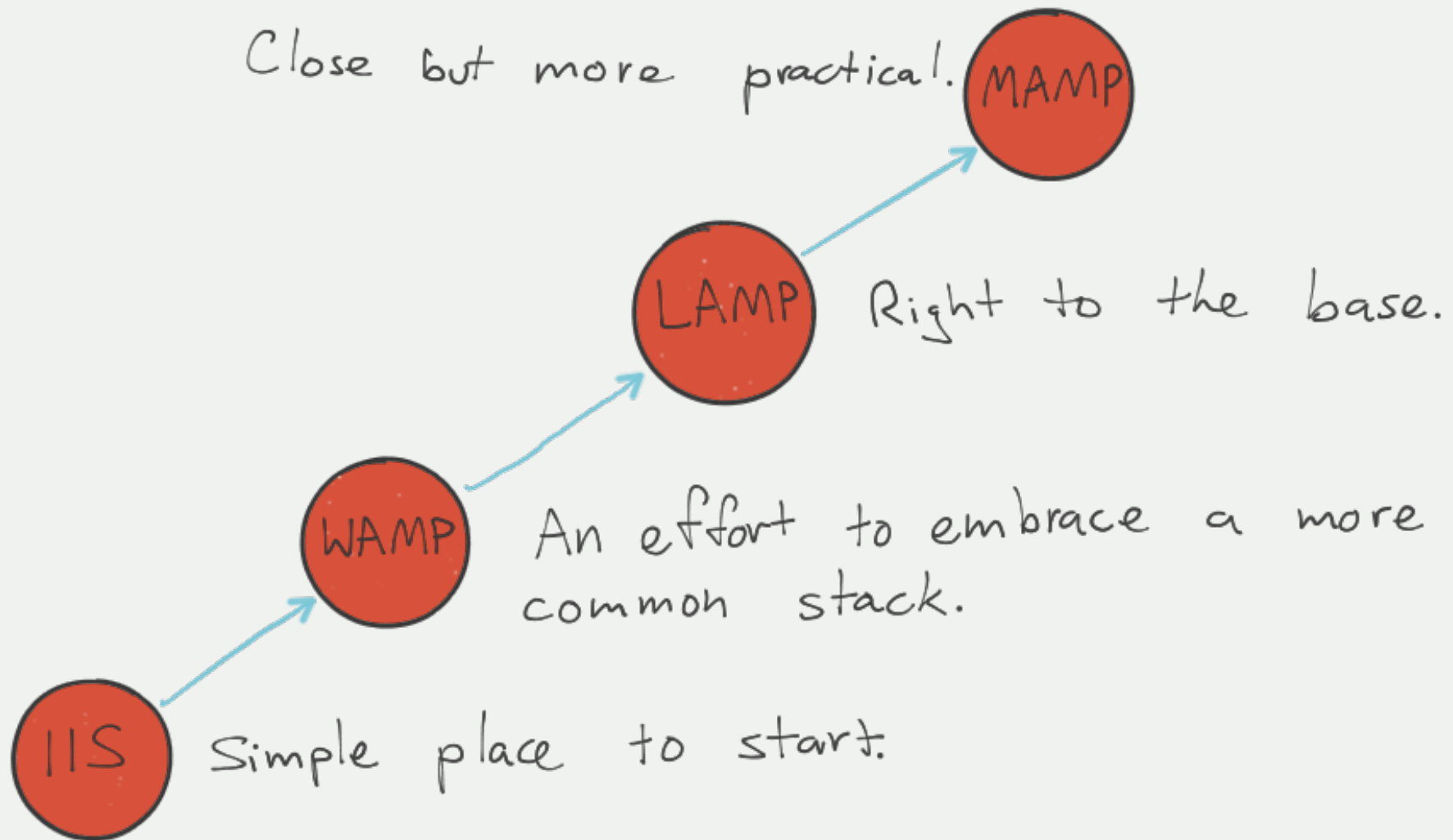
Simple place to start.

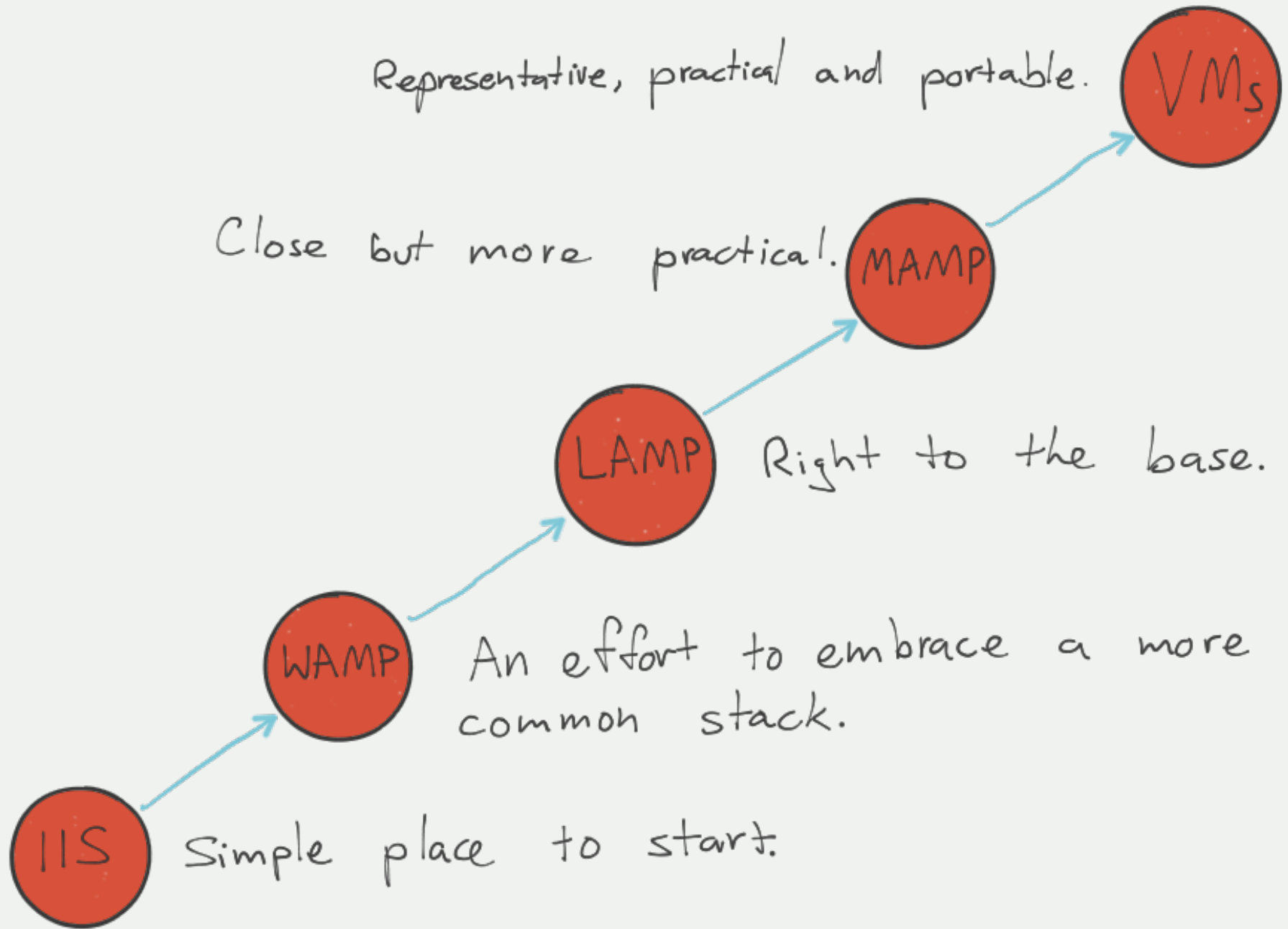


An effort to embrace a more common stack.

Simple place to start.







Vanilla

VVV

Bedrock

Chassis

Vanilla

New VM
each time.
Manual config.

Bedrock

VVV

Chassis

Vanilla

New VM
each time.
Manual config.

Bedrock

VVV

Popular.
One big VM
for all projects.

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New VM
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One big VM
for all projects.

Bedrock

Strong, professional
approach.
More complex.
Good deployment
Setup.

Chassis

Vanilla

New VM
each time.
Manual config.

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Chassis

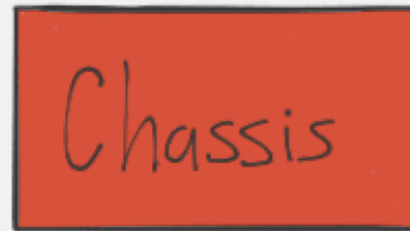
Simple to setup.
Per project VMs.

Tools





Version Control





Version Control



Environment





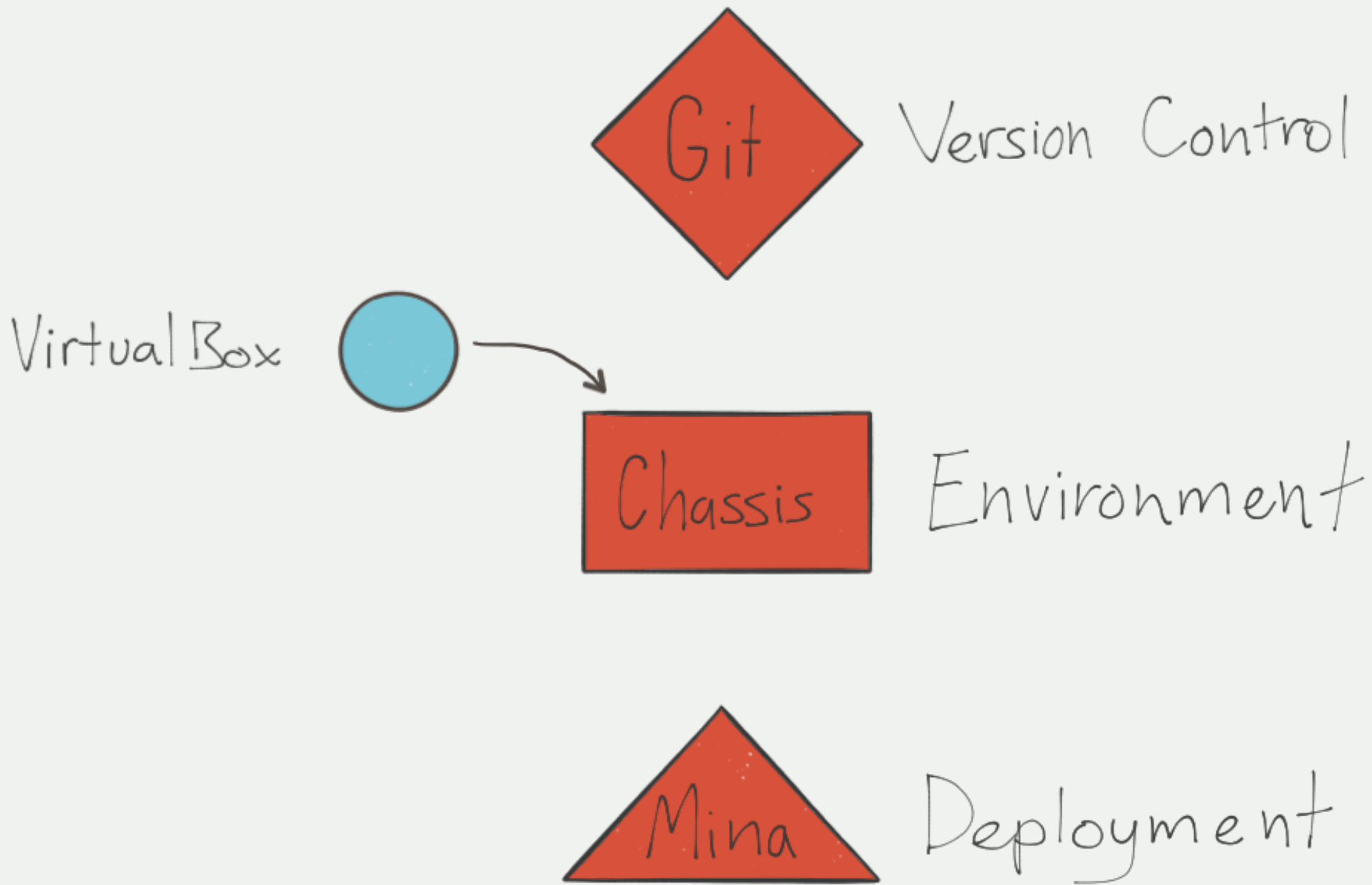
Version Control



Environment



Deployment





Version Control

Virtual Box



Vagrant



Environment



Deployment



Version Control

Virtual Box



Vagrant



Chassis



Environment



Deployment

Chassis

Chassis

Chassis

- Networking (Bonjour)

Chassis

- Networking (Bonjour)
- Puppet provisioning

Chassis

- Networking (Bonjour)
- Puppet provisioning
- WordPress Config

Chassis

- Networking (Bonjour)
- Puppet provisioning
- WordPress Config
- Extendable

Setup



Chassis



extensions



puppet



wp



Chassis



extensions



puppet



wp



content



Chassis



extensions



puppet



wp

Your
Project



content



Live Demo
Dance



3. japh@Arcadia: ~ (zsh)

~





3. japh@Arcadia: ~/Projects (zsh)

~

▶ cd Projects

~/Projects

▶

3. hub clone git@github.com:Japh/Chassis.git ./woc/ --recursive (git)

~

▶ cd Projects

~/Projects

▶ git clone git@github.com:Japh/Chassis.git ./woc/ --recursive

Cloning into './woc'...

remote: Counting objects: 5613, done.

remote: Compressing objects: 100% (6/6), done.

Receiving objects: 25% (1411/5613), 4.70 MiB | 541.00 KiB/s



3. japh@Arcadia: ~/Projects (zsh)

```
remote: Total 4973 (delta 0), reused 0 (delta 0), pack-reused 4973
Receiving objects: 100% (4973/4973), 1.07 MiB | 142.00 KiB/s, done.
Resolving deltas: 100% (2451/2451), done.
Checking connectivity... done.
Submodule path 'puppet/modules/mysql': checked out 'e2f3b54565e66693dd5a6617a45c
cdddf2f5e977'
Cloning into 'puppet/modules/stdlib'...
remote: Counting objects: 6695, done.
remote: Total 6695 (delta 0), reused 0 (delta 0), pack-reused 6695
Receiving objects: 100% (6695/6695), 1.36 MiB | 307.00 KiB/s, done.
Resolving deltas: 100% (2892/2892), done.
Checking connectivity... done.
Submodule path 'puppet/modules/stdlib': checked out '2a78cbfaad2acc61d6d8bab715d
b00c9890adbd7'
Cloning into 'puppet/modules/wp'...
remote: Counting objects: 207, done.
remote: Total 207 (delta 0), reused 0 (delta 0), pack-reused 207
Receiving objects: 100% (207/207), 27.62 KiB | 0 bytes/s, done.
Resolving deltas: 100% (92/92), done.
Checking connectivity... done.
Submodule path 'puppet/modules/wp': checked out '99cf7f5ebff3a8a7f9fb8163ff502a8
99ce552aa'
```

~/Projects





3. japh@Arcadia: ~/Projects/woc (zsh)

```
Checking connectivity... done.
Submodule path 'puppet/modules/mysql': checked out 'e2f3b54565e66693dd5a6617a45c
cddd2f5e977'
Cloning into 'puppet/modules/stdlib'...
remote: Counting objects: 6695, done.
remote: Total 6695 (delta 0), reused 0 (delta 0), pack-reused 6695
Receiving objects: 100% (6695/6695), 1.36 MiB | 236.00 KiB/s, done.
Resolving deltas: 100% (2892/2892), done.
Checking connectivity... done.
Submodule path 'puppet/modules/stdlib': checked out '2a78cbfaad2acc61d6d8bab715d
b00c9890adbd7'
Cloning into 'puppet/modules/wp'...
remote: Counting objects: 207, done.
remote: Total 207 (delta 0), reused 0 (delta 0), pack-reused 207
Receiving objects: 100% (207/207), 27.62 KiB | 0 bytes/s, done.
Resolving deltas: 100% (92/92), done.
Checking connectivity... done.
Submodule path 'puppet/modules/wp': checked out '99cf7f5ebff3a8a7f9fb8163ff502a8
99ce552aa'
```

~/Projects

▶ cd ./woc/

~/Projects/woc master ✓



20d



3. japh@Arcadia: ~/Projects/woc (zsh)

```
Receiving objects: 100% (6695/6695), 1.36 MiB | 381.00 KiB/s, done.  
Resolving deltas: 100% (2892/2892), done.  
Checking connectivity... done.  
Submodule path 'puppet/modules/stdlib': checked out '2a78cbfaad2acc61d6d8bab715d  
b00c9890adbd7'  
Cloning into 'puppet/modules/wp'...  
remote: Counting objects: 207, done.  
remote: Total 207 (delta 0), reused 0 (delta 0), pack-reused 207  
Receiving objects: 100% (207/207), 27.62 KiB | 0 bytes/s, done.  
Resolving deltas: 100% (92/92), done.  
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Submodule path 'puppet/modules/wp': checked out '99cf7f5ebff3a8a7f9fb8163ff502a8  
99ce552aa'
```

~/Projects

▶ cd ./woc/

~/Projects/woc master ✓

8m

▶ git clone git@bitbucket.org:Japh/woc-content.git ./content/

Cloning into './content'...

warning: You appear to have cloned an empty repository.

Checking connectivity... done.

~/Projects/woc master ✓

8m





3. japh@Arcadia: ~/Projects/woc (zsh)

```
Submodule path 'puppet/modules/stdlib': checked out '2a78cbfaad2acc61d6d8bab715d
b00c9890adbd7'
```

```
Cloning into 'puppet/modules/wp'...
```

```
remote: Counting objects: 207, done.
```

```
remote: Total 207 (delta 0), reused 0 (delta 0), pack-reused 207
```

```
Receiving objects: 100% (207/207), 27.62 KiB | 0 bytes/s, done.
```

```
Resolving deltas: 100% (92/92), done.
```

```
Checking connectivity... done.
```

```
Submodule path 'puppet/modules/wp': checked out '99cf7f5ebff3a8a7f9fb8163ff502a8
99ce552aa'
```

```
~/Projects
```

```
▶ cd ./woc/
```

```
~/Projects/woc master ✓
```

8m

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▶ git clone git@bitbucket.org:Japh/woc-content.git ./content/
```

```
Cloning into './content'...
```

```
warning: You appear to have cloned an empty repository.
```

```
Checking connectivity... done.
```

```
~/Projects/woc master ✓
```

8m

```
▶ cp local-config-sample.php local-config.php
```

```
~/Projects/woc master ✓
```

9m

```
▶ █
```




3. japh@Arcadia: ~/Projects/woc (zsh)

```
remote: Counting objects: 207, done.  
remote: Total 207 (delta 0), reused 0 (delta 0), pack-reused 207  
Receiving objects: 100% (207/207), 27.62 KiB | 0 bytes/s, done.  
Resolving deltas: 100% (92/92), done.  
Checking connectivity... done.  
Submodule path 'puppet/modules/wp': checked out '99cf7f5ebff3a8a7f9fb8163ff502a899ce552aa'
```

~/Projects

▶ cd ./woc/

~/Projects/woc master ✓ 8m

▶ git clone git@bitbucket.org:Japh/woc-content.git ./content/
Cloning into './content'...

warning: You appear to have cloned an empty repository.
Checking connectivity... done.

~/Projects/woc master ✓ 8m

▶ cp local-config-sample.php local-config.php

~/Projects/woc master ✓ 9m

▶ cp config.yaml content/config.local.yaml

~/Projects/woc master ✓ 11m

▶ █



3. japh@Arcadia: ~/Projects/woc (zsh)

```
remote: Counting objects: 207, done.  
remote: Total 207 (delta 0), reused 0 (delta 0), pack-reused 207  
Receiving objects: 100% (207/207), 27.62 KiB | 0 bytes/s, done.  
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Submodule path 'puppet/modules/wp': checked out '99cf7f5ebff3a8a7f9fb8163ff502a8  
99ce552aa'
```

~/Projects

```
▶ cd ./woc/
```

~/Projects/woc master ✓ 8m

```
▶ git clone git@bitbucket.org:Japh/woc-content.git ./content/  
Cloning into './content'...  
warning: You appear to have cloned an empty repository.  
Checking connectivity... done.
```

~/Projects/woc master ✓ 8m

```
▶ cp local-config-sample.php local-config.php
```

~/Projects/woc master ✓ 9m

```
▶ cp config.yaml content/config.local.yaml
```

~/Projects/woc master ✓ 11m

```
▶ vi content/config.local.yaml
```



3. vi content/config.local.yaml (vim)

```
# Chassis Configuration
#
# This file is the default configuration for all projects. The fallback order of
# configuration files is:
#
# - project/content/config.local.yaml    (project-specific overrides)
# - project/content/config.yaml         (project-specific defaults)
# - project/config.local.yaml           (global overrides)
# - project/config.yaml                 (global defaults)
#
# Domain names to use for Vagrant
#
# The first name will be used as the machine's name, subsequent names will be
# aliased in your hosts file and in nginx
#
# (When overriding, include vagrant.local if you need it)
hosts:
  - vagrant.local
#
# IP address to use on the private network
#
# DHCP is used by default to assign IP addresses dynamically, override only if
# you need a static IP for your box.
#
"content/config.local.yaml" 66L, 1895C
```

3. vi content/config.local.yaml (vim)

```
# Chassis Configuration
#
# This file is the default configuration for all projects. The fallback order of
# configuration files is:
#
# - project/content/config.local.yaml    (project-specific overrides)
# - project/content/config.yaml         (project-specific defaults)
# - project/config.local.yaml           (global overrides)
# - project/config.yaml                 (global defaults)
#
# Domain names to use for Vagrant
#
# The first name will be used as the machine's name, subsequent names will be
# aliased in your hosts file and in nginx
#
# (When overriding, include vagrant.local if you need it)
hosts:
  - woc.local
  - vagrant.local
#
# IP address to use on the private network
#
# DHCP is used by default to assign IP addresses dynamically, override only if
# you need a static IP for your box.
"content/config.local.yaml" 67L, 1911C written
```

```
3. japh@Arcadia: ~/Projects/woc (vim)
Resolving deltas: 100% (92/92), done.
Checking connectivity... done.
Submodule path 'puppet/modules/wp': checked out '99cf7f5ebff3a8a7f9fb8163ff502a899ce552aa'

~/Projects
▶ cd ./woc/

~/Projects/woc master ✓ 8m
▶ git clone git@bitbucket.org:Japh/woc-content.git ./content/
Cloning into './content'...
warning: You appear to have cloned an empty repository.
Checking connectivity... done.

~/Projects/woc master ✓ 8m
▶ cp local-config-sample.php local-config.php

~/Projects/woc master ✓ 9m
▶ cp config.yaml content/config.local.yaml

~/Projects/woc master ✓ 11m
▶ vi content/config.local.yaml

~/Projects/woc master ✓ 13m
▶ █
```

```
3. japh@Arcadia: ~/Projects/woc (zsh)
Resolving deltas: 100% (92/92), done.
Checking connectivity... done.
Submodule path 'puppet/modules/wp': checked out '99cf7f5ebff3a8a7f9fb8163ff502a899ce552aa'

~/Projects
▶ cd ./woc/

~/Projects/woc master ✓ 8m
▶ git clone git@bitbucket.org:Japh/woc-content.git ./content/
Cloning into './content'...
warning: You appear to have cloned an empty repository.
Checking connectivity... done.

~/Projects/woc master ✓ 8m
▶ cp local-config-sample.php local-config.php

~/Projects/woc master ✓ 9m
▶ cp config.yaml content/config.local.yaml

~/Projects/woc master ✓ 11m
▶ vi content/config.local.yaml

~/Projects/woc master ✓ 13m
▶ vagrant up
```

3. vagrant up (ruby)

99ce552aa'

~/Projects

▶ cd ./woc/

~/Projects/woc master ✓

8m

▶ git clone git@bitbucket.org:Japh/woc-content.git ./content/
Cloning into './content'...

warning: You appear to have cloned an empty repository.
Checking connectivity... done.

~/Projects/woc master ✓

8m

▶ cp local-config-sample.php local-config.php

~/Projects/woc master ✓

9m

▶ cp config.yaml content/config.local.yaml

~/Projects/woc master ✓

11m

▶ vi content/config.local.yaml

~/Projects/woc master ✓

13m

▶ vagrant up

Bringing machine 'default' up with 'virtualbox' provider...

==> default: Importing base box 'hashicorp/precise64'...

Progress: 90% █





```
3. japh@Arcadia: ~/Projects/woc (zsh)
cal]/Mysql::Db[wordpress]/Database_user[wordpress@localhost]/ensure: created
==> default: Notice: /Stage[main]/Main/Senna::Wp[woc.local]/Senna::Site[woc.lo
cal]/Mysql::Db[wordpress]/Database_grant[wordpress@localhost/wordpress]/privileg
es: privileges changed '' to 'all'
==> default: Notice: /Stage[main]/Main/Senna::Wp[woc.local]/Senna::Site[woc.lo
cal]/Wp::Site[/vagrant/wp]/Exec[wp install /vagrant/wp]/returns: executed succes
sfully
==> default: Notice: /Stage[main]/Main/Senna::Wp[woc.local]/File[/vagrant/local
-config-extensions.php]/ensure: defined content as '{md5}7d38d164c0b6117d30720ef
700bf61b7'
==> default: Notice: Finished catalog run in 344.17 seconds
==> default: Running provisioner: shell...
    default: Running: /var/folders/3w/ythd_f0s4vsb48nh0zhc7vw80000gn/T/vagrant-s
hell20150527-4121-18q75rb.sh
==> default: stdin: is not a tty
==> default: =====
==> default: Your Chassis box has been provisioned!
==> default: =====
==> default:
==> default: URL: http://woc.local/
==> default: Username: admin
==> default: Password: password

~/Projects/woc  master ✓ 22m
▶
```

WordPress Site › Log In x Japheth

woc.local/wp/wp-login.php?redirect_to=http%... ☆ ⓘ 📷 I ⬠ ☰



Username

Password

Remember Me

Dashboard · WordPress Sit x Japheth

woc.local/wp/wp-admin/

Dashboard

Welcome to WordPress! Dismiss

We've assembled some links to get you started:

Get Started

[Customize Your Site](#)

or, [change your theme completely](#)

Next Steps

[Write your first blog post](#) + [Add an About page](#) [View your site](#)

More Actions

Dashboard · WordPress Sit x Japheth

woc.local/wp/wp-admin/

Dashboard

At a Glance

1 Post 1 Page

1 Comment

WordPress 4.2.2 running [Twenty Fifteen](#) theme.

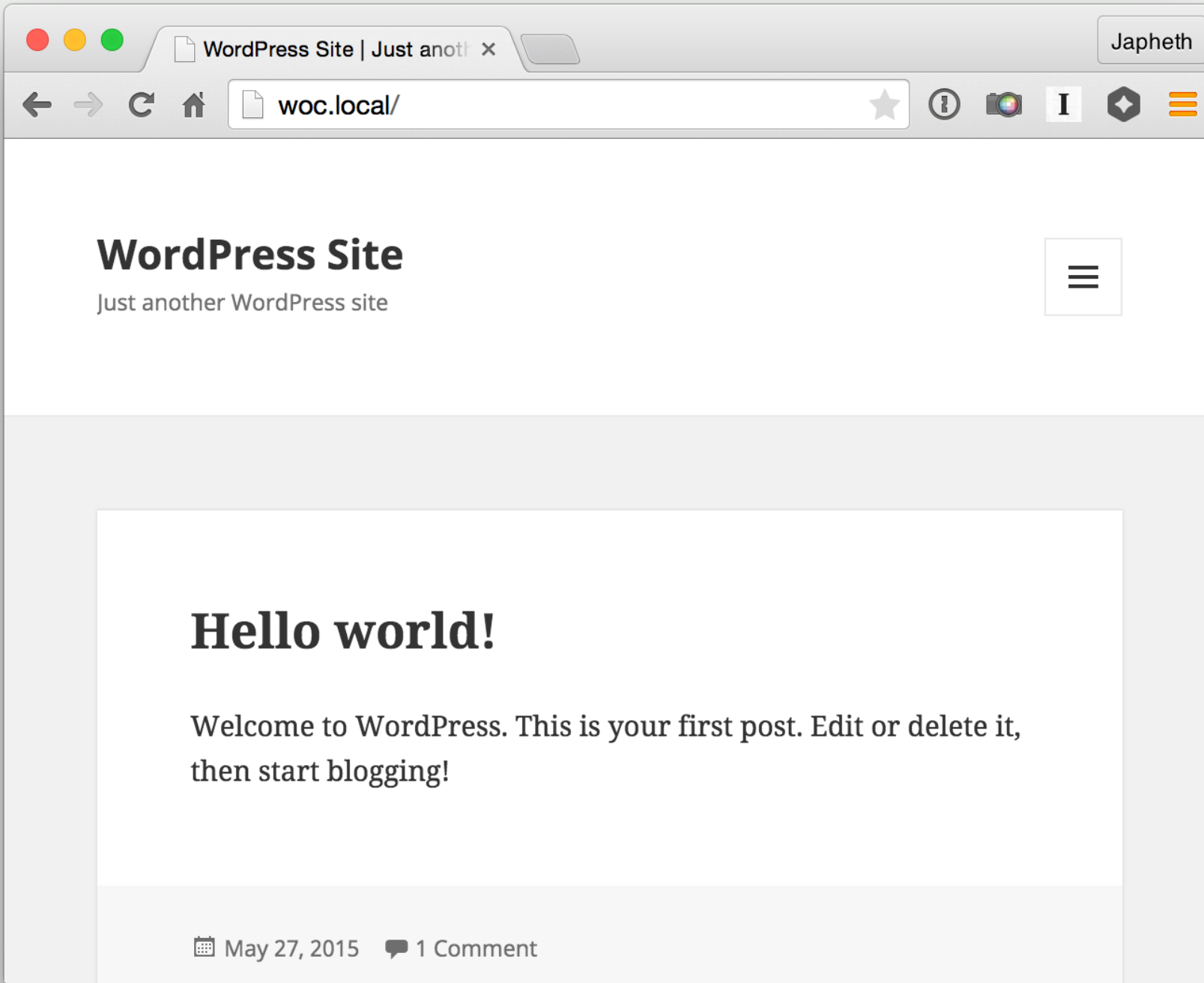
Activity

Recently Published

Today, 8:24 am [Hello world!](#)

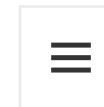
Comments

From [Mr WordPress](#) on [Hello world!](#) #



WordPress Site

Just another WordPress site



Hello world!

Welcome to WordPress. This is your first post. Edit or delete it, then start blogging!

 May 27, 2015  1 Comment



Dashboard · Woolley, Owen x Japheth

woc.local/wp/wp-admin/

Dashboard

At a Glance ▲

30 Pages

WordPress 4.2.2 running [Coffee Break](#) theme.

Activity ▼

Wordfence activity in the past 2 weeks ▼

Stream Activity ▼

Woolley, Owen & Coogan - x Japheth

woc.local/

Woolley, Owen & Coogan
Certified Practising Accountants

HOME SERVICES » RESOURCES » STAFF

Income tax returns and financial accounts for businesses

Our accountants can assist business entities in their income tax return preparation and financial accounts for businesses including sole-traders, partnerships, trusts, companies and self-managed superannuation funds.

Flow

Production



Staging



Local



Production



Sync
Down



Staging



Local



Production



Sync
Down



Staging

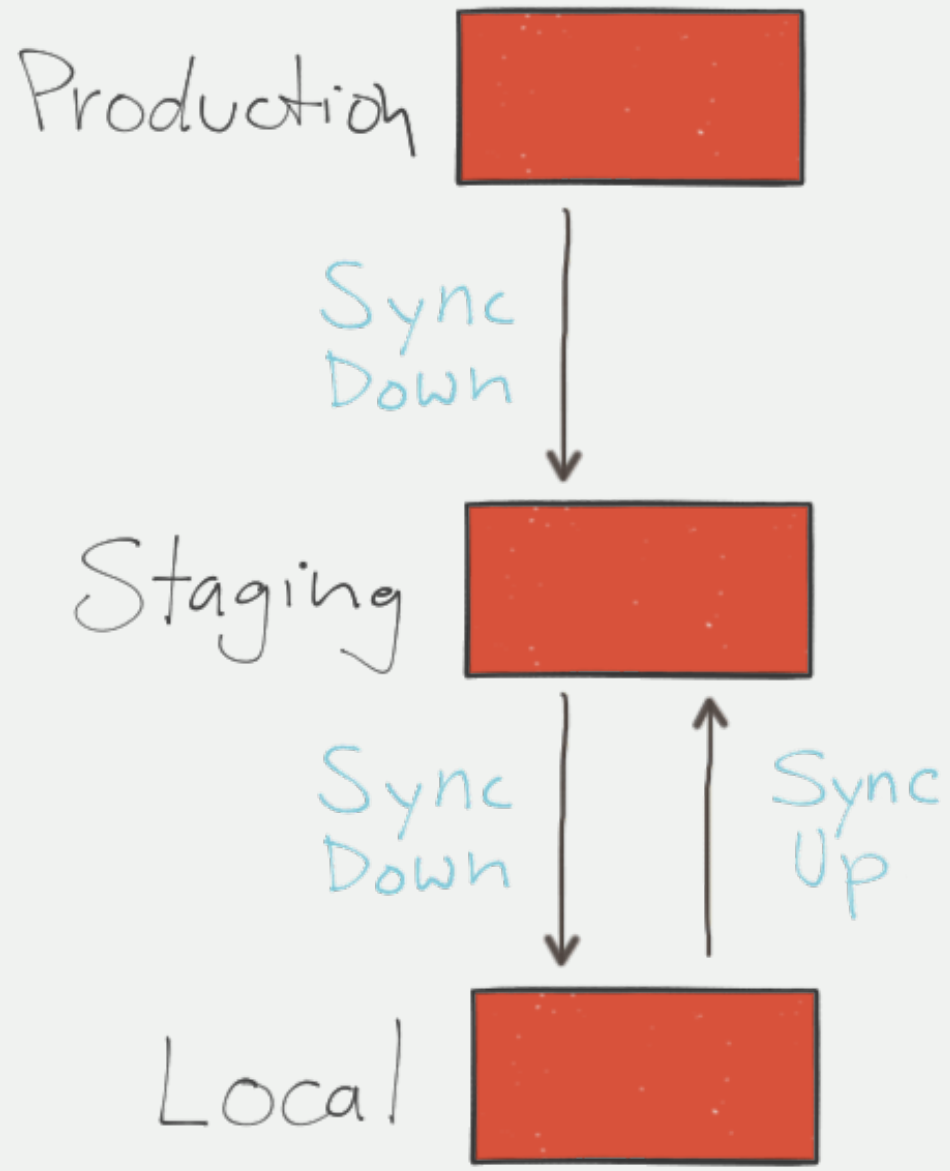


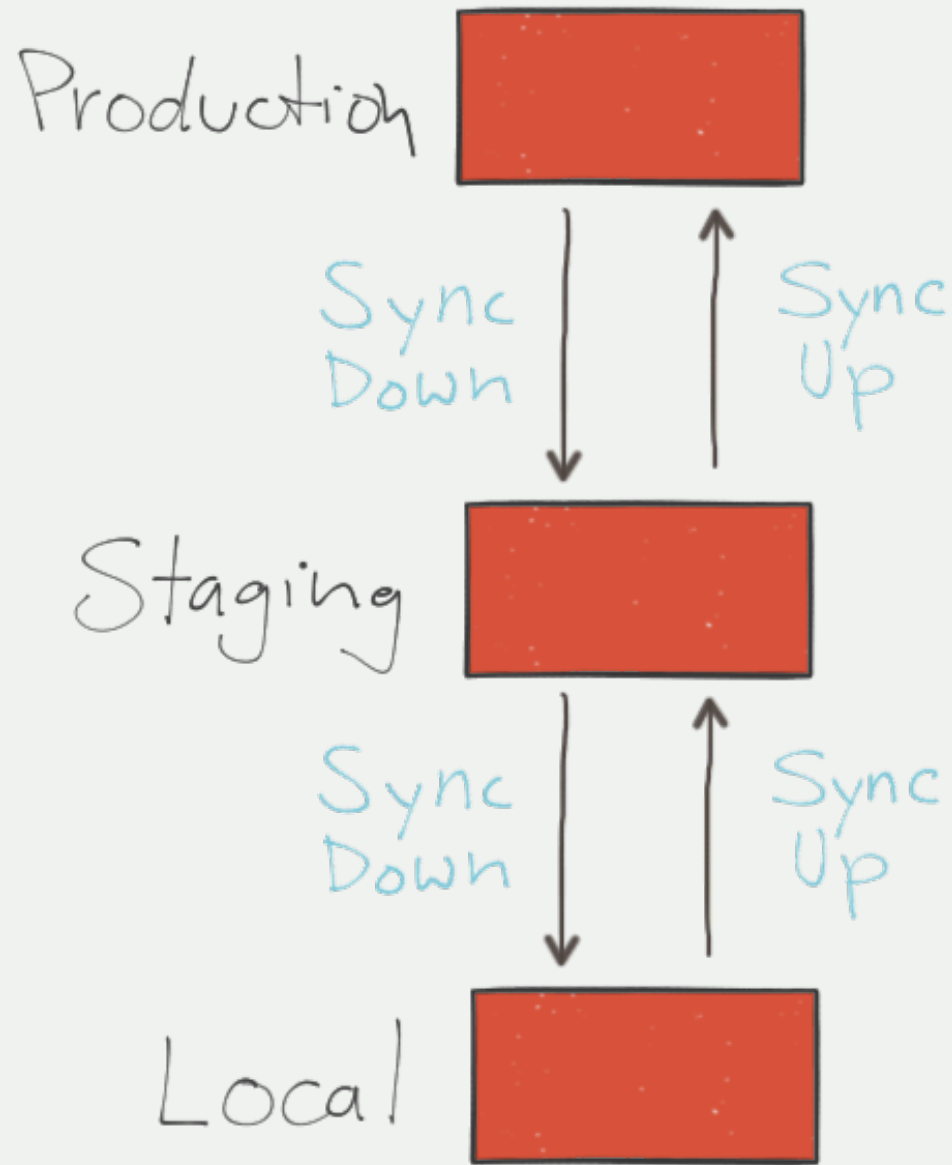
Sync
Down

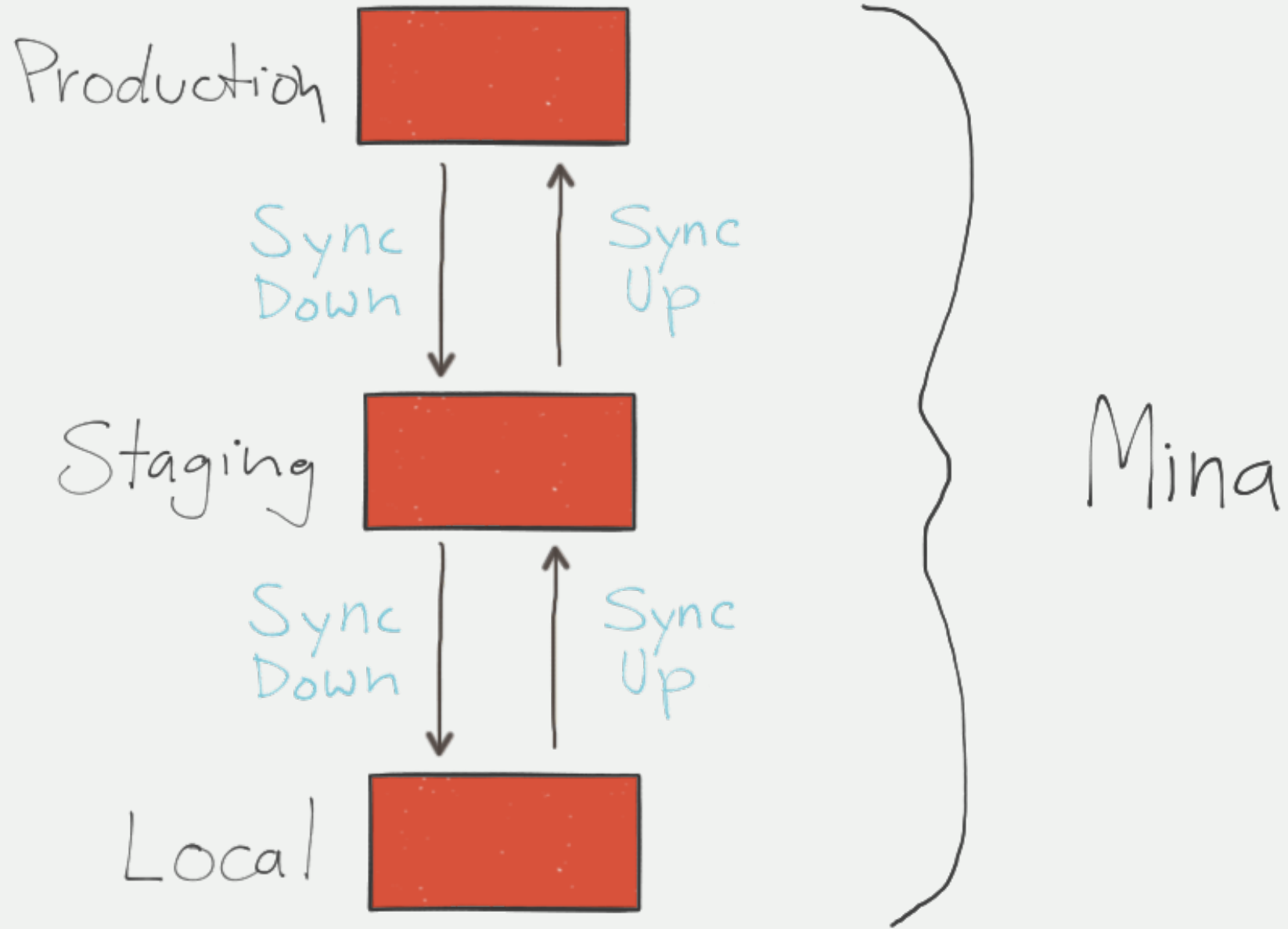


Local









Live Demo
Dance



3. japh@Arcadia: ~/Projects/woc (zsh)

~/Projects/woc master ✓

6h19m





3. japh@Arcadia: ~/Projects/woc (zsh)

~/Projects/woc master ✓ 6h19m

▶ cp ./config/mina-local-sample.rb ./config/mina-local.rb

~/Projects/woc master ✓ 6h20m

▶



3. japh@Arcadia: ~/Projects/woc (zsh)

~/Projects/woc master ✓ 6h21m

▶ cp ./config/mina-local-sample.rb ./config/mina-local.rb

~/Projects/woc master ✓ 6h21m

▶ vi ./config/mina-local.rb

```
1  set :hostname, "yourdomain.com"
2  set :domain, "server_ip_address"
3  set :dev, "vagrant.local"
4  set :home_dir, "/var/www/"
5  set :deploy_to, "#{home_dir}/wordpress"
6  set :repository, "git@github.com:Username/your-project-repo.git"
7  set :branch, "master"
8  set :php_path, "/usr/bin"
9
10 # Manually create these paths in shared/ (eg: shared/config/datab
11 # They will be linked in the 'deploy:link_shared_paths' step.
12 set :shared_paths, ["uploads"] # Add any others you also need.
13
14 # Optional settings:
15 set :user, "username" # Username in the server to SSH to.
16 set :port, "22" # SSH port number.
17 set :forward_agent, true # Forward SSH agent.
18
```

```
1  set :hostname, "woc.japh.com.au" # The
2  set :domain, "54.66.178.113" # The
3  set :dev, "woc.local" # The
4  set :home_dir, "/srv/users/serverpilot" # Home
5  set :deploy_to, "#{home_dir}/apps/woc" # The
6  set :repository, "git@bitbucket.org:Japh/woc-content.git" # Your
7  set :branch, "master" # The
8  set :php_path, "/opt/sp/php5.6/bin" # Path
9
10 # Manually create these paths in shared/ (eg: shared/config/datab
11 # They will be linked in the 'deploy:link_shared_paths' step.
12 set :shared_paths, ["uploads"] # Add any others you also need.
13
14 # Optional settings:
15 set :user, "serverpilot" # Username in the server to SSH to.
16 set :port, "22" # SSH port number.
17 set :forward_agent, true # Forward SSH agent.
18
```



3. japh@Arcadia: ~/Projects/woc (zsh)

~/Projects/woc master ✓ 6h21m

▶ cp ./config/mina-local-sample.rb ./config/mina-local.rb

~/Projects/woc master ✓ 6h21m

▶ vi ./config/mina-local.rb

```
3. japh@Arcadia: ~/Projects/woc (zsh)

~/Projects/woc master ✓ 6h21m
▶ cp ./config/mina-local-sample.rb ./config/mina-local.rb

~/Projects/woc master ✓ 6h21m
▶ vi ./config/mina-local.rb

~/Projects/woc master ✓ 6h22m
▶ mina setup
-----> Loading environment
-----> Setting up /srv/users/serverpilot/apps/woc

total 20
drwxr-xr-x 5 serverpilot serverpilot 4096 May 27 14:43 .
drwxr-x--x 3 root          serverpilot 4096 May 27 13:50 ..
drwxr-xr-x 5 serverpilot serverpilot 4096 May 27 14:03 public
drwxrwxr-x 2 serverpilot serverpilot 4096 May 27 14:43 releases
drwxrwxr-x 6 serverpilot serverpilot 4096 May 27 14:43 shared

-----> Done.
      Elapsed time: 3.01 seconds

~/Projects/woc master ✓ 6h41m
▶ █
```

3. mina deploy (ruby)

```
~/Projects/woc master ✓ 3m
▶ vi ./config/mina-local.rb

~/Projects/woc master ✓ 3m
▶ mina setup
-----> Loading environment
-----> Setting up /srv/users/serverpilot/apps/woc

total 20
drwxr-xr-x 5 serverpilot serverpilot 4096 May 27 15:57 .
drwxr-x--x 3 root          serverpilot 4096 May 27 13:50 ..
drwxr-xr-x 4 serverpilot serverpilot 4096 May 27 15:53 public
drwxrwxr-x 2 serverpilot serverpilot 4096 May 27 15:57 releases
drwxrwxr-x 2 serverpilot serverpilot 4096 May 27 15:57 shared

-----> Done.
Elapsed time: 0.85 seconds

~/Projects/woc master ✓ 3m
▶ mina deploy
-----> Loading environment
-----> Creating a temporary build path
-----> Cloning the Git repository
      Cloning into bare repository '/srv/users/serverpilot/apps/woc/scm'...
```



```
3. japh@Arcadia: ~/Projects/woc (zsh)
-----> Cloning the Git repository
          Cloning into bare repository '/srv/users/serverpilot/apps/woc/scm'...
-----> Using git branch 'master'
          Cloning into '.'...
          done.
-----> Using this git commit

          Japh (459e5f1):
          > Removing temporary cache config file

-----> Symlinking shared paths
-----> Cleaning up old releases (keeping 5)
          ls: cannot access [0-9]*: No such file or directory
          ls: cannot access [0-9]*: No such file or directory
-----> Update permalink structure
          Success: Rewrite structure set.
-----> Build finished
-----> Moving build to releases/1
-----> Updating the current symlink
-----> Launching
-----> Done. Deployed v1
          Elapsed time: 13.09 seconds

~/Projects/woc  master ✓ 3m
```

```
3. mina migrate_dev2prod (sh)
  Cloning into bare repository '/srv/users/serverpilot/apps/woc/scm'...
-----> Using git branch 'master'
  Cloning into '.'...
  done.
-----> Using this git commit

  Japh (459e5f1):
  > Removing temporary cache config file

-----> Symlinking shared paths
-----> Cleaning up old releases (keeping 5)
  ls: cannot access [0-9]*: No such file or directory
  ls: cannot access [0-9]*: No such file or directory
-----> Update permalink structure
  Success: Rewrite structure set.
-----> Build finished
-----> Moving build to releases/1
-----> Updating the current symlink
-----> Launching
-----> Done. Deployed v1
  Elapsed time: 13.09 seconds

~/Projects/woc master ✓
▶ mina migrate_dev2prod
```

3m

```
3. japh@Arcadia: ~/Projects/woc (zsh)
| wp_users      | user_email      | 1          | SQL |
| wp_users      | user_url        | 0          | SQL |
| wp_users      | user_activation_key | 0          | SQL |
| wp_users      | display_name    | 0          | SQL |
+-----+-----+-----+-----+
Success: Made 460 replacements.
----> Uploading backup 2015528_2120.sql.gz to woc.japh.com.au:/srv/users/serverpilot/apps/woc/shared/backup/

----> Removing file from directory

----> Loading environment
----> Decompressing database export 2015528_2120.sql.gz
----> Importing /srv/users/serverpilot/apps/woc/shared/backup/2015528_2120.sql to database
Success: Imported from /srv/users/serverpilot/apps/woc/shared/backup/2015528_2120.sql
----> Removing file from server
      Elapsed time: 1.72 seconds
----> Loading environment
Connection to 54.66.178.113 closed.
      Elapsed time: 10.43 seconds

~/Projects/woc master ✓ 7m
```



3. japh@Arcadia: ~/Projects/woc (zsh)

Success: Made 460 replacements.

----> Uploading backup 2015528_2120.sql.gz to woc.japh.com.au:/srv/users/serverpilot/apps/woc/shared/backup/

----> Removing file from directory

----> Loading environment

----> Decompressing database export 2015528_2120.sql.gz

----> Importing /srv/users/serverpilot/apps/woc/shared/backup/2015528_2120.sql to database

Success: Imported from /srv/users/serverpilot/apps/woc/shared/backup/2015528_2120.sql

----> Removing file from server

Elapsed time: 1.72 seconds

----> Loading environment

Connection to 54.66.178.113 closed.

Elapsed time: 10.43 seconds

~/Projects/woc master ✓

7m

▶ mina push_uploads

----> Uploading uploads from development

~/Projects/woc master ✓

0m



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Woolley, Owen & Coogan
Certified Practising Accountants

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Our accountants can assist business entities in their income tax return preparation and financial accounts for businesses including sole-traders, partnerships, trusts, companies and self-managed superannuation funds.

Thank You!

@Japh

<http://hmn.md>

Thank You!

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Questions?