

Tips, Tricks and Tools  
for managing one or more medium  
to large CiviCRM installs

CiviCon 2012

# Maintenance best practices

Drush & “drush make”

[drupal.org/project/drush](https://drupal.org/project/drush)

[drupal.org/project/drush\\_make](https://drupal.org/project/drush_make)

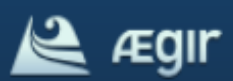
# Configuring environments

## Sysadmin tasks

- Apache / nginx
- php5-gd, php5-apc, ..
- Mysql
- Nagios checks
- Munin graphs
- Backups

## Webdev tasks

- Deploy code (Drupal core, modules, CiviCRM) using drush makefiles
- Create sites, upgrade, clone
- Moves sites from dev / stage / production



# Home

### Site tasks

Verify

<input type="checkbox"/>	Site	Profile	Language	Created	Platform
<input type="checkbox"/>	test9.aegir.localhost	Standard	English	22 weeks ago	CiviCRM 4.1-TRUNK
<input type="checkbox"/>	site8.aegir.localhost	Standard	English	22 weeks ago	CiviCRM 4.1-TRUNK
<input type="checkbox"/>	site6.aegir.localhost	Standard	English	22 weeks ago	CiviCRM 4.1-TRUNK
<input type="checkbox"/>	site5.aegir.localhost	Standard	English	22 weeks ago	CiviCRM 4.1-TRUNK
<input type="checkbox"/>	site2.aegir.localhost	Standard	English	22 weeks ago	CiviCRM 4.1-TRUNK
<input type="checkbox"/>	site1.aegir.localhost	Standard	English	23 weeks ago	CiviCRM 4.0.6 - 2
<input type="checkbox"/>	aqaba.net4.bidon.ca	Hostmaster	English	23 weeks ago	hostmaster-6.x-1.7

### Queues

Task	Actions
<input checked="" type="checkbox"/> Delete civi test	<input type="button" value="View"/>
<input checked="" type="checkbox"/> Verify aqaba.net4.bidon.ca	<input type="button" value="View"/>
<input checked="" type="checkbox"/> Verify hostmaster-6.x-1.7	<input type="button" value="View"/>
<input checked="" type="checkbox"/> Verify hostmaster-6.x-1.6	<input type="button" value="View"/>
<input checked="" type="checkbox"/> Verify civi test	<input type="button" value="View"/>

More tasks

### admin

- 
-



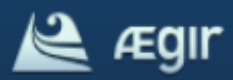
# Platforms

Platform	Release	Server	Verified	Sites
CivCRM 4.0.0 - 2	drupal 7.8	aqaba	23 weeks ago	1
CivCRM 4.1-TRUNK	drupal 7.8	aqaba	22 weeks ago	5
hostmaster	drupal 6.22	aqaba	24 weeks ago	0
hostmaster-6.x-1.5	drupal 6.22	aqaba	14 weeks ago	0
hostmaster 6.x-1.7	drupal 6.25	aqaba	18 hours ago	1
Total sites hosted				7

### QUEUES

Task	Actions
Delete civ test	<a href="#">View</a>
Verify aqaba.net4.bidon.ca	<a href="#">View</a>
Verify hostmaster-6.x-1.7	<a href="#">View</a>
Verify hostmaster-6.x-1.6	<a href="#">View</a>
Verify civ test	<a href="#">View</a>

[More tasks](#)



# Servers

Server	Database	Web
aqaba	No	apache
localhost	mysql	No

## Queues

Task	Actions
Delete civi test	<a href="#">View</a>
Verify aqaba.net4.bidon.ca	<a href="#">View</a>
Verify hostmaster-6.x-1.7	<a href="#">View</a>
Verify hostmaster-6.x-1.6	<a href="#">View</a>
Verify civi test	<a href="#">View</a>

[More tasks](#)

admin

# Create Platform

**Name: \***

Choose a unique descriptive name for your platform. You very likely want this to be something like "Drupal 6.20".

**Publish path: \***

The absolute path on the filesystem where the sites will be hosted. This needs to be created manually and initialized before your platform works properly. It also needs to be a unique path not already in use by a platform on any server. For example, run the following shell commands:

```
cd /var/aegir/platforms  
drush dl drupal
```

Your publish path is the absolute path to the directory that gets created. Alternatively, you can specify a makefile below, and the platform will be created automatically if the path specified here does not exist. You are still required to enter the absolute path above, as it will be treated as the target directory by the makefile.

**Makefile:**

The absolute path on the filesystem or public URL of a makefile that will be used to create the platform in the directory specified above. If the directory already exists, this file will be ignored.

**Platform access control:**

admin

Grant access to this platform for relevant clients where required. Leave all checkboxes unchecked to grant all clients access to this platform.

Save



# Create Site

**Domain name:** \*

**Client:** \*

The client who this site belongs to.

**Install profile:** \*

- Drupal
- Standard
- Testing
- Minimal

The type of site to install.

The profile selected here determines the list of supported platforms below.

**Platform:** \*

- CiviCRM 4.0.6 - 2
- CiviCRM 4.1-TRUNK

The platform you want the site to be hosted on.

Not seeing a certain platform? Platforms shown are those that support the profile above. If a different profile is selected, this list may change automatically.

**Language:**


The language of site being installed.

**Database server:** \*

- localhost

The database server the site will use to host its content.

Submitted by [admin](#) on Fri, 10/28/2011 - 12:06[Go to test9.aegir.localhost](#)Database server: [localhost](#)Status: [Enabled](#)Language: [English](#)IP addresses: [127.0.1.1](#)Install profile: [Standard](#)Verified: [22 weeks ago](#)Platform: [CiviCRM 4.1-TRUNK](#)Client: [admin](#)Cron run: [15 min ago](#)

Task	Actions	
 <a href="#">Install</a>	<a href="#">View</a>	<a href="#">Run</a>
<a href="#">Backup</a>	<a href="#">View</a>	<a href="#">Run</a>
<a href="#">Delete backups</a>	<a href="#">View</a>	<a href="#">Run</a>
<a href="#">Clone</a>	<a href="#">View</a>	<a href="#">Run</a>
<a href="#">Delete</a>	<a href="#">View</a>	<a href="#">Run</a>
<a href="#">Disable</a>	<a href="#">View</a>	<a href="#">Run</a>
<a href="#">Reset password</a>	<a href="#">View</a>	<a href="#">Run</a>
<a href="#">Migrate</a>	<a href="#">View</a>	<a href="#">Run</a>
<a href="#">Restore</a>	<a href="#">View</a>	<a href="#">Run</a>
<a href="#">Verify</a>	<a href="#">View</a>	<a href="#">Run</a>

# Aegir installation

- Add Aegir's Debian repository to APT
- “apt-get install aegir”

Aegir can import existing platforms/sites.

More information:

[community.aegirproject.org](http://community.aegirproject.org)

[drupal.org/project/provision\\_civicrm](http://drupal.org/project/provision_civicrm)

# More fun stuff

- Aegir-up

[www.drupal.org/project/aegir-up](http://www.drupal.org/project/aegir-up)

- Hosting CiviCRM cron

[drupal.org/project/hosting\\_civicrm\\_cron](http://drupal.org/project/hosting_civicrm_cron)

Puppet

# Puppet – node configuration

```
node "xyz.vps.example.net" {
  $nagios_parents = "vps-server-a.example.net"
  $service_level = "production"
  $apache2_ssl = 'enabled'

  include koumbit::vserver
  include koumbit::munin
  include koumbit::service::apache2
  include koumbit::service::mysql

  postfix::mailalias { "aegir": recipient => "mlutfy"; }

  nagios::service {
    "www.example.org_ssl":
      check_command => "check_virtual_https!www.example.org!/";
    "www.example.org_ssl_cert":
      check_command => "https_port_cert!443!21";
  }
}
```

# Puppet – node

```
backupninja::rdiff { "main":  
  installkey => false,  
  host => "backup.koumbit.net",  
  keep => "5D",  
  type => "remote",  
  home => "/backup/$fqdn",  
  user => "backup-$hostname",  
  include => [ "/var/spool/cron/crontabs",  
              "/var/backups", "/etc", "/root", "/usr/local/*bin", "/var/lib/dpkg/status*",  
              "/var/lib", "/var/aegir" ],  
  key => "AAAAB3[...]",  
  backupkeytype => "dsa",  
}
```

# Puppet - class

```
class koumbit::sudo {  
  package { 'sudo': ensure => installed, }  
}
```



# Puppet – class

```
class koumbit::sudo {
  package { 'sudo': ensure => installed, }

  file { ["/etc/sudoers":
    mode => 440, owner => root, group => 0,
  ]
  if $operatingsystem == 'FreeBSD' {
    File["/etc/sudoers"] {
      path => "/usr/local/etc/sudoers",
      source => [ "puppet://$servername/secrets/sudoers.$fqdn", "puppet://$servername/secrets/sudoers.FreeBSD" ],
    }
  }
  else {
    File["/etc/sudoers"] {
      source => [
        "puppet://$servername/secrets/sudoers.$fqdn",
        "puppet://$servername/secrets/sudoers"
      ],
    }
  }
}
```

# Puppet - class

```
class koumbit::service::mysql {  
  package { [ "mysql-server", "logtail" ]:  
    ensure => "installed",  
  }  
}
```

```
backupninja::config { conf:  
  reportsuccess => false,  
  reportwarning => false,  
  when => 'everyday at 23:40'  
}
```

```
backupninja::mysql { "main":  
  sqldump => true,  
  compress => true  
}  
}
```

# Nagios & Munin

Questions?

<http://ourpowerbase.net>

<http://www.koumbit.org>