Pure Drupal Provisioning and Instance management
History - Hostmaster

- Complex components: python, PostgreSQL stored procedures, mysql, shell scripts
- Limited in its actions; difficult to extend
- Can only manage sites on the same host
- Poor support for iterative development / continuous integration
- No support for updates
- No support for status monitoring / op stats
- Doesn’t scale well
Ægir design

- Designed and implemented by Adrian Rossouw
- Enacts provisioning and management functions via drush (Arto’s Drupal shell)
- Consists of two Drupal modules, and an installation profile
- Web front end for install and configuration
- Command line interface to provisioning functions.
- In active development at CVS.Drupal.org
- Works today
Goals

- User-friendly
- Useful
- Secure
- Distributed
- Transparent
- Flexible
User-friendly

- Fewer “moving parts”
- Ease of installation
- Contextual documentation
- Auto-detection
- Import existing sites
Useful

• Create new sites
• Manage existing sites
• Provision services
• Re-deployable backups
• Scheduled upgrades
• Manage queues
• Gather statistics

• Package management
• Site cloning
• Install profiles
• and more ...
Secure

- Least permissions necessary
- Strict file permissions
- No Ægir code in sites
- Enforce secure settings
Distributed

- Front end and back end separation
- Uses Drush and unix processes
- Keeps track of server information
- Communicates over ssh to servers
Installing Ægir

Demonstration

http://groups.drupal.org/aegir/install-slideshow
Using Ægir

Demonstration

http://groups.drupal.org/aegir/user-slideshow
Ægir components

Front-end
- hosting
- hosting_platform
- hosting_web_server
- hosting_db_server
- hosting_task
- hosting_site
- hosting_package
- hostmaster.profile

Back-end
- provision
- provision_drupal
- provision_apache
- provision_mysql
Hostmaster Entity Relationships

- Package
- Package Release
- Platform
- Web Server
- Package Instance
- Task
- DB Server
- Client

Legend
- Site Management
- Package Management
- Configuration Management
Ægir 0.1

- Production ready
- Support single instance of Drupal
- Install, disable, enable, back up, roll back and delete sites
- Nearing beta status, but we need more people to test.
Ægir 0.2

• Production ready
• Multiple instances of Drupal
• Package comparisons
• Minor version upgrades (5.10 to 5.11)
• Back-end port to Drupal 6
  • Allows major version upgrades
Ægir 0.3

- Production ready
- Support multiple platforms on multiple servers
- Secure ssh key generation and ssh pipe communication
- Move sites between web and database servers
- Track server/site statistics
- More intelligent queueing
Ægir 0.4

- Production ready
- Front-end ported to Drupal 6
- Usability improvements
- Trigger/Rules support
Integration

- All the capabilities of Drupal for integration.
- E-commerce / Ubercart for billing
- All types extendable via CCK
- Views support for custom reporting
- New services can be integrated easily
- Completely white boxed, integrates cleanly with existing themes
More information

Join us on http://groups.drupal.org/aegir