An example of internal deployment workflow for small websites

Bojan Milanković   bojan@studiopresent.com

Goran Nikolovski   goran@studiopresent.com

e STUDIO**PRESENT**

Software vs Drupal deployment

What is deployment in general?

Software deployment is all of the activities that make a software system available for use.

- Easy for software with code only or with code and small database changes

Drupal deployment:

- Code deployment
- Database deployment (content & settings)
- Files deployment
- etc.

Drupal deployment

Drupal 7:

- Best solution is using features module (some have modules export / import option)
- Module deployment standard

Drupal 8:

- Configuration export / import for simple websites
- Features module
- Module deployment standard

Feature module (D7) = Configuration export / import (D8) for simple websites

Drupal 8 deployment

Workflow (3 cases):

- From dev to live for the first time (init)
- From live to dev (deploy-dev)
- From dev to live (deploy-live)

In brackets are our commands, we will talk about later

Internal deployment workflow for small websites

Why?

- We already have infrastructure (servers, etc.)
  We are hosting our websites in 99% cases on our servers
- Standard solution
- Less possibilities for mistake (automatization)
- We needed cheap solution for our small clients
  Small companies do not have money for Amazon...
- Challenge why not !

Internal deployment workflow for small websites

Specifications:

- Dev & Live servers are clones
- GitLab
- Symfony Console Component
- PHP
- MySQL
- NGINX
- Varnish
- Https & Http

Internal deployment workflow for small websites

Testing & Dev website:

- Using settings.local.php
  All caches are disabled & devel options enabled
- Domain alias & settings.php hack
  Website have main domain & alias (with dev suffix).
  When visitor goes to dev version dev settings will be included.
- Varnish - ports manipulation

Application overview

- Not written from scratch
- Depends on existing applications:
  - Symfony console component
  - Git
  - Mysqldump
  - Rsync
  - Drush
- Opportunity to learn
- Drupal 8 configuration management system

Symfony Console Component

- Not reinventing the wheel
- Focus on what makes our application unique
- Written in PHP
- Maintainable
- Drupal 8 is based on the Symfony Framework

Commands:

- studio DEPLOY-INIT
- studio DEPLOY-LIVE
- studio DEPLOY-DEV

DEPLOY-INIT

- Only used once - development done
- Operations:
  - Copy Drupal files
  - Copy sites/default/files
  - Copy database
  - Additional operations
- Git commit
- Backup database

DEPLOY-LIVE

- No development on the production

Two cases:

- studio DEPLOY-LIVE --config-only
- studio DEPLOY-LIVE

DEPLOY-DEV

- **Rules:**
  - Dev server: code and config
  - Production: content
- Pulls down database
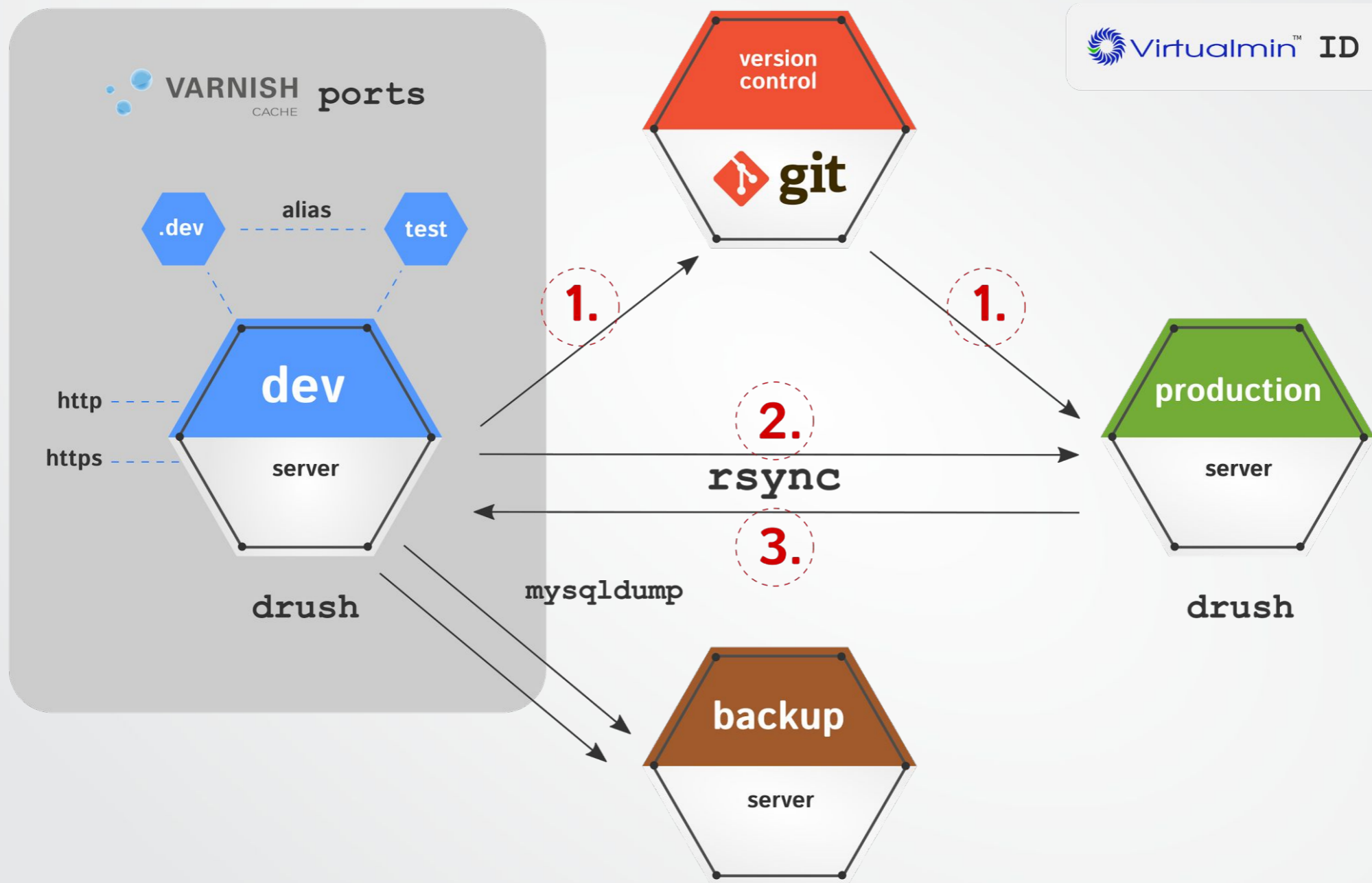- Pulls down files connected with content
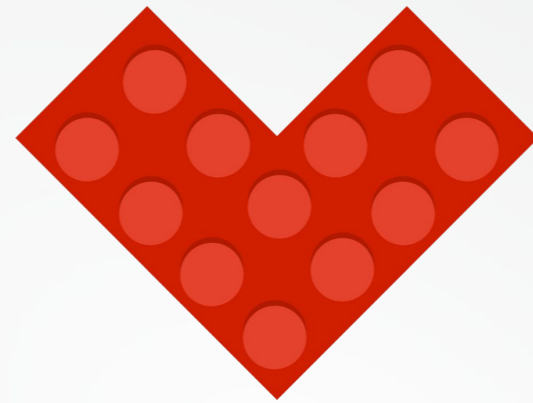
Internal deployment workflow for small websites

- GitLab and Vitrualmin
- Backup
    - Git for files
    - Database
- Good results in practice
- Tightly coupled to our infrastructure
- Needs rewrite

Internal deployment workflow for small websites

Thank you

Ask us questions now
and let anyone hear it

Or, if you are shy, stop us after presentation

Bojan Milanković   bojan@studiopresent.com

Goran Nikolovski   goran@studiopresent.com