

# 以Drupal打造高流量傳媒網站



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# 大綱



- 需求分析與資料結構
- 系統架構與效能
- 上線後的危機處理

# 需求分析與資料結構

# 需求分析耗時兩個月

- 用html, ppt?
- 用各種Wireframe工具?
- 用畫的最快!
- 使用者習慣很重要!

A hand-drawn wireframe of a news article form on a piece of paper. The form is divided into several sections with various input fields and checkboxes. The text is written in Chinese.

新聞來源  (with a dropdown arrow)

處理者  (with '酒 x x' written inside)

人氣屬性  善  專  重  叫  突

可外送  不可外送

但請注意  MSN  Yahoo  鉅亨網  . . . . .

標題

上傳大標  \*只有chief editor看的到這一欄.

輕標

人頭圖  (with a dropdown arrow)

副題

摘要

正文

圖文符

自由機位

相關附件  貼板選擇

審核區域

覆整  儲存

選字  
彈出

# 資料的關聯



- 新聞<->新聞(entity reference, tag)
- 新聞<->圖片(relation)
- 圖片<->圖片(tag)
- 新聞<->tag(relation：做版面的分類)

# 如何建立關連性



- **Module: relation.** 雙向連結、關連上可新增欄位。

Basic page  
Collection  
Feed item  
News  
NewsFeed  
RSS CNYES  
RSS FEED  
match  
team  
wall topic  
內容來源  
媒體

Basic page  
Collection  
Feed item  
News  
NewsFeed  
RSS CNYES  
RSS FEED  
match  
team  
wall topic  
內容來源  
媒體

標籤	機器可讀名稱	欄位類型
⊕ endpoints	endpoints	Relation endpoint
⊕ 圖說	field_rel_description	文字
⊕ 關鍵字	field_free_tags	分類項目引用
⊕ Ra值	field_rel_weight	正整數
⊕ 發佈狀態	field_release_status	布林值
⊕ 發佈時間	field_release_date	正整數

# 如何分辨重要性

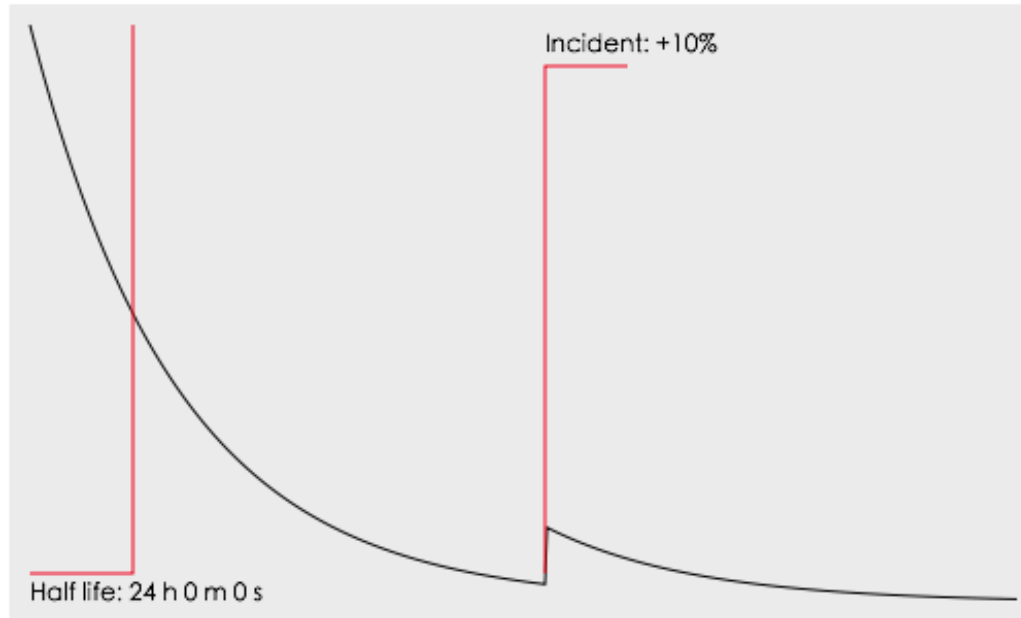


- **Module: Radioactivity**

## Half life \*

86400

Determines the decay rate of the radioactivity. For example, if the decay rate is 3600 (one hour), the half-life is two hours, and so on. The default is 6 hours.



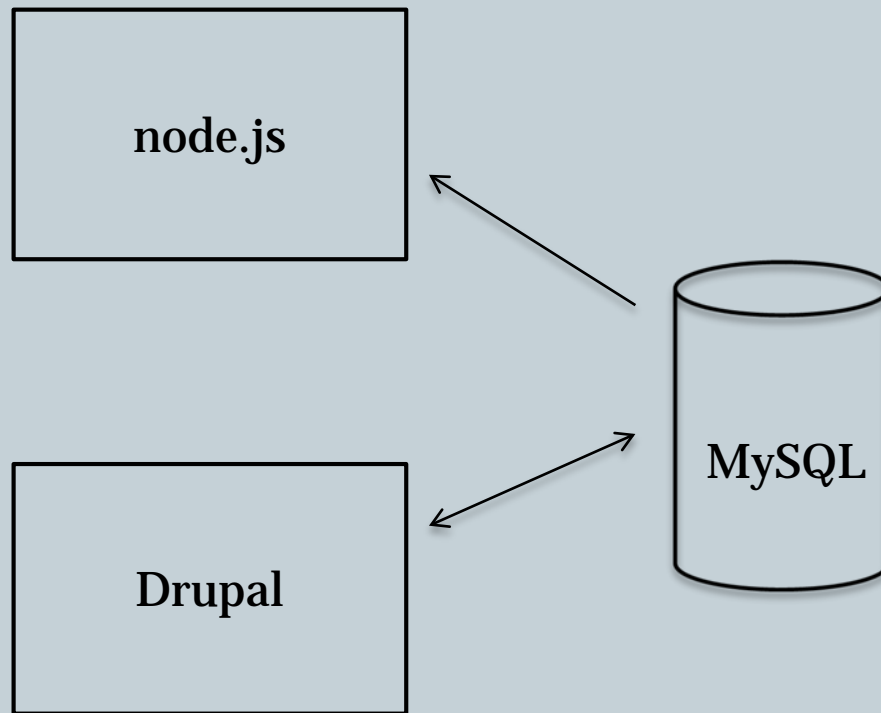
# 系統架構與效能



# 前後分工



- 時程縮短一半，效能增加一倍。



# MongoDB



- 再見rules
- 再見views
- EFQ (entity field query, EntityFieldQuery Views Backend)
- 模組...重寫
- 白宮怎麼說：<https://www.drupal.org/project/petitions>

## Move from MongoDB to MySQL

The current release depends on MongoDB. When we first created the application, we wanted to make sure we had a highly scalable application and database to meet our anticipated performance needs under high loads. We have been running MongoDB in production for over a year, but we have decided that the performance benefits it provides are outweighed by the complexity of trying to extend Drupal features backed by MongoDB.

# EFQ (entity field query)

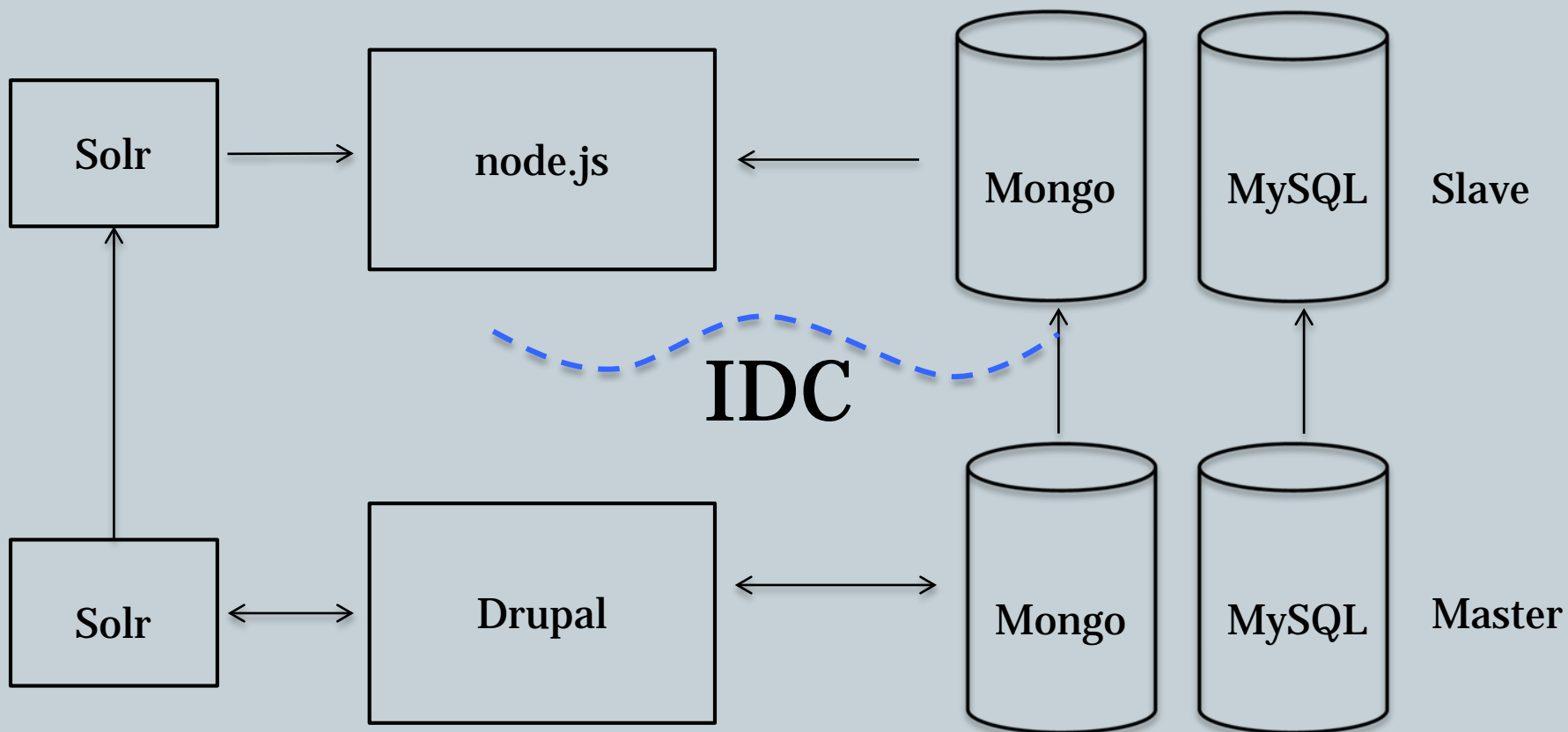


```
$query = new EntityFieldQuery();  
$query->entityCondition('entity_type', 'node');  
$query->entityCondition('bundle', 'news');  
$query->propertyCondition('title', '');  
$query->propertyCondition('uid', 123);  
$result = $query->execute();  
  
$nids = array_keys($result['node']);
```

# 上雲端下機房



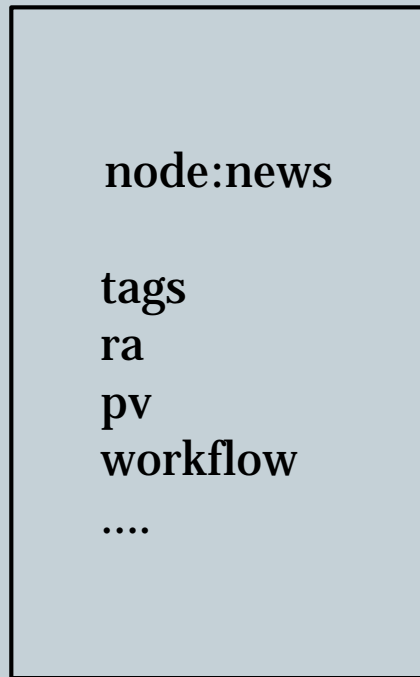
**AWS**



# Migrate



- Migrate module? Rest api?...還是自己寫api



新聞來源(entity reference)

處理者(entity reference)

延伸閱讀(entity reference)

....

新聞圖(relation: news<->image)

文中插圖(relation: news<->image)

所屬版面(relation: news<->tag)

....

上線後…

# 神奇的每天下午茶20分鐘



```
// Optimize the index (by default once a day).
```

```
$optimize_interval = variable_get('apachesolr_optimize_interval', 60 * 60 * 24);
```

```
$time = REQUEST_TIME;
```

```
if ($optimize_interval && ($time - $last > $optimize_interval)) {
```

```
    $solr->optimize(FALSE, FALSE);
```

```
    apachesolr_environment_variable_set($env_id, 'apachesolr_last_optimize', $time);
```

```
    apachesolr_set_last_index_updated($env_id, $time);
```

```
}
```

# Revision是救世主



```
$current = node_load($nid,null,true);  
$vid = $current->vid;  
$rev = node_load($nid, $vid,true);  
  
node_save($rev);
```



# 我們學到



- 使用者習慣才是老大(面對面溝通，別靠會議)
- 分段開發，分段驗證
- 資料結構的複雜度，與效能必須取得平衡
- 任何的難題碰到**堅持到底**的工程師都會瓦解