

Taking charge of the unknowns

The Project Management of a Drupalgeddon compromise

By: Brad MacDonald



July 24th, 2015





Brad MacDonald

Sr Project Manager

@bjmac





Today's Outline

- What this is about
- The "Uh-oh" moment
- The client, the strategy and plan of attack
- Mitigation
- Exceptions
- Questions







What is Drupalgeddon?

Why should I care?

A vulnerability in this API allows an attacker to send specially crafted requests resulting in arbitrary SQL execution...





Bad news ...



Michelle Cox 10:57 🋊

The number of things going wrong while trying to do a db import is just reenforcing the feeling that this is Monday morning.





Michelle Cox 11:09

@kelly.beck: I'm stuck on this error. Can't do anything with the site.

Error: require_once(): Failed opening required '/home/vagrant/docroot/sites/default/files.old/fullscreen/wrcc_fso.jpg'

I tried going to



/sites/default/files.old/fullscreen/wrcc_fso.jpg to see

if I could get it but it doesn't seem to exist there.

The line it is erroring on is "require_once DRUPAL_ROOT.'/'. \$lookup_cache[\$cache_key];" That makes no sense... Why would an image be loading there?



Kelly Beck 11:15 wierd







Visitor on IP 27.16.99.2 checked the CHANGELOG.txt file and attempted to login several times; the first attempt was at 9:10pm on November 2nd.
 At 3:57:25am on November 3rd the visitor successfully logged in as user
 1609; this is known because the visitor first loaded "user/login", submitted
 the login form via a POST call to the same page, and then loaded the
 "user/1609" page - this is Drupal's standard login procedure.

Uh-oh!

iting oly

Communicating to the client the right way

/admin/config/content/formats) to see what text formats were configured.

Immediately afterwards, the visitor loaded the "Add text format" page (GET /admin/config/content/formats/add) to create a new text format, then

submitted the form (POST /admin/config/content/formats/add), creating the
 new "php code" text filter.

9 - The visitor then went to the main "admin" page, and then to

"admin/content" to see what content was on the site.

The visitor then went to "node/add" and loaded up "node/add/page".

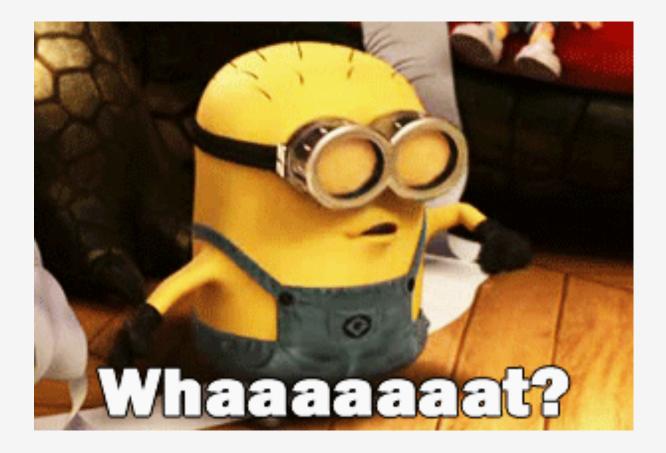
The visitor then went to hode/add and toaded up hode/add/page.
 The visitor submitted the "Create new page" page (POST /node/add/page) at

8:50pm, 8:51pm, 8:52pm and 8:54pm; at neither time did the visitor save the new node, indicating that they were pressing the "Preview" buttering the same of the s

to execute PHP code, without saving any data.











PLANNING and STRATEGY BEAT uncertainty!





Security Team Assemble!









YOU CANNOT COMMUNICATE OR DOCUMENT ENOUGH!

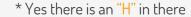




All about the "W"s* a.k.a. the Strategy

- When it occurred?
- Where it came from?
- What was done?
- **How** it was accomplished?
- **W**hy it was done? (if possible)









UrupalDetaultEntityController; +			
name	l type filename	module weight	
DrupalDefaultEntityController class sites/default/files.old/fullscreen/wrcc_fso.jpg 0			
row in set (0.00 sec)			
mysql> update registry set filename = 'includes/entity.inc' where name = 'DrupalDefaultEntityController'; Query OK, 1 row affected (0.00 sec) Rows matched: 1 Changed: 1 Warnings: 0			
mysql> select * from registry where name = 'DrupalDefaultEntityController';			
name	type filename		
DrupalDefaultEntityController class includes/entity.inc 0			







Where and when?







How and Why

- We suspected all along it was Drupalgeddon, confirming was not as easy
- \$\$\$\$ is why







Mitigation

- Cleaned up the site and derivative data
- Removed the uploaded malware files
- Removing the malicious database registry entry
- Removed all accounts that are not verified
- Engage clients/stakeolders





Exceptions







Thank You!

Questions?
@bjmac







slideshare.net/mediacurrent

