

## Preseljenje WordPressa na Squeeze



Povod članku je tema koja je trenutno aktualna, a to je nadogradnja Carnet Debiana sa distribucije Lenny na Squeeze. Na serveru ustanove "vrtim" jedan konferencijski site na WordPressu, pa me zanimalo kako će se dogradnja odraziti na rad Apache web servera, baze MYSQL i programskog alata PHP.

Poslušao sam savjet kolege koji mi je predložio da podignem testni server na kojem ću ispitati uspješnost prebacivanja mysql baze na višu verziju, ne dirajući produkcijski server.

Za potrebe testiranja instalirao sam "čist" Debian Carnet Squeeze testni server uz pomoć uputa u [članku](#) [1] Želje Boroša.

Prekopirao sam cijeli public\_html sa WordPress instalacijom na novi server u kreirani korisnički direktorij /home/korisnik/public\_html pazeći na dozvole za pristup datotekama.

Zatim sam napravio backup mysql baza:

```
# mysqldump --all-databases >/var/backups/mysqldump.sql.carnet-upgrade
```

Zanimale su me razlike između verzija paketa Debian Lenny i Debian Squeeze. Usporedbom trenutnog servera i testnog dolazimo do slijedećeg stanja:

```
dpkg -l | grep mysql
ii libdbd-mysql-perl          4.007-1+lenny1          A Perl5 database interface
to the MySQL data
ii libmysqlclient15off       5.0.51a-24+lenny5       MySQL database client libra
ry
ii mysql-client-5.0          5.0.51a-24+lenny5       MySQL database client binaries
ii mysql-cn                  2:5.0.51-2lenny1        MySQL database server
ii mysql-common              5.0.51a-24+lenny5       MySQL database common files
ii mysql-server-5.0          5.0.51a-24+lenny5       MySQL database server binaries
ii php5-mysql                5.2.6.dfsg.1-1+lenny16  MySQL module for php5
```

```
dpkg -l | grep mysql
ii libdbd-mysql-perl          4.016-1                  Perl5 database interface to
the MySQL database
ii libmysqlclient16           5.1.61-0+squeezel1       MySQL database client librar
y
ii mysql-client-5.1          5.1.61-0+squeezel1       MySQL database client binaries
ii mysql-cn                  2:5.1.49-1                MySQL database server
ii mysql-common              5.1.61-0+squeezel1       MySQL database common files,
e.g. /etc/mysql/my.cnf
ii mysql-server-5.1          5.1.61-0+squeezel1       MySQL database server binari
es and system database setup
ii mysql-server-
```

```
core-5.1      5.1.61-0+squeezel      MySQL database server binaries
ii  php5-mysql  5.3.3-7+squeeze8      MySQL module for php5
```

Znači imamo različite verzije mysql servera i mysql modula za php5. Prema sugestijama preseljenje baze iz niže u višu verziju trebalo bi funkcionirati. Prenesemo mysqldump.sql.carnet-upgrade na testni server i pokrenemo naredbu.

```
# mysql -u root -p < mysqldump.sql.carnet-upgrade
```

Restore baze prolazi bez vidljivih problema međutim pri pokušaju pokretanja mysqld servisa javljaju se višestruke greške. Evo izvoda iz logova.

```
/etc/mysql/debian-start[8043]: /usr/bin/mysqlcheck: Got error: 1045: Access denied for user 'debian-sys-maint'@'localhost' (using password: YES) when trying to connect
```

Ova se greška javlja kad preselimo MYSQL instalaciju sa jednog Debian servera na drugi i promijene se korisnički podaci. Debian kreira korisnika "debian-sys-maint" sa slučajnom lozinkom. Taj podatak možemo potražiti u /etc/mysql/debian.cnf

```
# cat /etc/mysql/debian.cnf | grep password
password = fU6o26UB114UCVg0
```

Zamijenimo lozinku u bazi s novom koju smo izlistali u prethodnoj naredbi:

```
# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 97
Server version: 5.1.61-0+squeezel (Debian)
```

```
mysql> GRANT ALL PRIVILEGES ON *.* TO 'debian-sys-maint'@'localhost' IDENTIFIED BY 'fU6o26UB114UCVg0' WITH GRANT OPTION;
```

Nakon resetiranja lozinke mysql bi se trebao pokrenuti. No u logovima ima još grešaka koje se javljaju kod pokretanja:

```
Mar 21 10:48:52 stroj mysqld: 120321 10:48:52 [Note] /usr/sbin/mysqld: Shutdown complete
Mar 21 10:48:52 stroj mysqld:
Mar 21 10:48:52 stroj mysqld_safe: mysqld from pid file /var/run/mysqld/mysqld.pid ended
Mar 21 10:48:57 stroj mysqld_safe: Starting mysqld daemon with databases from /var/lib/mysql
Mar 21 10:48:57 stroj mysqld: 120321 10:48:57 [Note] Plugin 'FEDERATED' is disabled.
Mar 21 10:48:57 stroj mysqld: 120321 10:48:57 InnoDB: Initializing buffer pool, size = 8.0M
Mar 21 10:48:57 stroj mysqld: 120321 10:48:57 InnoDB: Completed initialization of buffer pool
Mar 21 10:48:57 stroj mysqld: 120321 10:48:57 InnoDB: Started; log sequence number 0 44233
Mar 21 10:48:57 stroj mysqld: 120321 10:48:57 [ERROR] Column count of mysql.db is wrong. Expected 22, found 20. The table is probably corrupted
Mar 21 10:48:57 stroj mysqld: 120321 10:48:57 [ERROR] mysql.user has no `Event_priv` column at position 29
```

```
Mar 21 10:48:57 stroj mysqld: 120321 10:48:57 [ERROR] Event Scheduler: An error occurred when initializing system tables. Disabling the Event Scheduler.
Mar 21 10:48:57 stroj mysqld: 120321 10:48:57 [Note] /usr/sbin/mysqld: ready for connections.
Mar 21 10:48:57 stroj mysqld: Version: '5.1.61-0+squeezel' socket: '/var/run/mysqld/mysqld.sock' port: 3306 (Debian)
Mar 21 10:48:58 stroj /etc/mysql/debian-start[3434]: Upgrading MySQL tables if necessary.
Mar 21 10:48:58 stroj /etc/mysql/debian-start[3437]: /usr/bin/mysql_upgrade: the '--basedir' option is always ignored
Mar 21 10:48:58 stroj /etc/mysql/debian-start[3437]: Looking for 'mysql' as: /usr/bin/mysql
Mar 21 10:48:58 stroj /etc/mysql/debian-start[3437]: Looking for 'mysqlcheck' as: /usr/bin/mysqlcheck
Mar 21 10:48:58 stroj /etc/mysql/debian-start[3437]: This installation of MySQL is already upgraded to 5.1.61, use --force if you still need to run mysql_upgrade
Mar 21 10:48:58 stroj /etc/mysql/debian-start[3444]: Checking for insecure root accounts.
Mar 21 10:48:58 stroj /etc/mysql/debian-start[3448]: Triggering myisam-recover for all MyISAM tables
Mar 21 10:48:58 stroj mysqld: 120321 10:48:58 [ERROR] Column count of mysql.proc is wrong. Expected 20, found 16. The table is probably corrupted
```

Pogledajmo što se događa nakon što pokrenemo mysql.

```
# /etc/init.d/mysql start
Starting MySQL database server: mysqld.
Checking for corrupt, not cleanly closed and upgrade needing tables..

ERROR 1577 (HY000) at line 1: Cannot proceed because system tables used by Event Scheduler were found damaged at server start
ERROR 1547 (HY000) at line 1: Column count of mysql.proc is wrong. Expected 20, found 16. The table is probably corrupted
```

Tražeci informacije o ovom problemu nailazim na izveštaje o bugovima "Upgrading from 5.0 to 5.1, mysql crashes during mysql\_upgrade". Preporučaju se standardne provjere koje mogu izvršiti na slijedeći način.

```
# mysql_upgrade -u root -p
Enter password:
Looking for 'mysql' as: mysql
Looking for 'mysqlcheck' as: mysqlcheck
This installation of MySQL is already upgraded to 5.1.61, use --force if you still need to run mysql_upgrade

root@stroj:~# mysql_upgrade --force -u root -p
Enter password:
Looking for 'mysql' as: mysql
Looking for 'mysqlcheck' as: mysqlcheck
Running 'mysqlcheck' with connection arguments: '--port=3306' '--socket=/var/run/mysqld/mysqld.sock'
Running 'mysqlcheck' with connection arguments: '--port=3306' '--socket=/var/run/mysqld/mysqld.sock'
foundry.wp_foundrycommentmeta          OK
foundry.wp_foundrycomments              OK
foundry.wp_foundryflag_album            OK
foundry.wp_foundryflag_comments         OK
```

```
foundry.wp_foundryflag_gallery      OK
foundry.wp_foundryflag_pictures     OK
foundry.wp_foundrylinks              OK
foundry.wp_foundryngg_album         OK
foundry.wp_foundryngg_gallery       OK
foundry.wp_foundryngg_pictures      OK
foundry.wp_foundryoptions           OK
foundry.wp_foundrypostmeta          OK
foundry.wp_foundryposts              OK
foundry.wp_foundryterm_relationships OK
foundry.wp_foundryterm_taxonomy     OK
foundry.wp_foundryterms              OK
foundry.wp_foundryusermeta          OK
foundry.wp_foundryusers             OK
mysql.columns_priv                  OK
mysql.db                             OK
mysql.event                          OK
mysql.func                           OK
mysql.general_log                   OK
Error      : You can't use locks with log tables.
status     : OK
mysql.help_category                  OK
mysql.help_keyword                   OK
mysql.help_relation                  OK
mysql.help_topic                     OK
mysql.host                           OK
mysql.ndb_binlog_index              OK
mysql.plugin                         OK
mysql.proc                           OK
mysql.procs_priv                     OK
mysql.servers                        OK
mysql.slow_log                       OK
Error      : You can't use locks with log tables.
status     : OK
mysql.tables_priv                    OK
mysql.time_zone                      OK
mysql.time_zone_leap_second          OK
mysql.time_zone_name                 OK
mysql.time_zone_transition           OK
mysql.time_zone_transition_type      OK
mysql.user                           OK
phpmyadmin.pma_bookmark              OK
phpmyadmin.pma_column_info           OK
phpmyadmin.pma_designer_coords       OK
phpmyadmin.pma_history                OK
phpmyadmin.pma_pdf_pages              OK
phpmyadmin.pma_relation               OK
phpmyadmin.pma_table_coords          OK
phpmyadmin.pma_table_info            OK
phpmyadmin.pma_tracking               OK
Running 'mysql_fix_privilege_tables'...
OK
```

Nakon toga napravimo provjeru dogradnje:

```
# mysqlcheck -u root -p --check-upgrade --all-databases --auto-repair
Enter password:
foundry.wp_foundrycommentmeta        OK
```

```
foundry.wp_foundrycomments          OK
foundry.wp_foundryflag_album         OK
foundry.wp_foundryflag_comments      OK
foundry.wp_foundryflag_gallery       OK
foundry.wp_foundryflag_pictures     OK
foundry.wp_foundrylinks              OK
foundry.wp_foundryngg_album          OK
foundry.wp_foundryngg_gallery        OK
foundry.wp_foundryngg_pictures      OK
foundry.wp_foundryoptions            OK
foundry.wp_foundrypostmeta           OK
foundry.wp_foundryposts              OK
foundry.wp_foundryterm_relationships OK
foundry.wp_foundryterm_taxonomy      OK
foundry.wp_foundryterms              OK
foundry.wp_foundryusermeta           OK
foundry.wp_foundryusers              OK
mysql.columns_priv                   OK
mysql.db                              OK
mysql.event                          OK
mysql.func                            OK
mysql.general_log                    OK
Error      : You can't use locks with log tables.
status     : OK
mysql.help_category                   OK
mysql.help_keyword                   OK
mysql.help_relation                   OK
mysql.help_topic                      OK
mysql.host                            OK
mysql.plugin                          OK
mysql.proc                            OK
mysql.procs_priv                      OK
mysql.servers                         OK
mysql.slow_log                        OK
Error      : You can't use locks with log tables.
status     : OK
mysql.tables_priv                     OK
mysql.time_zone                       OK
mysql.time_zone_leap_second           OK
mysql.time_zone_name                  OK
mysql.time_zone_transition            OK
mysql.time_zone_transition_type       OK
mysql.user                            OK
phpmyadmin.pma_bookmark               OK
phpmyadmin.pma_column_info            OK
phpmyadmin.pma_designer_coords        OK
phpmyadmin.pma_history                 OK
phpmyadmin.pma_relation                OK
phpmyadmin.pma_table_coords           OK
phpmyadmin.pma_table_info             OK
phpmyadmin.pma_tracking                OK

# mysqlcheck -u root -p --all-databases --check-upgrade --fix-db-names --fix-table-
names
Enter password:
root@stroj:/var/log#
```

Nakon provjera poruke o oštećenim tablicama trebale bi se izgubiti. Prema uputama za WordPress treba promijeniti i URL stranice koju smo preselili na drugu adresu. Za to je jako koristan paket

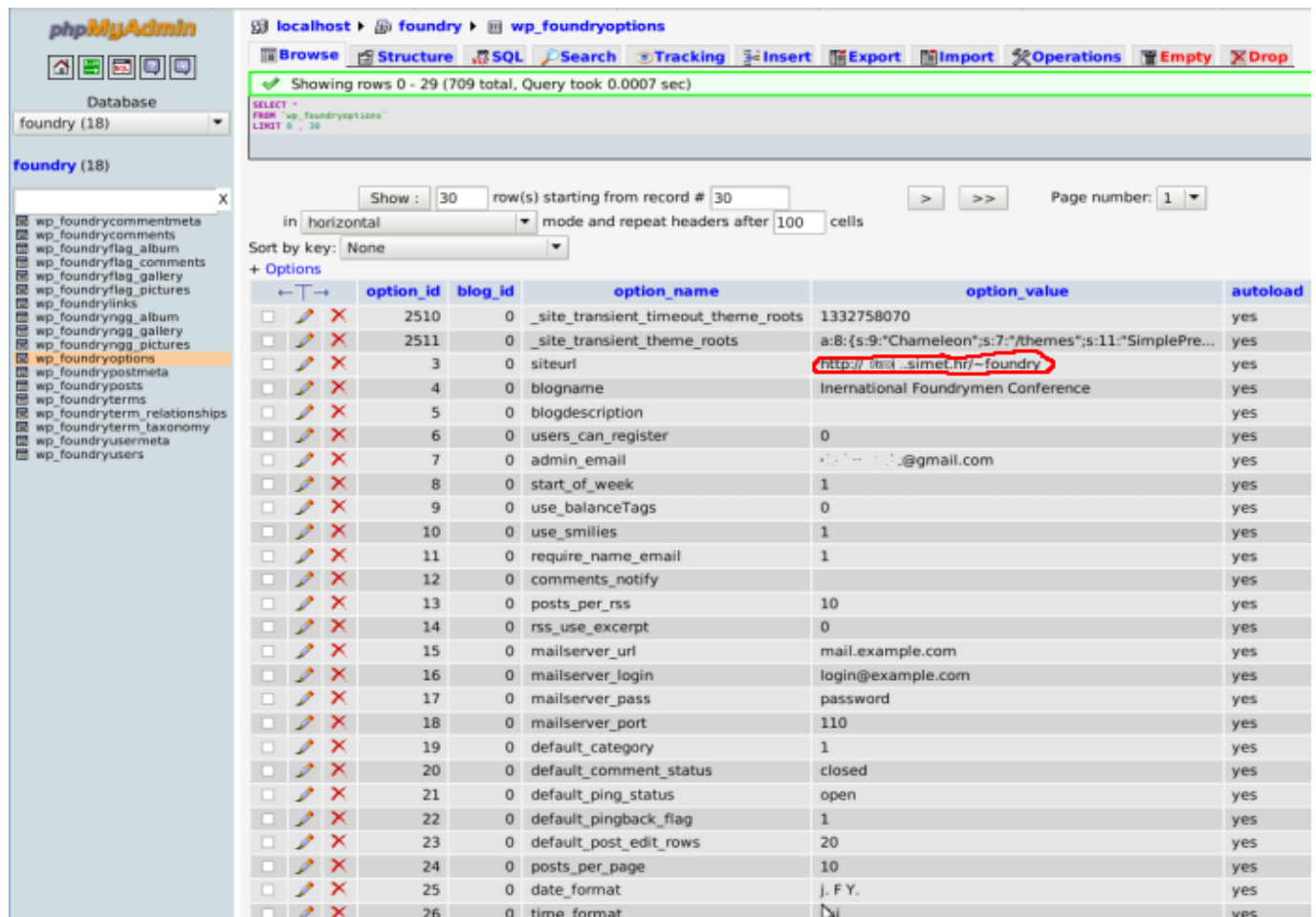
phpmysql.

```
# apt-get install phpmyadmin
```

Da bi mogli pristupiti bazi kroz phpmyadmin treba dati prava phpmyadmin korisniku nad bazom.

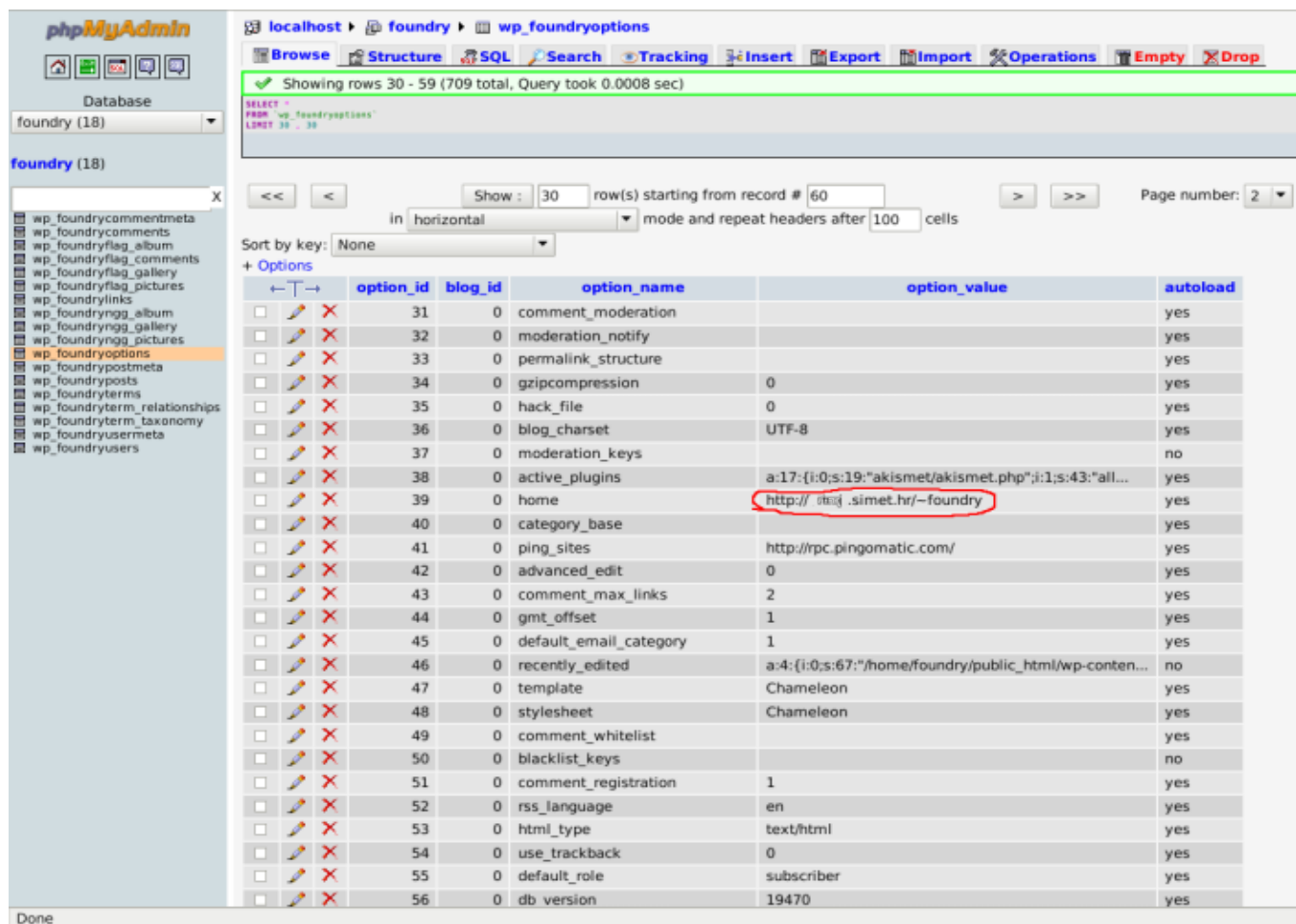
```
# mysql -u root -p
mysql> GRANT SELECT, INSERT, UPDATE, DELETE, CREATE, DROP, INDEX, ALTER, CREATE TEMPORARY TABLES, LOCK TABLES ON foundry.* TO 'phpmyadmin'@'localhost' IDENTIFIED BY 'lozinka';
```

Promijenimo pod wp\_imebazeoptions URL kao na slikama.



The screenshot shows the phpMyAdmin interface for the 'foundry' database. The 'wp\_foundryoptions' table is selected, and the 'siteurl' option is highlighted. The value of 'siteurl' is 'http://www.simet.hr/~foundry', which is circled in red. The table contains various WordPress options with their IDs, blog IDs, names, values, and autoload settings.

option_id	blog_id	option_name	option_value	autoload
2510	0	_site_transient_timeout_theme_roots	1332758070	yes
2511	0	_site_transient_theme_roots	a:8:{s:9:"Chameleon";s:7:"/themes";s:11:"SimplePre...	yes
3	0	siteurl	http://www.simet.hr/~foundry	yes
4	0	blogname	International Foundrymen Conference	yes
5	0	blogdescription		yes
6	0	users_can_register	0	yes
7	0	admin_email	...@gmail.com	yes
8	0	start_of_week	1	yes
9	0	use_balanceTags	0	yes
10	0	use_smilies	1	yes
11	0	require_name_email	1	yes
12	0	comments_notify		yes
13	0	posts_per_rss	10	yes
14	0	rss_use_excerpt	0	yes
15	0	mailserver_url	mail.example.com	yes
16	0	mailserver_login	login@example.com	yes
17	0	mailserver_pass	password	yes
18	0	mailserver_port	110	yes
19	0	default_category	1	yes
20	0	default_comment_status	closed	yes
21	0	default_ping_status	open	yes
22	0	default_pingback_flag	1	yes
23	0	default_post_edit_rows	20	yes
24	0	posts_per_page	10	yes
25	0	date_format	j. F Y.	yes
26	0	time format		yes



option_id	blog_id	option_name	option_value	autoload
31	0	comment_moderation		yes
32	0	moderation_notify		yes
33	0	permalink_structure		yes
34	0	gzipcompression	0	yes
35	0	hack_file	0	yes
36	0	blog_charset	UTF-8	yes
37	0	moderation_keys		no
38	0	active_plugins	a:17:{i:0;s:19:"akismet/akismet.php";i:1;s:43:"all...	yes
39	0	home	http://www.simet.hr/~foundry	yes
40	0	category_base		yes
41	0	ping_sites	http://rpc.pingomatic.com/	yes
42	0	advanced_edit	0	yes
43	0	comment_max_links	2	yes
44	0	gmt_offset	1	yes
45	0	default_email_category	1	yes
46	0	recently_edited	a:4:{i:0;s:67:"home/foundry/public_html/wp-conten...	no
47	0	template	Chameleon	yes
48	0	stylesheet	Chameleon	yes
49	0	comment_whitelist		yes
50	0	blacklist_keys		no
51	0	comment_registration	1	yes
52	0	rss_language	en	yes
53	0	html_type	text/html	yes
54	0	use_trackback	0	yes
55	0	default_role	subscriber	yes
56	0	db version	19470	yes

Ukoliko nakon ovih promjena imate problem sa otvaranjem stranice provjerite dozvole nad php datotekama što je opisano u drugom [članku](#). [2]

Primjetio sam u /var/log/apache2/error.log nakon što stranica proradi slijedeću grešku.

```
[Fri Mar 23 09:42:37 2012] [error] PHP Fatal error: Allowed memory size of 16777216 bytes exhausted (tried to allocate 4864 bytes) in /home/foundry/public_html/wp-content/plugins/wp-pagenavi/wp-pagenavi.php on line 31
```

Za taj problem je potrebno prepraviti jedan redak u /etc/php5/apache2/php.ini, jer je nova instalacija donijela maksimalni memory\_limit= 16M

Radi se količini memorije koja je data skriptama na korištenje. Limit je postavljen da loše napisane skripte ne bi "pojele" svu raspoloživu memoriju na serveru.

Provjeravamo tu vrijednost na svom produkcijskom serveru.

```
# less php.ini | grep memory_limit
memory_limit = 64M
```

Ovu vrijednost prenesemo na testni server.

Nakon toga poruke o greškama se više ne javljaju. Nadamo se da će ove upute nekome pomoći.

uto, 2012-03-27 11:22 - Goran Šljivić **Kuharice**: [Linux](#) [3]

**Kategorije**: [Servisi](#) [4]

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**Links**

- [1] <https://sysportal.carnet.hr./node/942>
- [2] <https://sysportal.carnet.hr./node/970>
- [3] <https://sysportal.carnet.hr./taxonomy/term/17>
- [4] <https://sysportal.carnet.hr./taxonomy/term/28>