

Forum:[Hack Forums](#)

Thread: [MariaDB](#)

Omniscient - October 26, 2015, 1:55 pm

We are now on MariaDB. I made the decision to go with MariaDB after reviewing the performance of MySQL 5.6 since moving to the new servers. It was reasonable but CPU imho was a bit high. I knew I could always move to MariaDB and I decided two days ago to perform the move today and see how it goes.

I also did a lot of research and reading about MariaDB. Not a lot of the features we'll use and MyBB doesn't have any extra compatibility. But the fact that MariaDB is a drop-in replacement might end with MariaDB 11. I read that from the actual MariaDB dev team. So with that in mind I decided to make the adjustment now instead of waiting till I was required to make a more complicated upgrade.

So far the CPU went from a near 100% of a single CPU cycle to only 5% or less. That's incredibly significant in terms of performance. Overall server load has gone from 60-70% CPU idle to 85-90% CPU idle. This gives us a lot more room when it comes to CPU cycles and what freedom I have to add features to HF. There does seem to be extra RAM used but fortunately we have plenty of that on the DB server.

The next maintenance upgrade will be to Nginx for some additional DDOS protection features I plan to implement.

Thanks to all members for being patient while I performed the upgrade. Much appreciated. Enjoy.

Cyber - October 26, 2015, 1:56 pm

Awesome keep up the great work!

TNF. - October 26, 2015, 1:57 pm

Nice that it got implemented.

???? - October 26, 2015, 1:58 pm

Good work Omni, a positive change for sure

Dan. - October 26, 2015, 1:58 pm

Oh nice, I've never used it on anything of scale, but have heard good things about it. That's an incredible resource drop.

Hash G. - October 26, 2015, 1:59 pm

Awesome to hear, good job!

Omniscient - October 26, 2015, 2:01 pm

(Oct 26, 2015 01:58 PM)Dan. Wrote: [CITE](#) Oh nice, I've never used it on anything of scale, but have heard good things about it. That's an incredible resource drop.

It is. The funny thing is that on TOP command the MySQL (MariaDB) process goes idle constantly. In TOP I like to only view active processes and mysql keeps vanishing. Leads me to believe that MariaDB takes huge advantage of RAM and CACHE.

Tomb Raider - October 26, 2015, 2:02 pm

Awesome great work and a huge drop in CPU temp

Thornzzz - October 26, 2015, 2:02 pm

I'm curious, why has it been so hit and miss with lag the past two days? Has Hf been under attack or was that you making changes?

Cammy - October 26, 2015, 2:03 pm

Nice job. Any ETA on the revival of the old theme?

Gustav. - October 26, 2015, 2:13 pm

As always thank you for the constant updates Omni.

Omniscient - October 26, 2015, 2:14 pm

Quote:I'm curious, why has it been so hit and miss with lag the past two days? Has Hf been under attack or was that you making changes?

Attack. We've had 140 million page requests in the past 12 hours. No worries though. It's mitigated and after my next change these attacks will never bother us again. I look forward to whatever new attack someone will come up with.

Quote:Any ETA on the revival of the old theme?

No. Because I have to do the Nginx changes first. Then I have to upgrade us to MyBB 1.8. Then I have to fix everything that breaks after the upgrade. And then, after that, I can work on the theme. Likely immediately after the upgrade I'll do some minor theme changes from default MyBB like changing text and background colors. But I'll worry about deeper theme changes after I'm 100% sure site features and plugins are working properly.

The MyBB upgrade is without doubt going to be very time-consuming and complicated with the possibility of a buttload of problems. Example is simply running the upgrade script from MyBB might choke the server or the scripts could timeout. Table changes may run for hours and that's not an overestimation. So much can go very very wrong. I can't wait till it's all over and I can breathe a sigh of relief.

TheNaked - October 26, 2015, 2:15 pm

Good work Omni, the site has been running amazing since the upgrade. Keep it going and don't work too much, you deserve some breaks too.

Aurora - October 26, 2015, 2:17 pm

(Oct 26, 2015 02:14 PM)Omniscient Wrote: [\[CITE\]](#) Attack. We've had 140 million page requests in the past 12 hours. No worries though. It's mitigated and after my next change these attacks will never bother us again. I look forward to whatever new attack someone will come up with.

You know, I always find it amazing how you manage all of that. It really must be a pain in the ass to deal with. I don't seem to really think about how smooth HF is always running, but it's really all thanks to you. Thanks for always putting a lot of work for HF.

KFC Watermelon - October 26, 2015, 2:17 pm

Omniscient is on fire. System administration is a hard job, and pays damn well as a career. Great work.

Private Network - October 26, 2015, 2:18 pm

Nice updates and plans you've got going here, keep it up!

Karnaugh - October 26, 2015, 2:19 pm

I think it's much faster now... I don't catch any "Loading" messages!

Cammy - October 26, 2015, 2:20 pm

(Oct 26, 2015 02:14 PM)Omniscient Wrote: [\[CITE\]](#) No. Because I have to do the Nginx changes first. Then I have to upgrade us to MyBB 1.8. Then I have to fix everything that breaks after the upgrade. And then, after that, I can work on the theme. Likely immediately after the upgrade I'll do some minor theme changes from default MyBB like changing text and background colors. But I'll worry about deeper theme changes after I'm 100% sure site features and plugins are working properly. Alright that's cool, keep up the amazing work man you the Don

? PROFIT ? - October 26, 2015, 2:20 pm

Seems like the forums are gonna be faster :D

Zankza - October 26, 2015, 2:22 pm

Lol I suggested this almost three years ago, It's about time it's finally happened...

BigDap - October 26, 2015, 2:29 pm

(Oct 26, 2015 02:01 PM)Omniscient Wrote: [\[CITE\]](#) It is. The funny thing is that on TOP command the MySQL (MariaDB) process goes idle constantly. In TOP I like to only view active processes and mysql keeps vanishing. Leads me to believe that MariaDB takes huge advantage of RAM and CACHE.

It takes a large advantage of Cache.

Used it on hfresolver.com when it was online.

As far as RAM went I really never paid attention, tbh.

Vouch for Omni and his greatness.

Vintel - October 26, 2015, 2:30 pm

Nice to hear. You are doing a lot of great work!

KFC Watermelon - October 26, 2015, 2:34 pm

(Oct 26, 2015 02:01 PM)Omniscient Wrote: [\[CITE\]](#) It is. The funny thing is that on TOP command the MySQL (MariaDB) process goes idle constantly. In TOP I like to only view active processes and mysql keeps vanishing. Leads me to believe that MariaDB takes huge advantage of RAM and CACHE.

If I remember correctly, MySQL was sold off to Oracle, and the original developers of MySQL created MariaDB. It's obvious MariaDB is the better option.

haydrazs - October 26, 2015, 2:36 pm

Plus its got a sexy vibe to it

illuminati? - October 26, 2015, 3:07 pm

Thats a massive Drop in CPU usage.
Jesus.

Brendan - October 26, 2015, 3:07 pm

Great to hear about all this new stuff HF is getting.

He B TeMy - October 26, 2015, 3:10 pm

(Oct 26, 2015 02:34 PM)KFC Watermelon Wrote: [\[CITE\]](#) If I remember correctly, MySQL was sold off to Oracle, and the original developers of MySQL created MariaDB. It's obvious MariaDB is the better option.

Yup,

Although i've never heard of some "big" site using it, but again, i don't do web dev.
But, the performance omni reports here is astounding, keep it up !

Omniscient - October 26, 2015, 3:18 pm

Quote: So this means you will implement a lot of new, resource-extensive, features, right Omni? :D
It means I can consider adding them without complete fear of resource usage. I don't plan on wasting resources though unless it's for a feature I feel we really need.

Dan. - October 26, 2015, 4:26 pm

(Oct 26, 2015 02:01 PM)Omniscient Wrote: [\[CITE\]](#) It is. The funny thing is that on TOP command the MySQL (MariaDB) process goes idle constantly. In TOP I like to only view active processes and mysql keeps vanishing. Leads me to believe that MariaDB takes huge advantage of RAM and CACHE.

I'd give it all the ram it wants if it saves that much CPU. Plus RAM is going to get the data to the client much more efficiently if it doesn't have to process as much.

Z3r0D4y - October 26, 2015, 4:29 pm

Would really love to know the server specs!

He B TeMy - October 26, 2015, 4:49 pm

(Oct 26, 2015 04:29 PM)Z3r0D4y Wrote: [\[CITE\]](#) Would really love to know the server specs!
He said many times he wouldn't give that info.

ZuGgY - October 26, 2015, 4:51 pm

Sounds awesome. What is the estimated time until we're on 1.8?

DeadCode - October 26, 2015, 4:53 pm

I heard Percona MariaDB does a great job too!

RaheemBeam - October 26, 2015, 4:57 pm

Nice job bro i like it keep it up

Kinda Old - October 26, 2015, 5:04 pm

I bet you just love challenges Omni. Great to hear you have more resources to code more things, HF has been a little bland lately. Maybe write a script to watchdog reputation now?

CRT - October 26, 2015, 8:21 pm

That's a pretty impressive resource drop. Loving the changes you're doing...

Spoiler [\(Click to View\)](#) Still no Halloween banner ? ?

#Skyline - October 26, 2015, 9:33 pm

(Oct 26, 2015 08:21 PM)Curt. Wrote: [\[CITE\]](#) That's a pretty impressive resource drop. Loving the changes you're doing...

Spoiler [\(Click to View\)](#) Still no Halloween banner ? ?

The Halloween banner is now currently in action.

"And Omni you're doing a great job,
but you're not a webmaster, you're a webgod. "

Keep up the good job Omni ?

Projec7 - October 26, 2015, 9:48 pm

Sound good! Hope maria is nice lol

Lovely? - October 26, 2015, 9:48 pm

(Oct 26, 2015 09:48 PM)Projec7 Wrote: [\[CITE\]](#) Sound good! Hope maria is nice lol
Oh Maria was nice bro.

Serendity - October 26, 2015, 9:50 pm

Loving the halloween banner, and good job omni.

PrivateDonut - October 26, 2015, 9:51 pm

I heard from quite a few people that running nginx + MariaDB would do amazing with resources, I didn't think it would be such a difference. Of course my sites doesn't get a lot of traffic, and what not, so their running on small servers. But I'm glad to see hackforums doing much better, I haven't notice any downtime since the server change, besides the downtime for updates and what not.

mrnapolean1 - October 27, 2015, 7:52 am

(Oct 26, 2015 02:14 PM)Omniscient Wrote: [\[CITE\]](#) No. Because I have to do the Nginx changes first. Then I have to upgrade us to MyBB 1.8. Then I have to fix everything that breaks after the upgrade. And then, after that, I can work on the theme. Likely immediately after the upgrade I'll do some minor theme changes from default MyBB like changing text and background colors. But I'll worry about deeper theme changes after I'm 100% sure site features and plugins are working properly.

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Its like upgrading a critical server from Windows Server 2003 to Windows Server 2012 without having to take it offline.

There is no doubt that HF will go offline for some time while Omni performs the upgrade. You're dealing with new software and you must make sure there are no bugs or exploits in the new software. And furthermore older plugins and extensions you must make sure no new exploits or bugs open up.

The theme will be nice but I am patient until Omni gets all the upgrading done to MyBB 1.6.x Branch. It will be interesting what new features Omni can develop and new features MyBB 1.6.x branch will bring.

And to Omni, I commend you on the hard work. Keep it up.?
It will pay off in the end.

Queen Cin - October 27, 2015, 7:53 am

Awesome keep up the great work!

Mnikkilla - October 27, 2015, 10:25 am

Great work omni, can't wait for the old theme to come back :)

Dan. - October 27, 2015, 5:52 pm

(Oct 27, 2015 07:52 AM)mrrnapolean1 Wrote: [\[CITE\]](#) Its like upgrading a critical server from Windows Server 2003 to Windows Server 2012 without having to take it offline.

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And to Omni, I commend you on the hard work. Keep it up.?
It will pay off in the end. I'd be shocked if he hasn't already been testing on a dev site. It'd be crazy to upgrade a site of this size without testing first. Plus he has to transfer all his hard-coded modifications.

mrrnapolean1 - October 27, 2015, 6:26 pm

(Oct 27, 2015 05:52 PM)Dan. Wrote: [\[CITE\]](#) I'd be shocked if he hasn't already been testing on a dev site. It'd be crazy to upgrade a site of this size without testing first. Plus he has to transfer all his hard-coded modifications.

He has a whole lot of core mods he will have to transfer from the 1.6.x branch to the 1.8.x branch.

And yes It would be insane and a huge risk to upgrade the live site instead of using a test site. You never know what will break or what new bugs and exploits will open up.

ASLR - October 27, 2015, 6:47 pm

Nice! If I may, is HF hosted on a single server or a cluster with a load balancer? Just curious, I've always wondered this.

Omniscient - October 27, 2015, 7:34 pm

Quote: I'd be shocked if he hasn't already been testing on a dev site.

Be shocked. I had a backup if things went wrong but my research showed that it was likely going to be an easy upgrade and it was. I do run test servers though and make preparations most of the time in these situations.

Quote: Nice! If I may, is HF hosted on a single server or a cluster with a load balancer?
Multiple servers. No need for load balancing though.

Warren Buffett - October 27, 2015, 7:56 pm

Hey Omni, wondering why HF is not using NoSQL like MongoDB?

Omniscient - October 27, 2015, 8:04 pm

(Oct 27, 2015 07:56 PM)Warren Buffett Wrote: [\[CITE\]](#) Hey Omni, wondering why HF is not using NoSQL like MongoDB?

Easy reason. MyBB doesn't support it. Not sure I would go that route anyways.

A forum isn't a good place for using NoSQL anyways.

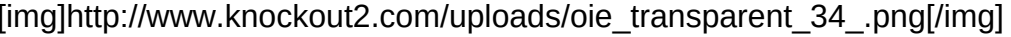
khaleesi - October 27, 2015, 8:19 pm

omni you remember when i pm'd you that i found a massive bug on hf and showed you this

Spoiler ([Click to View](#))

SixtyFPS - *October 27, 2015, 8:34 pm*

(Oct 27, 2015 08:19 PM)khaleesi Wrote: ([CITE](#)) omni you remember when i pm'd you that i found a massive bug on hf and showed you this

Spoiler ([Click to View](#))

Not big enough to be of concern.

djchriz - *October 27, 2015, 10:20 pm*

sweet stuff! keep it up the good work