



YOSHINORI MATSUNOBU'S BLOG

WEDNESDAY, APRIL 6, 2011

Tracking long running transactions in MySQL

Sometimes I want to trace transactions that have taken long time to execute. If a transaction is holding row locks for 30 seconds, all other clients requesting locks for the same rows will be blocked for up to 30 seconds (or will get Lock Wait Timeout errors if you set `innodb_lock_wait_timeout` lower). This is serious.

The important step to solve such issues is identifying what kinds of queries are executed by problematic transactions. But tracking long running transactions is not as easy as tracking just slow queries. Suppose you execute the following transaction.

```
[client1]$ mysql --host=mysql_server db1
mysql> BEGIN;
mysql> SELECT * FROM t1 WHERE id=2 FOR UPDATE;
... (do nothing for 10 seconds)
mysql> UPDATE t1 SET value=20 WHERE id=2;
mysql> COMMIT;
```

This transaction takes more than 10 seconds to complete, but each query finishes very quickly. So nothing is written to the slow query log. Analyzing slow query logs is not helpful in this case.

If you enable general query log, all queries including above are written. But this hurts performance (writing to general query log is serialized inside MySQL), and logging all queries makes log file size huge. Analyzing too big log files is not so fun. In addition, neither query execution time nor error code is written to the general query log. So just analyzing general query log is not enough to verify whether the above `SELECT ... FOR UPDATE` took 10 seconds or finished quickly.

How about analyzing statement based binary logs? Unfortunately this is not always helpful. First, uncommitted transactions are not written to the binary log. There are many cases that transactions take long time and finally do rollback. Second, `SELECT` statements (including `SELECT ... FOR UPDATE/LOCK IN SHARE MODE`) are not written to the binary log. When you use locking reads, lots of transactions will be likely to be blocked. You probably want to identify which `SELECT` statement has caused the problem.

Using `SHOW ENGINE INNODB STATUS`? `SHOW ENGINE INNODB STATUS` prints active transactions like below.

```
---TRANSACTION 1B43B50, ACTIVE 24 sec, process no 7388, OS thread id 1235609920 starting index read
mysql tables in use 1, locked 1
LOCK WAIT 2 lock struct(s), heap size 376, 1 row lock(s)
MySQL thread id 23, query id 140396660 client2.example.com 192.168.0.2 root Updating
update t1 set value=100 where id=2
```

```
----- TRX HAS BEEN WAITING 24 SEC FOR THIS LOCK TO BE GRANTED:
RECORD LOCKS space id 0 page no 213041 n bits 80 index `PRIMARY` of table `test`.`t1`
trx id 1B43B50 lock_mode X locks rec but not gap waiting
Record lock, heap no 3 PHYSICAL RECORD: n_fields 4; compact format; info bits 0
0: len 4; hex 80000002; asc  ;;
1: len 6; hex 000001b43b4e; asc  ;N;
2: len 7; hex 810000012d011c; asc  -  ;;
3: len 4; hex 80000002; asc  ;;
```

```
---TRANSACTION 1B43B4F, ACTIVE 34 sec, process no 7388, OS thread id 1096673600
2 lock struct(s), heap size 376, 1 row lock(s)
MySQL thread id 22, query id 140396658 client1.example.com 192.168.0.1 root
```

You can identify that a client from 192.168.0.2 was executing "update t1 set value=100 where id=2" and was waiting for 24 seconds to get some locks. But there is no information about what queries held the lock. A client from 192.168.0.1 (1B43B4F) was running a transaction for 34 seconds, so this was probably the one holding the lock. But there is no information about why it was running for 34 seconds. In this case I want to get all queries that the 1B43B4F executed so far.

ABOUT ME



YOSHINORI MATSUNOBU

I am a database engineer at Facebook. Before joining Facebook, I was a principal database and infrastructure architect at DeNA. My primary responsibility at DeNA was to make our database infrastructure more reliable, faster and more scalable. Before joining DeNA, I worked at MySQL/Sun/Oracle as a lead MySQL consultant in APAC for four years. You can contact me on Yoshinori.Matsunobu_at_gmail.com (replace _at_ with @).

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Tracking long running
transactions in MySQL

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If you can modify application programs, tracing long running transactions is not so difficult. Adding below logics will help.

1. Checking transaction start time (t1)
2. Pushing queries (and current timestamp) by the transaction into some in-memory queue
3. Checking transaction end time (t2)
4. If (t2 - t1) exceeds N seconds, printing all queries that the transaction executed
5. Deleting the in-memory queue

The problem is that this approach is not feasible in many cases. Because long running transactions may be executed from every client, you have to implement tracing logic on all application servers. Modifying core database access codes and re-deploying on all application servers is not fun. If you use O/R mappers, things become more difficult. Modifying database driver programs on all application servers? I don't want to do that.

Based on the above reasons, I thought that the most practical approach is tracing slow transactions on MySQL servers, without modifying any existing program (including client programs and MySQL servers). Hopefully there is a way to do that: capturing MySQL packets and tracking transactions and queries. The above 1-5 tracing algorithm should work.

I implemented the tool "[MySlowTranCapture](#)" and published at [GitHub](#). Here is an example output.

```
[mysql-server]# myslowtrancapture -i eth0
Monitoring eth0 interface..
Listening port 3306..
Logging transactions that take more than 4000 milliseconds..
```

```
From 192.168.0.1:24441
2011/02/23 09:12:17.258307 ->
begin
2011/02/23 09:12:17.258354 <-
GOT_OK
2011/02/23 09:12:17.264797 ->
select * from diary where diary_id=100 for update
2011/02/23 09:12:17.265087 <-
GOT_RES
2011/02/23 09:12:17.277622 ->
select 1
2011/02/23 09:12:17.277713 <-
GOT_RES
2011/02/23 09:13:01.232620 ->
update diary set diary_date=now() where diary_id=100
2011/02/23 09:13:01.232960 <-
GOT_OK
2011/02/23 09:13:17.360993 ->
commit
```

```
From 192.168.0.2:24442
2011/02/23 09:12:20.969288 ->
begin
2011/02/23 09:12:20.969483 <-
GOT_OK
2011/02/23 09:12:20.977699 ->
update diary set diary_date=now() where diary_id=100
2011/02/23 09:13:11.300935 <-
GOT_ERR:Lock wait timeout exceeded; try restarting transaction
2011/02/23 09:13:13.136967 ->
rollback
```

It is easy to identify that the first transaction caused problems. The first transaction held an exclusive lock for diary_id=100 at 09:12:17.264797, and didn't release until 09:13:17.360993. All queries by the transaction completed within a millisecond, so the first transaction was probably sleeping, or took long time to do other logics (i.e. accessing to remote servers and taking long time there) before closing the transaction.

MySlowTranCapture uses libpcap to capture network packets, like tcpdump. Since libpcap loses packets sometimes, it is not guaranteed to capture 100% transactions.

MySlowTranCapture approximately uses 10-30% CPU resources of mysqld process. This is not bad for

short-term analyzing purposes (when I tested tcpdump, it used 140% CPU resources of mysqld, and most of CPU time seemed to be spent for writing network packets to local files).

I sometimes use this tool for debugging, too. Sometimes developers execute unnecessarily many SQL statements within single transaction. MySlowTranCapture is useful to trace such transactions on development servers, by setting -t lower (i.e. 50ms).

POSTED BY YOSHINORI MATSUNOBU
LABELS: [MYSQL](#)

390 COMMENTS:

[Baron](#) said...

1  013 200 of 390 [Newer](#)  03a [Newest](#)  0bb

This is a great tool for this purpose. I wrote about this problem recently here, too:
<http://www.mysqlperformanceblog.com/2011/03/08/how-to-debug-long-running-transactions-in-mysql/> I have found that long-running transactions is one of the most common causes of downtime for our customers. I have usually used some combination of shell scripts and tcpdump to solve this – now I will update our internal wiki to point here :-)

APRIL 6, 2011 AT 8:18 AM

[RS Gold](#) said...

If you enable the general query log, all matters, including the above. But it affects the performance (to write general query log serialized inside MySQL), and log all requests will logfile enormous size. Analysis of large logs is not as fun. Moreover, neither the execution time of queries or fault code written for the general query log. So just the analysis of the general query log is not enough to check if the SELECT above .. FOR UPDATE took 10 seconds and finished quickly.

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OCTOBER 16, 2011 AT 10:35 PM

[Runescape Gold](#) said...

Genuinely amazed! Things quite, clear, open is a outline of your dilemma. It contains the details.

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NOVEMBER 17, 2011 AT 11:05 PM



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NOVEMBER 20, 2011 AT 10:28 PM

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DECEMBER 31, 2011 AT 12:29 AM

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JANUARY 26, 2012 AT 7:48 AM



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sharing your inside tips and tricks. [Ecommerce Software](#)

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JANUARY 30, 2012 AT 12:02 AM



john said...

Thanks for sharing this great info

JANUARY 30, 2012 AT 2:04 AM

tarjetas de bito prepagadas said...

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FEBRUARY 29, 2012 AT 11:23 AM

hugginss jettrees said...

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NOVEMBER 28, 2012 AT 9:10 PM



Jeremy Lee said...

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FEBRUARY 20, 2013 AT 5:28 AM



soft said...

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FEBRUARY 27, 2013 AT 6:24 PM



geetha said...

wonderful information, I had come to know about your blog from my friend nandu , hyderabad,i have read atleast 7 posts of yours by now, and let me tell you, your website gives the best and the most interesting information. This is just the kind of information that i had been looking for, i'm already your rss reader now and i would regularly watch out for the new posts, once again hats off to you! Thanks a ton once again, Regards, MySql [online training](#) among the MySql in Hyderabad.

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MARCH 6, 2013 AT 11:17 PM



GuildWars2Items said...

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MARCH 24, 2013 AT 5:46 PM



GuildWars2Items said...

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MARCH 24, 2013 AT 5:50 PM

bruno berk said...

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APRIL 12, 2013 AT 11:01 AM



de wo said...

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APRIL 18, 2013 AT 10:14 PM



Doris Eudora said...

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MAY 2, 2013 AT 12:18 AM



hazel Blossom said...

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MAY 2, 2013 AT 12:24 AM



king 9k5 said...

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MAY 8, 2013 AT 5:46 AM



Chris Westerfield said...

Thanks a lot. It was interesting to read even if it's too difficult for me to do it myself. I'm only beginner

MAY 22, 2013 AT 10:59 AM



sse said...

I've read your things before and you are just too awesome. I adore what you have got right here. You make it entertaining and you still manage to keep it smart. This is truly a great blog. Thanks for sharing. [VPN service](#)

MAY 25, 2013 AT 11:56 PM



Cahaya Mandiri said...

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MAY 27, 2013 AT 5:51 PM



sse said...

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JUNE 10, 2013 AT 12:40 AM



sse said...

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JUNE 17, 2013 AT 1:23 AM



sse said...

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JULY 7, 2013 AT 10:54 PM

[Roovi Kusunandar](#) said...

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JULY 8, 2013 AT 1:59 AM



[Andriani Rahmawati](#) said...

Mysql is the lesson make headache.., thanks for share..

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JULY 21, 2013 AT 7:13 AM



[Bell Brown](#) said...

The blog was absolutely fantastic! Lot of great information which can be helpful in some or the other way. Keep updating the blog, looking forward for more contents...Great job, keep it up.

[Defect Bug Tracking](#)

AUGUST 6, 2013 AT 9:31 PM



[hazel Blossom](#) said...

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AUGUST 19, 2013 AT 5:25 AM



[jimmy wilson](#) said...

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SEPTEMBER 11, 2013 AT 12:26 PM



[jimmy wilson](#) said...

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Jimmy Wilson from [Harley Davidson Motorcycle Jacket](#)

SEPTEMBER 11, 2013 AT 12:45 PM

Brendon Taylor said...

These queries are a great tool to avoid problematic issues. [custom coursework](#) | [buy coursework online](#) | [do my coursework](#)

SEPTEMBER 19, 2013 AT 9:42 AM



Jess said...

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SEPTEMBER 21, 2013 AT 1:24 AM

James Lawton said...

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OCTOBER 29, 2013 AT 10:07 PM

Charlie Jonathan said...

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OCTOBER 31, 2013 AT 12:13 AM



Lorena Alice said...

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NOVEMBER 9, 2013 AT 4:08 AM

maegan meredith said...

These MySQL queries are new for me. It's so useful for me or those students who are developing websites.[do my research paper for me](#) , [professional research paper writers/](#)

NOVEMBER 13, 2013 AT 3:31 AM

stuart gorrez said...

After read this blog I have an idea about how to track a long running transactions. That's so nice of you for sharing this valuable information with us.[dissertation writing online](#) , [coursework writers online](#).

NOVEMBER 30, 2013 AT 4:58 AM

Dean Jones said...

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DECEMBER 14, 2013 AT 7:32 AM

Jasmine Peyton said...

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DECEMBER 23, 2013 AT 11:37 PM

Helen Dina said...

Is a long-running transaction. If a transaction remains open for a very long time without committing, and has modified data, then other. Transactions pose a problem. More interesting are open transactions which are known to hold locks. I will improve the view to include such info. [pay for essay - essayboutique.co.uk](#)

JANUARY 2, 2014 AT 8:21 AM



justin Reuban said...

This debate will not be over we should start it again.....[maths coursework writers](#) || [science coursework writers](#)

FEBRUARY 3, 2014 AT 11:42 AM



ravi said...

hi,

i used the tool and i get the below result

```
[wcuser@wc-devc-vm12 ~]$ sudo /usr/local/bin/myslowtrancapture
```

Monitoring any interface..

Listening port 3306..

Logging transactions that take more than 4000 milliseconds..

there are txn that are lock wait time outing (from the java server exception) and on db we configured the lock wait timeout to 20 seconds. However we dont see the tool capture such queries on the db server; any clues?

FEBRUARY 5, 2014 AT 4:20 AM

Acker Reuben said...

Of course, in some cases it♦019s actually easy to figure out what the long-running transaction is doing. The most obvious is if it♦019s a long-running query.

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FEBRUARY 13, 2014 AT 7:28 AM

Andrew Alpert said...

If you are looking for English [coursework writing service](#) so check [Essay Palace](#) I have good experience with this company so far. Cheers.

APRIL 8, 2014 AT 4:53 AM



akram irhal said...

I was very pleased to find this site.I wanted to thank you for this great read!! I definitely enjoying every little bit of it and I have you bookmarked to check out new stuff you post. [Visit Simple Cash Code](#)

APRIL 13, 2014 AT 8:02 AM



akram irhal said...

[Binary German Robot](#) norbert and German mystery broker exhibited incalculable individuals exchanging double choices. That is the reason we do a survey of german binary robot. Norbert R. is a rebel German broker who has instructed individuals around the dreamland of his German exchanging method binary alternatives Banker mystery.

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APRIL 14, 2014 AT 3:21 PM

Jerukukuk said...

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APRIL 21, 2014 AT 6:05 AM



sadia sulaman said...

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APRIL 22, 2014 AT 11:30 PM

cabe pedas said...

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[paket wisata bromo](#)

JUNE 1, 2014 AT 9:21 AM

stewart fitch said...

There are many cases of transactions but your defined way is really awesome..

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JUNE 30, 2014 AT 11:18 AM

bromo indah said...

[tempat wisata batu malang](#) said : good job and good idea

JULY 15, 2014 AT 9:19 AM



akram irhal said...

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JULY 19, 2014 AT 10:48 AM



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AUGUST 21, 2014 AT 1:59 AM



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AUGUST 21, 2014 AT 2:00 AM



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AUGUST 21, 2014 AT 2:00 AM



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AUGUST 21, 2014 AT 2:01 AM



deny android said...

Michael Kors Michael Gros is pleased to announce, vogue blogger Michelle wearing Michael Kors 2014 summer season sequence navy white striped shorts and a windbreaker considering the very same [Goyard Tote Outlet](#) paragraph traditional Michael Kors Hamilton handbags, Haji Lane stroll the streets of Kazakhstan pose Lane Singapore. Michael Kors purses sizzling brands Sutton, fragile brown and white hit color style, possibly hand, can shoulder, with Michael Kors wave issue sleeveless gown and gold look at, informal model lacking dropping the boldness of fashionable [Gucci Handbags Outlet Canada](#) city adult females temperament. Benefit us say that [Michael Kors Outlet Canada](#) you will have observed, Michael Kors has now end up a ubiquitous model [Longchamp Tote Bags Canada](#). Appears like Michael Kors trend market place is becoming general public enemy. A short time ago, the American luxurious brand [Goyard Tote Outlet Canada](#) unveiled a quarterly light-weight ended June 28 ended the reporting interval the company's income rose forty three p.c, it is Michael Kors 33rd consecutive quarter of revenue advancement.

AUGUST 21, 2014 AT 3:02 AM



deny android said...

Model turned his notice towards East this period. Uncovered from comprehensive outline of common Japanese inspiration, Karen Millen Karen Milian choosing upcoming elements, to point out the graphic of recent gals. Every single [Karen Millen Sale](#) product or service or Japanese artwork of origami-style folds of ruffles, or from exaggerated metal items, or inspiration with the general floral print, a singular attractive concept from. Satin kimono material and [Karen Millen Outlet](#) composition fashion attire and jackets, wide-sleeved shirt and double-breasted coat; exaggerated rosebuds loaded black lace [Mont Blanc Pens Sale UK](#) overlaid on pale inexperienced, provides a strong feminine fit for decorative skirts and trousers; temptation underwear the folds, dots and lightweight nude shade into your boudoir glamor [Chrome Hearts Online](#); wonderfully etched floral oriental ornament for prom dresses added.

AUGUST 21, 2014 AT 3:03 AM



deny android said...

Set versions most suitable to the workplace commuter equipment is worn, not only saves time and also aided by the self into a common, so that women's gown impeccable style. Slender trendy model seems exceedingly neat [Parajumpers Jackets](#) and but feminine, retro edition accompanied both of those tasteful and refreshing and shiny, supplying good quality points will almost always be a sense of eternal existence beyond the constraints of time. Three-dimensional vibrant, full of a perception of [Moose Knuckles Canada](#) profile of wool coat, equally fabulous and warm. H-type clothing [Canada Goose Women Jackets](#) and whole body search neat environment, there is no restrict around the dimension of, but did [Canada Goose Sale Canada](#) not see the bloated, so think more at ease and assured wearing. The cherry pink sweater ride for the bleak autumn delivers brilliant and vitality, with plain white skirt, exhibiting peaceful beauty. Temperament serves as a compliment towards the female anxious, it originates from self-confident, professional, sensible. Exquisite experience in the end as time goes by, and temperament is just the alternative, with all the passage of time a lot more clear. This is certainly

a consumers convincing gesture, basic but not very simple.

AUGUST 21, 2014 AT 3:03 AM



deny andoid said...

Nike Shox Expertise + iD series of running shoes making use of an impressive cushioning process, which mixes human movement engineering technological innovation, Max Air cushioning engineering, in addition as common Shox sequence moves smoother [Nike Shox Norge](#) compared to Nike Shox and Nike Zoom cushioning security technological innovation. which [Nike Free run Sverige](#) groundbreaking NIKE SHOX SHOX cushioning scheme abandoned the family unit inside of the common foam ankle style and design, changed the use of NIKE AIR airbag develop, as a result offering a far more light-weight consolation and effect security [Nike Free Run Sverige Billiga](#) even with the ankle for the toe force distribution. whole palm CUSHLON sole [Men Vans Half Cab Pro](#) cushioning structure abandoned audio SHOX sequence [Vans Shoes Outlet](#) developed on the old fashioned foam ankle, replaced using NIKE AIR airbag structure, consequently offering a far more light-weight impression protection and comfort from your ankle on the toe by a uniform drive distribution.

AUGUST 21, 2014 AT 3:04 AM

bromo indah said...

i am come back here,thanks for link

[paket wisata bromo](#)

[Paket Wisata Bromo](#)

[paket wisata bromo](#)

[pantai wisata bali](#)

AUGUST 25, 2014 AT 10:10 PM



Mohamed Abakrim said...

[2014 Millionaire Review](#) Are you looking for 2014 Millionaire Review and haven't found one yet which tells you the honest truth? Don't worry, because I'm going to save your time and tell you what is 2014 Millionaire software by Stan Lutz and how 2014 Millionaire system works to make you money online. - Get The Truth!

AUGUST 27, 2014 AT 4:40 PM



Paul Lewis said...

Wonderful blog post. I really appreciate the quality of your work here. keep writing that kind of content as this is really Great.

[Dissertation Writing Service | Best Essay Writing](#)

SEPTEMBER 16, 2014 AT 3:15 AM

wisata murah said...

[Paket Wisata Bromo,aat adi1,Paket Wisata Bromo,uki adi,Paket Wisata Bromo,aat adi2,aatadi,aat adi,Paket Wisata Bromo,aat adi,Paket Wisata Bromo,Paket Wisata Bromo,Paket Wisata Bromo,Paket Wisata Bromo,Wisata Bromo,Paket Wisata Bromo,Paket Wisata Bromo,Paket Wisata Bromo,Paket Wisata Bromo,Paket Wisata Bromo,Paket Wisata Bromo,Paket Wisata Bromo,Paket Wisata Bromo](#)

SEPTEMBER 30, 2014 AT 8:45 PM

Bryan Parker said...

Superb one! I have never read such a nice article; topic and the comments are good. I have learned many things from all your post and this one was the best post for me. I really enjoyed reading it and craving more tips from you💎026 thank you for such an engaging article.

[Professional Degree | Logo Design](#)

OCTOBER 2, 2014 AT 5:59 AM

Bryan Parker said...

I forgot to mention that this post has been shared by me on several blogs because it's a useful one and I decided to share it with my friend on facebook as well. Thanks for sharing such a nice post. Keep it up.

[Online Degree Program | Animated Videos](#)

OCTOBER 2, 2014 AT 6:00 AM



Jimmy Meraz said...

This is an excellent post i seen.I have to thanks to you to share it. It is really what I wanted to see hope in future you will continue for sharing such a excellent post.

[Dissertation writing services](#)

OCTOBER 14, 2014 AT 1:25 AM



panca-samudera said...

The article posted was very informative and useful thanks for sharing.

[jaring futsal](#) , [jaring futsal murah](#) , [jual jaring futsal](#) , [toko jaring futsal](#) , [agen jaring futsal](#) , [jaring golf](#) , [jual jaring golf](#) , [jaring golf murah](#) , [jaring polynet](#) , [tangga darurat](#) , [jaring truk](#) , [jaring cargo](#) , [jaring outbound](#) , [jual rumput futsal murah](#) , [jual rumput sintetis murah](#) , [tali tambang](#) , [cargo net](#) , [jaring tanaman](#) , [jaring kassa](#) , [jaring proyek](#) , [jaring bangunan](#) , [jaring gedung](#) , [jaring pengaman proyek](#) , [jaring pengaman bangunan](#) , [jaring pengaman gedung](#) , [jaring peneduh](#) , [jaring waring](#) , [kasa hijau](#) , [tangga darurat](#) , [jaring gawang futsal](#) , [jual jaring gawang futsal murah](#) , [jaring peneduh](#) , [jaring truk](#) , [tali tambang nylon](#)

OCTOBER 17, 2014 AT 11:33 PM

Bryan Parker said...

Superb one! I have never read such a nice article; topic and the comments are good. I have learned many things from all your post and this one was the best post for me. I really enjoyed reading it and craving more tips from you💎026 thank you for such an engaging article.

[Professional Degree I Logo Design](#)

OCTOBER 20, 2014 AT 5:20 AM

Bryan Parker said...

No content is comparable and admirable then this mentioned for the explanations, a must one to read for everyone and get assisted.

[Online Degree Program I Animated Videos](#)

OCTOBER 20, 2014 AT 5:21 AM

cabe pedas said...

[Paket Wisata Bromo](#)
[Paket Wisata Bromo](#)
[Paket Wisata Bromo](#)
[Wisata Bromo](#)
[Paket Wisata Bromo](#)
[Paket Wisata Bromo](#)
[Paket Wisata Bromo](#)
[Paket Wisata Bromo](#)
[Paket Wisata Bromo](#)
[Paket Wisata Bromo](#)
[Paket Wisata Bromo](#)

OCTOBER 28, 2014 AT 8:16 AM



Jimmy Meraz said...

Amazing Blog Post. Blog Post provide acceptable obsession. The offer impacts on numerous standard worries of your brain..

[Thesis writing service in UAE](#)

OCTOBER 29, 2014 AT 12:51 AM

Billing Consultancy said...



Very productive article. For the details of Medical billing services visit [Medical Billing Companies](#) provides you all the information you need.

NOVEMBER 6, 2014 AT 3:43 AM



Herman Alvarez said...

The author has written an excellent article. You made your point and not much to discuss. Everything has its exception. [Buy Essay Writing Help](#) . Thanks for this information. [buy essay](#)

NOVEMBER 14, 2014 AT 1:44 PM



Nathan Todd said...

Easily, the article is actually the best topic on this registry related issue. I fit in with your conclusions and will eagerly look forward to your next updates. [Buy Custom Essay](#) | [Uk essay writing help](#) Just saying thanks will not just be sufficient, for the fantastic lucidity in your writing. I will instantly grab your rss feed to stay informed of any updates.

NOVEMBER 14, 2014 AT 2:00 PM

Beant Singh - Unique Movers Quotation said...

Hey nice and informative article you have posted ,Keep sharing.
Reply

Movers And Packers Pune
Packers And Movers Ahmedabad
Packers And Movers Hinjewadi Pune
Packers And Movers Magarpatta City Pune
Packers And Movers Viman Nagar Pune
Packing And Moving Services Pune
Packers And Movers Warje Pune
Packers And Movers Hisar
Packers And Movers Surat
Packers And Movers Yervada Pune
Packers And Movers Fatima Nagar
Packers And Movers Baner Pune
Packers And Movers Katraj Pune
Packers And Movers Sangli
Packers And Movers Shivaji Nagar Pune
Packers And Movers Pimple Saudagar Pune
Packers And Movers Pimple Gurav Pune
Packers And Movers Wakad Pune
Packers And movers Aundh Pune
Packers And Movers Hadapsar Pune
Packers And Movers Wagholi Pune
Packers And Movers Delhi Ncr
Packers And Movers Kothrud Pune

Packers And Movers Delhi

Packers And Movers Indore

JANUARY 16, 2016 AT 6:01 AM

Minh V 1b0 1a1ng said...

C 0f4ng ty v ec7 sinh 5 S ea1ch
D ec bch v ee5 gi eb7t th ea3m t ea1i H 0e0 N ed9i
D ec bch v ee5 gi eb7t gh ebf sofa t ea1i H 0e0 N ed9i
V ec7 sinh nh 0e0 sau x 0e2y d ef1ng

JANUARY 18, 2016 AT 12:47 AM



Rohan Rey said...

gunung leuser national park
grand mosque medan
tourist places in north sumatra
tourist places in north sumatra

tourist
tourist
sky
medan
rohan
bundlr
medan
travel
medan
medan
medan
medan
samosir island
samosir island
samosir island
samosir island
samosir island
tourist north sumatra
white crater indonesia
sumatra travel
sumatra tours travel
north sumatra
anda sumatra
anda sumatra
anda sumatra
anda sumatra
anda sumatra
sumatra travel
tourist places in north sumatra
tourist places in north sumatra
young
JANUARY 18, 2016 AT 8:24 AM



silverjaipur said...

earring
pendant
necklace
rings
diamond jewellery
silver jewelery
long chain
braslates

JANUARY 21, 2016 AT 2:33 AM



silverjaipur said...

earring
pendant
necklace
rings
diamond jewellery
silver jewelery
long chain
braslates

JANUARY 21, 2016 AT 2:33 AM



silverjaipur said...

This comment has been removed by the author.
JANUARY 21, 2016 AT 2:34 AM

Tokobukuonline Jaya said...

Smart business owners understand the investment in looking to others for their expertise in areas they are unable to address on their own. [freight forwarder di Jakarta](#) | [freight forwarder di Jakarta](#) | [freight forwarder Jakarta](#) | [freight forwarder](#) | [Rental Mobil](#) | [freight forwarder Indonesia](#)

JANUARY 23, 2016 AT 6:17 AM



Apoorva Joshi said...

Cabs in bangalore
Cabs in chennai

Cabs in delhi

Cabs in hyderabad

Cabs in kolkata
Cabs in mumbai

JANUARY 23, 2016 AT 10:27 PM



Apoorva Joshi said...

Cabs in bangalore
Cabs in chennai

Cabs in delhi

Cabs in hyderabad

Cabs in kolkata
Cabs in mumbai

JANUARY 23, 2016 AT 10:28 PM

yotesh bhati said...

A very awing web log post. We have a tendency to be very grateful for your web log post. you'll notice plenty of approaches when visiting your post. i used to be specifically looking for. Thanks for such post and please keep it up. Great work.[Cold Lab Chamber](#)

[Laboratory deep freezer](#)

[Vertical Deep Freezer](#)

[Vertical Deep Freezer](#)

JANUARY 28, 2016 AT 5:53 AM



Apoorva Joshi said...

Cabs in bangalore
Cabs in chennai

Cabs in delhi

Cabs in hyderabad

Cabs in kolkata
Cabs in mumbai

JANUARY 30, 2016 AT 7:46 PM



slim said...

[Step Up Height Increaser](#) is a 100% Ayurvedic Body Growth System.

Step Up offers Amazing Results! After using StepUp Height Increaser you will see new confidence in yourself.

Step Up Height Increaser is a revolutionary step by step total growth system, It gives the required nutrients to

the body that help to increase height & also lead to total body growth.

FEBRUARY 2, 2016 AT 10:38 PM



slim said...

Step Up Height Increaser is a 100% Ayurvedic Body Growth System.
Step Up offers Amazing Results! After using StepUp Height Increaser you will see new confidence in yourself.
Step Up Height Increaser is a revolutionary step by step total growth system, It gives the required nutrients to the body that help to increase height & also lead to total body growth

FEBRUARY 2, 2016 AT 10:46 PM

prem chand said...

Holi 2016 Images , Holi 2016 Sms , Holi 2016 Quotes , Happy Chocolate Day 2016 , Chocolate Day 2016 images , Happy Chocolate Day Sms , Chocolate Day 2016 Messages , Happy Hug Day 2016 , Hug Day 2016 images , Happy Hug Day Sms , Hug Day 2016 Messages , Happy Kiss Day Sms , Kiss Day 2016 Messages , Happy Kiss Day 2016 , Kiss Day 2016 images , Holi Images Pictures for Facebook and Whatsapp Status , Holi Photos , Holi Pics , Holi Pictures Holi

FEBRUARY 5, 2016 AT 9:42 AM

yotesh bhati said...

It is additionally a really sensible post that I actually enjoyed reading. it's not every day that I actually have the chance to examine one thing like this.[laminar air flow manufacturer](#)
[laminar air flow manufacturer in Delhi](#)
[Horizontal Laminar Air Flow](#)

FEBRUARY 9, 2016 AT 5:16 AM



ME said...

Directory of Jepara Republic Indonesia [Teak Furniture](#) Wholesaler, Exporters, Suppliers and Manufacturer. Indonesian factory market reference industry online for wholesale orders. [Indonesia Furniture](#), [Teak Indoor Furniture](#) such as [Teak Chairs](#), [Jepara Furniture](#) and [Solid Teak Furniture](#). Experienced [Indonesian Teak Garden Furniture](#) with details items following [Teak Garden Benches](#), [Teak Table Outdoor](#), which become trusted company based on Jepara especially in furniture shipping business. read further [Indonesian Furniture](#) and [Furniture Indonesia](#) for more support.

FEBRUARY 11, 2016 AT 1:13 PM

Minh V 1b0 1a1ng said...

d ec bch v ee5 lau d ec dn nh 0e0 c ee da, v ec7 sinh v 103n ph 0f2ng, v ec7 sinh nh 0e0 c ee da, gi eb7t th ea3m, gi eb7t gh ebf sofa, lau k 0ednh t 0f2a nh 0e0 cao t ea7ng, d ec bch v ee5 v ec7 sinh sau x 0e2y d ef1ng

FEBRUARY 12, 2016 AT 6:17 AM



Packers Movers Kolkata said...

Nice blog i must say u had done a tremendous job here thanks for all the efforts you made.
Please visit our official website for necessary information we provided-
<http://kolkatapackersmovers.in/>
<http://kolkatapackersmovers.in/packers-and-movers-birbhum>

FEBRUARY 12, 2016 AT 10:25 PM



Packers Movers Jaipur said...

I really enjoyed reading your blog, you have lots of great content. Please visit here:
<http://jaipurpackersandmovers.in/>
<http://jaipurpackersandmovers.in/packers-and-movers-alwar>
<http://jaipurpackersandmovers.in/packers-and-movers-ajmer>
We are expert in Handling, Movers And Packers Jaipur and Packing & Shifting of Household Goods, Office goods, Commercial Equipment and Car, Logistics and Transportation.
[Packers And Movers Jaipur](#)

FEBRUARY 13, 2016 AT 12:13 AM



Apoorva Joshi said...

[Cabs in bangalore](#)
[Cabs in chennai](#)

[Cabs in delhi](#)

Cabs in hyderabad

Cabs in kolkata

Cabs in mumbai

FEBRUARY 14, 2016 AT 10:15 PM



Valentines Day said...

Porn Videos , Porn Sex Videos , Porn Videos Pennis Pussy , Porn Videos of Young Virgin Girls , Sex Videos , Porn Videos of 12 Year old Girl , Australia Porn Videos , USA Porn Young Videos , Hindi Porn Videos , Tamil Porn Videos

Porn Videos , Porn Sex Videos , Porn Videos Pennis Pussy , Porn Videos of Young Virgin Girls , Sex Videos , Porn Videos of 12 Year old Girl , Australia Porn Videos , USA Porn Young Videos , Hindi Porn Videos , Tamil Porn Videos

Porn Videos , Porn Sex Videos , Porn Videos Pennis Pussy , Porn Videos of Young Virgin Girls , Sex Videos , Porn Videos of 12 Year old Girl , Australia Porn Videos , USA Porn Young Videos , Hindi Porn Videos , Tamil Porn Videos

Porn Videos , Porn Sex Videos , Porn Videos Pennis Pussy , Porn Videos of Young Virgin Girls , Sex Videos , Porn Videos of 12 Year old Girl , Australia Porn Videos , USA Porn Young Videos , Hindi Porn Videos , Tamil Porn Videos

FEBRUARY 15, 2016 AT 8:25 AM

62d633627645 62f62764862f said...

level634631643629 62a63364464a643 64562c627631649

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634631643629 62a64663864a641 62862764463164a627636

634631643629 62a64663864a641 634642642

62862764463164a627636

634631643629 62a64663864a641 645646627632644

62862764463164a627636

634631643629 62a64663864a641 62e63264662762a

62862764463164a627636

634631643629 64564362764162d629 62d63463162762a

62862764463164a627636

634631643629 631634 64562864a62f62762a

62862764463164a627636

634631643629 62a62e63264a646 62762b62762b

62862764463164a627636

634631643629 62a64663864a641 64562c627644633

62862764463164a627636

634631643629 62a64663864a641 641644644

62862764463164a627636

FEBRUARY 15, 2016 AT 1:32 PM

Paul Smith said...

Of course, tracking long running transactions is not as easy as tracking just slow queries. And now it seems nothing's news to me. Well... thanks for sharing anyway. Don't you want to be blamed by custom writing plagiarism? If so, just contact me now.

FEBRUARY 16, 2016 AT 1:04 AM



Packers Movers Kolkata said...

Nice blog i must say u had done a tremendous job here thanks for all the efforts you made.

Please visit our official website for necessary information we provided-

<http://kolkatapackersmovers.in/>

<http://kolkatapackersmovers.in/packers-and-movers-north-24-parganas>

FEBRUARY 16, 2016 AT 2:37 AM

Davinder Singh said...

Happy Holi Status 2016

Happy Holi Status

Holi Status

Holi Status 2016

Oscars 2016

Oscars 2016 Nominations
Oscars 2016 Winners List
icc t20 World cup Live
ICC world cup live
ICC T20 World Cup Live 2016
T20 World Cup Live Streaming 2016
Movie collection
Box Office Collection
FEBRUARY 18, 2016 AT 7:56 AM



Packers Movers Pune said...

This is very interesting, you are a very skilled blogger. plz visit here :<http://packersmoverspune.org/>
<http://packersmoverspune.org/packers-and-movers-pune-to-hyderabad>
<http://packersmoverspune.org/packers-and-movers-pimple-pune>
[Packers And Movers Pune](#) Relocation, Main Office in Pune Maharashtra India, is a most important company relocation and home shifting services association provided that relocation solutions to individuals and company houses.

FEBRUARY 18, 2016 AT 9:37 PM



DistributorBM said...

[Jasa Kaligrafi Masjid](#)
[Harga Kaligrafi Masjid](#)
[Kaligrafi Dinding Masjid](#)
[Kaligrafi Masjid](#)

FEBRUARY 25, 2016 AT 12:06 AM

Tahir Bahi said...

Hello my friend! I want to say that this post is awesome, great written and include almost all important infos. I would like to see more posts like this .

[Destroy Windows 10 Spying Keygen](#)
FEBRUARY 25, 2016 AT 11:03 PM



Prena Sharma said...

I like your website very much thanks for your share. all the information are useful for me, I will come again. Please visit here:
[Packers And Movers Gurgaon](#)
<http://packers-and-movers-gurgaon.in/packers-and-movers-gurgaon-to-bhopal>

FEBRUARY 26, 2016 AT 12:10 AM

Apply Govt jobs said...

[Latest Government Jobs](#)
[Latest Bank Job Openings](#)
[SSC Jobs](#)
[psc jobs](#)
[govt jobs in harayana](#)

[Watch Movies Online Live](#)
[Watch Movies Online](#)

[Happy Holi Image 2016](#)
[Holi 2016](#)

[Happy Holi 2016](#)
[Happy Holi SMS](#)
FEBRUARY 26, 2016 AT 2:47 AM



Packers and Movers Bhubaneswar said...

Thanks for sharing useful information for us. I really enjoyed reading your blog, you have lots of great content. Please visit here:
<http://bhubaneswarpackersmovers.in/>

<http://bhubaneswarpackersmovers.in/packers-and-movers-bhubaneswar-to-pune>

FEBRUARY 26, 2016 AT 11:43 PM

prem chand said...

[Happy Holi 2016](#) , [Happy Holi 2016 Messages](#) , [Happy Holi 2016 Sms](#) , [Happy Holi 2016 Pics HD Images Ecards](#) , [Happy Holi 2016 Messages Msg Hindi Quotes Sms](#)

[Women's Day 2016 Wishes](#) , [Women's Day 2016 Quotes](#) , [Women's Day 2016 Images](#) , [International Women's Day 2016 Images Pictures for Facebook and Whatsapp](#) , [Happy International Women's Day Wishes Quotes](#) , [Happy International Women's Day Images Pictures Greeting](#)

[Holi Messages Wishes Sms](#) , [Holi 2016](#) , [Happy Holi](#) , [Facebook Whatsapp Status](#)

FEBRUARY 28, 2016 AT 8:33 AM



ams boss said...

This is a wonderful article, Given so much info in it.

[angel investors india](#)

FEBRUARY 28, 2016 AT 11:56 PM

Tahir Bahi said...

Hi there very cool site!! Man .. Excellent .. Amazing ..

I'll bookmark your blog and take the feeds also? I'm glad to search out a lot of useful info

here in the publish, we'd like work out extra strategies in this regard...

THANKS FOR SHARING

FEBRUARY 29, 2016 AT 1:24 AM

Tahir Bahi said...

Hi there very cool site!! Man .. Excellent .. Amazing ..

I'll bookmark your blog and take the feeds also? I'm glad to search out a lot of useful info

here in the publish, we'd like work out extra strategies in this regard...

THANKS FOR SHARING

FEBRUARY 29, 2016 AT 1:32 AM

yotesh bhati said...

I want to it articles thank for your time of this nice read!!! I definitely enjoy every little bit of it and I have you bookmarked to check out new stuff on your blog a must read blog!!!!

[Vertical Deep Freezer](#)

[Horizontal Deep Freezer](#)

[Blood Deep Freezers](#)

[Vertical Double Door Deep Freezer](#)

[Glass Door vertical Deep freezers](#)

MARCH 1, 2016 AT 8:07 AM

Anvesh Patel said...

Nice Article !

Really this will help to people of MySQL Community.

I have also prepared small note on this, log general and long running queries of MySQL Server.

<http://www.dbmd.com/2015/11/mysql-how-to-log-general-and-long-running-queries-into-log-table/>

MARCH 1, 2016 AT 1:07 PM



Packers And Movers Bangalore said...

You have well written post, I search through the search engine and found your blog. You have good skill of writing, sure I will keep stay tune with your next post. Visit my travel blog

[Packers And Movers Bangalore](#)

<http://packers-and-movers-bangalore.in/packers-and-movers-horamavu-bengaluru>

<http://packers-and-movers-bangalore.in/packers-and-movers-hennagara-bengaluru>

<http://packers-and-movers-bangalore.in/packers-and-movers-hampinagar-bengaluru>

Packers and Movers Bangalore provide you best services for transporting your goods and vehicles to your new place. We handle it with best care.

MARCH 1, 2016 AT 10:36 PM



Abhi K said...

Best packers and movers in Navi Mumbai, household shifting service in Navi Mumbai, home relocation in Navi Mumbai, car carriers service in Navi Mumbai, car transport in Navi Mumbai.
[packers and movers Navi Mumbai](#)

MARCH 2, 2016 AT 3:33 AM



Packers And Movers Bangalore said...

You have well written post, I search through the search engine and found your blog. You have good skill of writing, sure I will keep stay tune with your next post. Visit my travel blog
[Packers And Movers Bangalore](#)

<http://packers-and-movers-bangalore.in/packers-and-movers-horamavu-bengaluru>

<http://packers-and-movers-bangalore.in/packers-and-movers-hennagara-bengaluru>

<http://packers-and-movers-bangalore.in/packers-and-movers-hampinagar-bengaluru>

Packers and Movers Bangalore provide you best services for transporting your goods and vehicles to your new place. We handle it with best care.

MARCH 3, 2016 AT 1:02 AM



Raksha Jain said...

[Packers And Movers Mumbai](#)

Thanks for sharing useful information for us.I really enjoyed reading your blog, you have lots of great content.

<http://packersmoversmumbaicity.in/packers-and-movers-gadchiroli-maharashtra>

MARCH 5, 2016 AT 12:00 AM

Tahir Bahi said...

Thanks for sharing, nice blog and your article. please visit me

[IDM 6.5 Build 5 kegan](#)

[Trend Micro Antivirus](#)

[Windows 7 Product Key](#)

[Adobe Illustrator CC 2016 Crack](#)

MARCH 6, 2016 AT 9:53 PM

Delhi to Ajmer Taxi said...

Great post and here you are presenting each and everything very nicely and everyone loved to read this post.

[taxi from delhi to ajmer](#)

MARCH 10, 2016 AT 4:17 AM

634631643629 631648627626639 64464462e62f64562762a said...

634631627621 62762b62762b 64563362a639645644

62862764463164a627636

634631627621 62764462762b62762b

62764464563362a639645644 62862764463164a627636

64562d64462762a 634631627621 62764462762b62762b

62764464563362a639645644 62862764463164a627636

627631642627645 62764462762b62762b

62764464563362a639645644 62862764463164a627636

62d64264a646 62764462762b62762b

62764464563362a639645644 62862764463164a627636

634631627621 62762b62762b 64563362a639645644

MARCH 14, 2016 AT 2:02 AM

Curtis Albert said...

That is a well written and detailed article on 'Tracking long running transactions in MySQL'. I agree with you that that modifying core database access codes and re-deploying on all application servers is not fun. If you use O/R mappers, things become more difficult.

[College Lab Reports Writing Site](#)

MARCH 15, 2016 AT 4:39 AM

Rakhsita Sharma said...

Your website content is fabulous and awesome but I would like to say your website also good.

Thanks for sharing... Keep it up..

<http://packersmoverschennai.in/packers-and-movers-tuticorin-thoothukudi-tamilnadu>

<http://packersmoverschennai.in/packers-and-movers-tuticorin-thoothukudi-tamilnadu>

<http://packersmoverschennai.in/packers-and-movers-tiruchirappalli-tamilnadu>

With the many years of experience in supporting people with this requirements and colossal assortment of packers and movers organizations Chennai, we require push to invest you with the better choices. In this way, how about we come us and get help with the best help.

[Packers And Movers Chennai](#)

MARCH 15, 2016 AT 5:17 AM



packers movers chandigarh said...

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Thanks for sharing useful information for us. I really enjoyed reading your blog, you have lots of great content.

<http://chandigarhpackersandmovers.in/packers-and-movers-rupnagar>

MARCH 17, 2016 AT 5:01 AM

Packers Movers Patna said...

Its good to be here, very nice post, the content is amazing, keep posting friend it will be very helpful for everyone, Thanks for sharing. I really liked it. We can assist you on your household shifting. Shifting home to a new place is considered as a hectic and tedious task. @ [Packers And Movers Patna](#)

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MARCH 21, 2016 AT 3:11 AM



Samsundar Jana said...

Thanks you for this article. Really interesting and awesome article.

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kolkata-700060

Phone: 9830233978

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<http://www.packers-and-movers-kolkata.in/packers-and-movers-jadavpur.html>

MARCH 24, 2016 AT 10:34 AM



Linda Rose said...

I would like more information about this, because it is very nice., Thanks for sharing.

[Trollface Quest 2 | Papa Louie 2 | Dr Driving | Square Quick](#)

MARCH 31, 2016 AT 9:45 PM

Albert Barkley said...

Main thing to consider is that all the data that is stored in SQL, should be stored in minimized storage way otherwise those corporations that are storing their data at huge, they would need to use dedicated or VPS SQL server. [Dissertation writing service](#)

APRIL 1, 2016 AT 10:33 PM



Riya Jain said...

I admire the valuable advice you make available in your expertly written content. I want to thank you for this informative read; I really appreciate sharing this great. [Packers And Movers Bhopal](#)

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APRIL 4, 2016 AT 3:00 AM

Sham Bahadur said...

[Mothers Day](#)
[Mothers Day 2016](#)
[Happy Mothers Day](#)
[Mother💎019s Day](#)
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APRIL 6, 2016 AT 8:58 AM

Sham Bahadur said...

[Mothers Day](#)
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[Mothers Day Images](#)
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APRIL 6, 2016 AT 8:59 AM

Sham Bahadur said...

[Earth Day](#)
[Earth Day 2016](#)
[Happy Earth Day](#)
[Happy Earth Day 2016](#)
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[Earth Day Saying](#)
[Earth Day Images](#)
[Earth Day Posters](#)
[Earth Day Banners](#)

[Earth Day](#)
[Earth Day 2016](#)
[Happy Earth Day](#)
[Happy Earth Day 2016](#)
APRIL 6, 2016 AT 8:59 AM



Oracle Equipments said...

Thank you for taking the time to publish this information very useful! I've been looking for books of this nature for a way too long. I'm just glad that I found yours. Looking forward for your next post. Thanks :)

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APRIL 7, 2016 AT 4:38 AM

Jennifer LupeX said...

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APRIL 7, 2016 AT 9:04 PM

Emily Blunt said...



I agree with you that the problem is that this approach is not feasible in many cases. [term papers writing service](#). Because long running transactions may be executed from every client, you have to implement tracing logic on all application servers. Modifying core database access codes and re-deploying on all application servers is not fun.

APRIL 9, 2016 AT 12:01 AM

Bromo Expedition said...

sewa jeep bromo
paket wisata bromo midnight
paket city tour malang batu
paket study tour malang batu
paket wisata malang 3 hari 2 malam
paket wisata kawah ijen 2 hari 1 malam
paket wisata banyuwangi 3 hari 2 malam
paket wisata kawah ijen baluran 3 hari 2 malam
paket wisata kawah ijen baluran menjangsan 3 hari 2 malam
paket wisata bromo malang murah

APRIL 11, 2016 AT 7:18 AM



Amly said...

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APRIL 12, 2016 AT 11:17 PM



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APRIL 12, 2016 AT 11:17 PM



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APRIL 12, 2016 AT 11:18 PM

bromo guide tour said...

paket wisata bromo

paket wisata bromo Malang ijen

paket wisata bromo murah

mount bromo tour packages

wisata malang batu city tour

paket wisata bromo malang

paket wisata bromo songa rafting

paket wisata malang batu city tour

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APRIL 13, 2016 AT 2:21 AM



movein said...

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APRIL 14, 2016 AT 5:35 AM



Bobby Singh said...

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APRIL 15, 2016 AT 12:05 AM



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APRIL 15, 2016 AT 3:31 AM



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APRIL 15, 2016 AT 3:31 AM



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APRIL 15, 2016 AT 3:31 AM



Dazy said...

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APRIL 15, 2016 AT 3:32 AM



movein said...

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APRIL 15, 2016 AT 5:51 AM



Rahul Raichand said...

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APRIL 16, 2016 AT 4:21 AM



Rahul Raichand said...

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APRIL 16, 2016 AT 4:22 AM



Packers Movers Hyderabad said...

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APRIL 17, 2016 AT 10:06 PM

yotesh bhati said...

Thanks for it, i have been seeking for information regarding this material for ages and yours is that the best I even have discovered up to now. [laminar air flow manufacturer](#)

[laminar air flow manufacturer in Delhi](#)

[Dual Chamber Incubator](#)

[Multi Room Incubator](#)

APRIL 20, 2016 AT 3:59 AM



<http://packersmoversbangalore-in.blogspot.in/> said...

Lovely Website, Maintain the fantastic work. Thank you so much!

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APRIL 20, 2016 AT 5:16 AM



<http://packersmoversbangalore-in.blogspot.in/> said...

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Please visit our official website for necessary information we provided-

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Packers And Movers in Bangalore

APRIL 20, 2016 AT 5:16 AM

Packers And Movers Bangalore said...

I really enjoyed reading your blog, you have lots of great content. Please visit here: [Packers And Movers Bangalore](#) Packers-and-Movers-Bangalore.in is well arranged and settled website among all packers and movers company

Packers And Movers Nagasandra bengaluru

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APRIL 22, 2016 AT 12:34 AM

Packers Movers Ahmedabad said...

"Enjoyed every bit of your blog article. Really looking forward to read more. Really Cool."

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APRIL 22, 2016 AT 3:31 AM

Bromo Expedition said...

Paket wisata bromo rafting songa pekalen 2 hari 1 malam by paket wisata bromo

APRIL 24, 2016 AT 9:21 AM

62d633627645 62f62764862f said...

level 62a63364464a643 64562c627631649

62862764463164a627636

627641636644 634631643629 62a64663864a641

62862764463164a627636

62a64663864a641 634642642 62862764463164a627636

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627641636644 634631643629 64564362764162d629

62d63463162762a 62862764463164a627636

631634 64562864a62f62762a 62862764463164a627636

634631643629 62a62e63264a646 639641634

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62a64663864a641 64562c627644633

62862764463164a627636

62a64663864a641 641644644 62862764463164a627636

634631643629 62a64663864a641 62862764463164a627636

APRIL 29, 2016 AT 5:32 AM

Bromo Malang tour said...

Paket Wisata Bromo Malang Honeymoon By Paket Wisata Bromo

APRIL 29, 2016 AT 8:04 PM



Ratna said...

This was a useful post and I think it's fairly easy to see in the other reviews, so this post is well written and useful. Keep up the good work.

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APRIL 29, 2016 AT 10:21 PM



movein said...

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APRIL 30, 2016 AT 4:52 AM

62d633627645 62f62764862f said...

level 62a63364464a643 64562c627631649

62862764463164a627636

627641636644 634631643629 62a64663864a641

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62a64663864a641 634642642 62862764463164a627636

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62d63463162762a 62862764463164a627636

631634 64562864a62f62762a 62862764463164a627636

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62a64663864a641 64562c627644633

62862764463164a627636

62a64663864a641 641644644 62862764463164a627636

634631643629 62a64663864a641 62862764463164a627636

APRIL 30, 2016 AT 8:07 AM



Rakhsita Sharma said...

Excellent post! I must thank you for this informative read. I hope you will post again soon.

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MAY 3, 2016 AT 3:39 AM

yotesh bhati said...

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General Incubator

MAY 3, 2016 AT 10:04 AM

Bromo Malang tour said...

Paket Wisata Bromo Malang By : paket wisata bromo

MAY 3, 2016 AT 7:03 PM



Fereshte Shokri said...

6a964862f 6af6276486cc 6cc627 6af64863364164662f6cc

6a964862f 6af6276486cc 67e6486336cc62f647

6a964862f 6af6276486cc 62a627632647

6a964862f 6af6276486cc 63463362a647 63462f647

6a964862f 6af6276486cc 63463362a647

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6a964862f 6af6276486cc 62f631 64563464762f

641631648634 6a964862f 6af6276486cc

67e6486336cc62f647

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MAY 4, 2016 AT 5:02 AM



Fereshte Shokri said...

641631648634 63364862f 633648632622648631
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MAY 4, 2016 AT 5:02 AM



Fereshte Shokri said...

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MAY 4, 2016 AT 5:02 AM



Fereshte Shokri said...

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Beninca
62a6396456cc631 62f631628 62762a64864562762a6cc6a9
Utab
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Nice
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6326266486446cc62a

MAY 4, 2016 AT 5:03 AM



Fereshte Shokri said...

622628646645627
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62e6316cc62f 62267e62763162a645627646 62f631
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6336466af 62264662a6cc6a9
6a96416336276286cc
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62f62764664464862f 645642627644647

MAY 4, 2016 AT 5:03 AM



Khalid Baid said...

Saheli Couture By Preity Zinta Dresses
Parties Hairstyle
Outfits Fashion For Ladies By Zainab Chottani
Elegant Nail Designs Fashion
Churidar Clothes Fashion Style
Indian Lehenga Choli Bridal Dress
beautiful-outfits
clothes-for-all-girls
gowns-designs-new-clothes
lovely-salwar-kameez-by-kalki-vogue
lehnga choli dresses
bridal makeup
STYLISH SUNGLASSES DESIGNS
FROCKS DESIGNS FASHION
Girls Footwear Selection
Pakistani Lehenga Clothes
Fashion Gallery Lehenga Choli
Stylo Best Mehndi Designs
Zara Shahjahan Eid Dresses
Mehndi Patterns for EID
Sophia Tolli Collection
Earrings In Gold Collection
SHIRTS GRAY MAXI SKIRT SKIRTS
midsummer kurta
anarkali suits
WALKS THE RAMP FOR LALA TEXTILES
MAY 5, 2016 AT 2:20 AM



Rhea Baghchar said...

I must be thankful for sharing your ideas. Thank you for the good writeup. its a brellint job. please

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<http://packers-and-movers-delhi.in/packers-and-movers-dwarka-delhi>

<http://packers-and-movers-delhi.in/packers-and-movers-gurgaon>

[Packers And Movers Noida](#)

[Packers And Movers Yamuna Nagar](#)

MAY 12, 2016 AT 1:15 AM

yotesh bhati said...

It is additionally a really sensible post that I actually enjoyed reading. it's not every day that I actually have the chance to examine one thing like this.

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[automatic vertical autoclave suppliers](#)

MAY 12, 2016 AT 1:20 AM



Rhea Baghchar said...

I must be thankful for sharing your ideas. Thank you for the good writeup. its a brellint job. please

visit here for more detail:

[Packers and Movers Delhi](#)

<http://packers-and-movers-delhi.in/packers-and-movers-dwarka-delhi>

<http://packers-and-movers-delhi.in/packers-and-movers-gurgaon>

MAY 12, 2016 AT 11:08 PM



PRC Music said...

[Packers and Movers Delhi](#) or [Movers and Packers Mumbai](#)

<http://www.prcads.com/packers-and-movers-bangalore.html>

<http://www.prcads.com/packers-and-movers-gurgaon.html>

MAY 14, 2016 AT 10:40 PM



PRC Music said...

[Packers and Movers Delhi](#) or [Movers and Packers Mumbai](#) and [Packers and Movers Bangalore](#) and [Movers and Packers Gurgaon](#) [Packers and Movers Noida](#) or [Movers and Packers Hyderabad](#) and [Packers and Movers Indirapuram](#) and [Movers and Packers Dwarka](#)

MAY 14, 2016 AT 10:46 PM

Rudi Prasetyo said...

Infomasinya sangat bagus dan berguna, terima kasih atas info dan ilmu yang diberikan. Sukses Selalu

[Tour Malang](#)

MAY 19, 2016 AT 2:55 AM



634631643629 646642644 62762b62762b

62862764463164a627636 0506866900 said...

634631643629 62a63364464a643 64562c62763164a

62862764463164a627636

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MAY 25, 2016 AT 7:49 PM



634-631-643-629 646-642-644 627-62b-627-62b
628-627-644-631-64a-627-636 0506866900 said...
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634-631-643-629 643-634-641 62a-633-631-628-627-62a
627-644-645-64a-627-647 628-627-644-631-64a-627-636

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MAY 25, 2016 AT 7:49 PM



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MAY 25, 2016 AT 7:49 PM



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MAY 25, 2016 AT 7:50 PM



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MAY 25, 2016 AT 7:50 PM



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634631643629 62a64663864a641 62e63262764662762a
628627644637627626641

MAY 25, 2016 AT 7:51 PM

Greenwood Jonny said...

WONDERFUL Post.thanks for share..more wait .. 026

obat gonore herbal manjur
obat herbal untuk kanker serviks dan kanker payudara
obat kutil kelamin yang sudah terbukti manjur
cara merontokkan kutil dengan mudah dan cepat
obat kutil kelamin khusus untuk pria
bagaimana cara mengobati kutil kelamin
jual obat untuk kutil kelamin
salep dan kapsul untuk kutil kelamin
obat kutil kelamin tanpa operasi
obat wasir herbal yang manjur dan aman
cara cepat mengobati kutil kelamin
mengobati kencing nanah dengan obat herbal
obat keputihan herbal
obat kanker payudara
mempersempit vagina dengan obat herbal
gejala kutil kelamin

MAY 31, 2016 AT 12:35 AM

Lakshya Dhillon said...

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happy new year 2017 shayari

happy new year 2017 quotes

new year 2017 greetings

happy new year 2017 quotes

sample papers CBSE

new year 2017 quotes

Happy Diwali 2016

new year 2017 wishes

MAY 31, 2016 AT 1:40 AM

Evee Faranisa said...

a very amazing i love it thanks for information obat ambeien

MAY 31, 2016 AT 9:01 PM

Unknown said...



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Best Packers and Movers Noida
Best Packers and Movers Faridabad
Best Packers and Movers Pune
Best Packers and Movers Hyderabad
Best Packers and Movers Ahmedabad
Best Packers and Movers Kolkata
Best Packers and Movers Vadodara
Best Packers and Movers Chennai
Best Packers and Movers Chandigarh
Best Packers and Movers Gurgaon

JUNE 1, 2016 AT 7:07 PM

Evee Faranisa said...

wise once above information, I love to discourse complete and neatly presented, thanks to its admin

<http://acemaxs31.com/obat-darah-tinggi-tradisional/>

JUNE 2, 2016 AT 12:05 AM



Adhana Boy said...

Packers and Movers Kolkata @ <http://www.11th.in/packers-and-movers-kolkata.html>
<http://www.11th.in/packers-and-movers-kolkata.html> @ Packers and Movers in kolkata
<http://www.11th.in/packers-and-movers-kolkata.html> @ Movers Packers kolkata
<http://www.11th.in/packers-and-movers-jaipur/> @ Jaipur Packers and Movers
<http://www.11th.in/packers-and-movers-cochin/> @ Cochin Packers and movers

Packers and movers kolkata
Packers movers kolkata
movers and packers kolkata
Packers and movers in kolkata
Jaipur Packers and Movers
packers movers cochin

JUNE 3, 2016 AT 12:07 AM



Pankaj Kumar said...

We are giving you best shifting services in India and our services is very inexpensive. We have well skilled employees of packers and movers services. We also provide insurance of your goods.

Packers and Movers in Mumbai
Packers and Movers in Gurgaon

JUNE 4, 2016 AT 5:32 AM



Raj Mittal said...

This is a wonderful article, Given so much info in it, These type of articles keeps the users interest in the website, and keep on sharing more ... good luck.[Angel investors for startups](#)

JUNE 6, 2016 AT 12:09 AM



Rahul Raichand said...

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packers and movers pune
packers and movers gurgaon
<http://www.movingsolutions.in/>

JUNE 6, 2016 AT 12:19 AM

Evee Faranisa said...

I really like this website information that has been helpful so I can be a lot of science after the

visit, thank you very much
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JUNE 6, 2016 AT 10:58 PM

yotesh bhati said...

I am simply pretty happy to check in on [one019s](#) own guestbook currently, Your own feedback and listed below square measure glorious in my opinion, incidentally I ought to say conjointly positively can teach some nice supplements for your wants each. [Binocular](#) / [Trinocular](#)
[Microscope](#)
[Hospital microscope](#)
[Laboratory microscope](#)
[Vertical Laminar Air Flow](#)
JUNE 7, 2016 AT 4:14 AM



grezt said...

[obat keluar nanah dari kemaluan](#) Bagi anda yang belum terinfeksi dan tidak ingin terkena penyakit ini, anda bisa melakukan tindakan pencegahan yang pertama yaitu dengan memakai kondom. Kondom dapat membantu anda terhindarkan dari penyakit menular seksual, tidak hanya gonore tapi juga sipilis atau bahkan HIV/AIDS. untuk cara pemesanana silahkan kunjung [blog kami](#)
[Obat Kutil Di Kelamin Wanita](#) Pengobatan yang tidak memperhatikan sampai ke akar-akarnya hanya akan membuat kutil hama tersebut akan tumbuh kembali, dan dalam hal ini adalah kutil. untuk cara pemesanana silahkan kunjung [site kami](#)
JUNE 7, 2016 AT 8:53 PM

Candy Sim said...

All the best blogs that is very useful for keeping me share the ideas of the future as well this is really what I was looking for, and I am very happy to come here. Thank you very much
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[earn to die 2](#)
[earn to die 3](#)
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[earn to die 4](#)
courage to go ahead and give youu a shout out from
[earn to die 6](#)
Austin Texas! Just wanted to tell
[earn to die 5](#)
Hi! [I019ve](#) been reading your blog for a while now and finally got the
[happy wheels](#)
[strike force heroes](#)
[slitherio](#)
you keep up the fantastic work!my weblog
[age of war](#)
[earn to die 5](#)
[good game empire](#)
[tank trouble](#)
[tank trouble 2](#)
[strike force heroes](#)
JUNE 9, 2016 AT 7:03 PM



Raj Mittal said...

This is also a very good post which I really enjoy reading. It is not everyday that I have the possibility to see something like this. [startup investment india](#)
JUNE 10, 2016 AT 4:03 AM

Rudi Prasetyo said...

this is a good post sometimes we have same trouble in [mysql](#)
JUNE 11, 2016 AT 9:30 PM

Evee Faranisa said...

once the website is really inspiring, I wish it good luck, the more cutting edge and always provide information that is useful, familiar greeting from our best link
[obat mata rabun](#)

JUNE 12, 2016 AT 10:52 PM

yotesh bhati said...

I want to it articles thank for your time of this nice read!!!! I definitely enjoy every little bit of it and I have you bookmarked to check out new stuff on your blog a must read blog!!!!

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[Cylindrical autoclave](#)

[Horizontal autoclave manufacturer](#)

JUNE 13, 2016 AT 3:50 AM

1  013 200 of 390 [Newer](#)  03a [Newest](#)  0bb

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