



Case study: Luxbet
Topics: MariaDB, local storage, SSD

Luxbet Pty Ltd (luxbet.com), part of Tabcorp, is a premium racing and sports betting company based in Northern Territory, Australia. It uses innovative desktop and mobile online betting products to provide a range of betting options for racing, sports and other events.

To support its core business operations, Luxbet developed its systems on top of MySQL, building a successful market-leading online betting platform. One of the greatest challenges the system faces is the natural peak in online betting that occurs each year in Australia, on the first Tuesday in November: The Melbourne Cup! For many people this is the one time of year to "take a punt", requiring incredibly adaptable and flexible systems to accommodate such rapid changes in use, when an entire country decides it's time to use Luxbet's services.

Luxbet engages Open Query Pty Ltd to ensure their MySQL and MariaDB environments are architected and configured for optimal operation no matter what the circumstances. With Open Query's help, Luxbet has made a successful transition to MariaDB, and has achieved significant performance and scalability improvements along the way. The true test of success was another Melbourne Cup day during which Luxbet saw record-breaking business, and therefore record-breaking demand on their MariaDB systems, which passed with flying colours.

Designing and Deploying New Storage Technology for MariaDB

Luxbet's historic storage platforms had included a traditional corporate SAN for storage. To meet the scaling challenges, Open Query assisted Luxbet in testing new storage topologies, utilising the latest FusionIO SSD storage. Open Query shared its deep expertise on MySQL and MariaDB storage internals to maximise the improvement Luxbet gained from the change to SSDs.

The advice provided included changing the historic filesystems used for the company database servers to ones best suited to SSD use, testing and calibrating filesystem and MariaDB parameters governing I/O throughput, and performance tuning application and database code in light of the radically changed storage characteristics. With Open Query's help, Luxbet achieved nearly an order of magnitude improvement in I/O throughput.

"The increase in overall system performance was remarkable. Luxbet is now ranked in the top 6 fastest sites providing gaming services. Open Query did a fantastic job."

Marcus Gatt,
Senior Solution Architect,
Luxbet



Success Snapshot

With Open Query's help, Luxbet achieved:

- An order-of-magnitude performance enhancement
- Successful move to solid-state disk for key MariaDB databases
- Easy scaling for the most demanding time of year for their business
- A record top-6 finish for highest-performing website in the gaming field

Future Scaling, Future Success

Looking to the future, Luxbet and Open Query are working together to scale the Luxbet systems further, using MariaDB's clustering and sharding features and proven application design choices to scale horizontally, and allow Luxbet to concentrate on developing and delivering the next generation of betting applications for their customers.

To engage Open Query for your organisation, contact

+61 (0)7 3103 0809

learn@openquery.com.au

Your databases and online infrastructure. Managed.

Open Query Pty Ltd are a proudly Australian based company with specific expertise in MySQL and MariaDB. Our services include consulting, scalable architecture, proactive remote DBA, system administration, vendor neutral managed services with optional emergency support, mentoring, training, and security and code reviews.



Open Query Pty Ltd

ABN 34 165 589 999

PO Box 327, Arana Hills QLD 4054, Australia

<http://openquery.com.au>