

WHY HOSTING WITH 76DESIGN MAKES SENSE.

Through performance, reliability and security, we have put together a web hosting package that is not only cost effective, but offers peace of mind when choosing web hosting services.

PERFORMANCE

DEDICATED OR LOW TENANCY

We operate a server farm at Montreal-based iWeb Technologies where we commission high-performance, dedicated web servers. We host client websites on their own dedicated servers or employ a low-tenancy hosting policy whereby we limit the hosting on a single server to a maximum of five websites. With this model, we are delivering between 99.98% and 100% uptime, as well as increased performance and security.

OPTIMIZATION

We use distributed Content Delivery Networks (CDN) to serve websites from places around the world, speeding up the transferring of data. CDNs also cache the website and its assets, resulting in decreased latency times. Further, automatic image manipulation at the CDN level delivers approximately 35% increase in performance on mobile devices.

RELIABILITY

UPTIME

The low tenancy policy allows us to deliver between 99.98% and 100% uptime. Further, we use DNS cache for 100% uptime of static content, even during web server outages.

REDUNDANCY

At the hard disk level, our servers are equipped with RAID 1 configurations. This storage scheme provides an exact copy or mirror of the data on two hard drives. Hard disk health is monitored and in the event of a disk failure, all data is recoverable from the working disk, providing fault-tolerant redundancy.

At the server level we rely on our backup recommendation stated above, so that in the event of a complete hard drive failure, a new server can be commissioned and provisioned on short notice and full service can be restored immediately.

At the DNS level we use a services that provide speed and redundancy via data caching and by acting as a distributed Content Delivery Network (CDN). These services also offer additional layers of security such as intrusion detection and blocking.

BACKUPS

We have multiple backup solutions deployed throughout our infrastructure and workflow. In our development environment, we rely on version control to track over 200 active projects using Apache Subversion (SVN) and GIT. We have tracked repositories for all clients dating back over 10 years of revision history. The version control repositories are backed up according to the same backup schedules that we employ for database and media archives.

In production, we employ deployment-provisioning software to ensure that working sites can be restored on short notice to fully functioning condition. We create automatic copies of databases, code, configuration and media on a regular basis, and offer full server backup management with multiple restoration points.

Offsite cloud-based storage solutions and file vaults are available for added reliability.

SECURITY

PROACTIVE SERVER SECURITY MAINTENANCE

At the server level, we apply regular security updates and manual maintenance, ensuring that servers are up to date with most recent security patches. We also block malicious threads to prevent spam, SQL injection and DDOS attacks.

SSL CERTIFICATES

At the application level we use trusted SSL certificates to encrypt all website traffic. We have experience configuring these certificates not only for desktop browsers but we are also familiar with the peculiarities of securing traffic on mobile browsers.

FIREWALL

We use Firewall Rulesets to manage web services and ports on each of our servers. This enables system administrators to grant or deny access to specific services and ports that pose security threats to our network such as FTP and SSH.

ACCESS CONTROL

Responsible management of secure access keys, user passwords, IP access restriction and DNS-level threat blocking, further prevent malicious attacks.