

# Big Data Solutions



Big data applications have big demands—massive storage, powerful computing resources, and on-demand scalability, to name a few. SoftLayer provides the high-performance, highly scalable modular infrastructure that big data requires.

With our platform you can choose from a wide range of servers—from customizable public cloud instances (ready in about five minutes) to enterprise-grade, high-powered, fully-customizable bare metal servers (ready in under two hours).

Our comprehensive storage offering provides options at all price points, and our advanced, high-speed global private network allows you to seamlessly integrate infrastructure residing in our data centers around the world. And to get your big data solution up and running faster, we even offer engineered servers with hardware configurations and OS optimizations specifically for various NoSQL database solutions.

## Use Cases

- Social media analytics
- Call center interaction analytics
- Financial risk modeling and management
- Fraud detection
- Analytics of sensor data

Whether you're building from the ground up, or looking for an out-of-the-box solution, we've got everything you need to meet big data challenges head-on.

## Typical Components

### Database Servers

Dedicated servers with custom configurations give you the ideal performance for your specific database.

### Web Servers

Scale virtual cloud servers on-demand to meet site load requirements during traffic spikes.

### Application Servers

Power applications with robust dedicated servers for fast response times.

### Cache Server

Cache data and content with virtual cloud servers to reduce bandwidth demand, and increase data access.

### Firewall

Protect servers from malicious activity with high-grade firewalls provisioned on demand.

### Storage

Enterprise-grade solutions include Object Storage, SAN, NAS/FTP, iSCSI, EVault, and more .

## Challenges & Solutions

Speeding up a NoSQL deployment for a large data set

Adding a bare metal server with a NoSQL application to an existing deployment will increase overall database performance and distribute compute demands.

Creating a globally diverse NoSQL solution

SoftLayer bare metal servers running NoSQL applications are available at all of our 13 data centers around the world, from Singapore to Seattle. NoSQL servers are provisioned on demand and your NoSQL solution can scale at a moment's notice to fit your NoSQL requirements as they change.

Protecting sensitive information in a social media setting

All SoftLayer hardware firewalls are designed to prevent unauthorized access to your server. Our firewalls are provisioned on demand without service interruptions and are fully managed through the Customer Portal—giving you complete control of your systems' protection settings.

Upgrading to big data storage

Deploy new bare metal servers with larger disk capacity to handle new business requirements.