



Highlights

- Rapidly deploy hybrid cloud storage solutions using x86 servers, IBM® XIV®, IBM FlashSystem® A9000x, third-party appliances and IBM SoftLayer® cloud infrastructure
 - Deliver enterprise-class capabilities with consistent performance to diverse workloads
 - Scale storage management to 69.8 PB¹ usable on-/off-premises under one pane
 - Cut future costs with perpetual unattached licensing across the IBM Spectrum Accelerate™ ecosystem and IBM Spectrum Storage™ Suite
 - Protect data with cost-effective disaster recovery, multi-tenancy, quality of service and security features
 - Consume storage flexibly—own it, lease it or get it as a service on SoftLayer
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IBM Spectrum Accelerate

Ultra-flexible enterprise-class software-defined block storage deployed fast, anywhere

In the face of today's explosion of data, the right storage infrastructure will let you launch, optimize and grow your hybrid cloud with the least cost and effort.

IBM Spectrum Accelerate

IBM Spectrum Accelerate is a software-defined block storage solution designed for rapid deployment across heterogeneous infrastructure for hybrid cloud and delivering consistent service levels to a dynamic workload mix. It is based on proven grid-architecture, enterprise-scale XIV technology in use today on more than 100,000 servers worldwide. IBM Spectrum Accelerate can be used on x86 commodity-choice hardware, pre-installed third-party appliances or on public cloud infrastructure, and is available as a service on SoftLayer infrastructure. It can also be licensed for use on [IBM XIV Storage System](#), [IBM FlashSystem A9000](#) and [IBM FlashSystem A9000R](#)—enhancing your flexibility to meet diverse needs.

IBM Spectrum Accelerate delivers the block storage component of [IBM Spectrum Storage](#), a comprehensive portfolio of flexible and efficient storage capacity and services.

IBM Spectrum Accelerate can help speed and empower your cloud deployment in many ways:

Born for the cloud. Its grid architecture helps deliver predictable, consistent service levels at all times to a dynamic workload mix—with no tuning. It offers extreme ease of use and task automation, reducing administrative overhead, and can scale management to almost 70 petabytes of usable capacity in a single pane.¹



All-inclusive capabilities. It delivers mature enterprise features and management tools at no extra charge, including remote replication, snapshots, multi-tenancy, advanced quality of service, monitoring and security. It offers automation and orchestration through OpenStack, Representational State Transfer (REST) and VMware support.

Ultra-flexible consumption free of hardware lock-in. You can consume storage based on need: buy it, lease it monthly and/or subscribe to it as a cloud service. Owned licenses are hardware-independent and reusable across your IBM Spectrum Accelerate environment and IBM Spectrum Storage Suite, offering optimal investment protection and operational flexibility. Manage your licenses easily online via IBM Passport Advantage®.

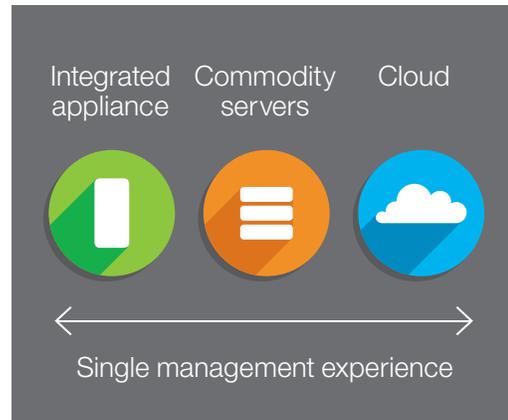
Functioning as a management and licensing ecosystem across heterogeneous hardware, IBM Spectrum Accelerate simplifies your cloud environment and operations.

How IBM Spectrum Accelerate works and excels

IBM Spectrum Accelerate runs as a virtual machine on the VMware vSphere ESXi hypervisor. It converges compute and storage, enabling customer-built, hyper-converged solutions based on proven XIV technology. It enables a server-based storage area network (SAN) to be created from commodity hardware—x86 servers, Ethernet switches, solid-state drives (SSDs) and high-density disk drives—and uses the existing data center network for inter-node and host connectivity. Its unique grid architecture groups virtual nodes with the underlying physical disks and spreads the data evenly across the nodes.

Scaling of nodes is linear and nondisruptive. It delivers hotspot-free performance derived from architectural features that include massive parallelism and optimal data distribution. Its smart use of cache is designed to provide an excellent cache hit

ratio—and it uses flash media, when deployed, as extended cache, boosting performance while sparing the need to manage tiers. It delivers high availability through self-healing, world-class disk rebuild technology and robust quality of service.



IBM Spectrum Accelerate: A powerful software stack running on heterogeneous infrastructure and managed from a single pane

Do it yourself

Use IBM Spectrum Accelerate to help transform industry-standard infrastructure into a simply managed, cost-saving environment for deploying the enterprise-class software-defined storage you need, when you need it.

Deploy fast. Deploy scale-out storage grids in automated environments in minutes rather than days. Built-in management tools and integration with open industry standards help make IBM Spectrum Accelerate a rapid cloud building block. The architecture simplifies work and minimizes training, speeding time to value.

Gain agility. Respond swiftly to needs by choosing to deploy across commodity servers and/or cloud infrastructure such as SoftLayer, with IBM Spectrum Accelerate as the storage component of your self-styled public cloud or purchased as a service.

Realize simplicity. Simplify and standardize storage management across the data center through world-class ease of use and built-in [IBM Hyper-Scale technologies](#). Scale storage management without performance tuning, and with minimal overhead and training.

IBM Spectrum Accelerate is a flexible software-defined block storage solution based on proven enterprise-class technology that can deploy in minutes instead of days and scales as a simply managed ecosystem.

Use cases. Here are some ways you can apply IBM Spectrum Accelerate to benefit your business:

- **Private, public or hybrid cloud.** Include it in your custom-built cloud infrastructure—on- or off-premises and in combination—or as part of a hyper-converged solution to meet diverse needs.
- **Diverse environments.** Deploy test/development or ad-hoc project environments. Mix online transaction processing and new application workloads. Deliver enterprise capabilities to different tiers.

- **Disaster recovery.** Use the cloud for business continuity, mirroring to/from XIV Gen3, XIV Gen2 or IBM Spectrum Accelerate. Perform backup to server-based, on-premises solutions using the powerful snapshot technology.
- **Remote or branch office.** Provide high-availability storage to your smaller or distributed offices using existing hardware.

Get it as a service

Subscribe to IBM Spectrum Accelerate as a service on SoftLayer cloud—IBM Spectrum Accelerate on Cloud—to enjoy the same enterprise-class benefits of IBM Spectrum Accelerate without hardware acquisition or upkeep.

Use cases. Leverage easy to use, advanced cloud storage services to:

- **Deliver high predictability and availability to your public cloud workloads.** Give your workloads the storage they require—and manage, automate and orchestrate it with ease.
- **Implement disaster-recovery capabilities without building a disaster-recovery site.** Mirror to XIV Gen3, XIV Gen2 or IBM Spectrum Accelerate in the data center, with your primary data storage at either end.

IBM offers capacity- and performance-oriented configurations, billed at a flat monthly rate, with software, advanced features, hardware and unlimited traffic bundled within.

Why IBM?

Innovative technology, open standards, excellent performance, and a broad portfolio of proven storage software and hardware solutions offerings—all backed by recognized industry leadership—are just a few of the reasons to consider storage solutions from IBM. In addition, IBM delivers some of the best storage products, technologies, services and solutions in the industry without the complexity of dealing with different hardware and software vendors.

IBM Spectrum Accelerate at a glance

Recommended specifications for do-it-yourself deployments

- 3 to 15 x86 servers, each with internal disk drives
- Each server, using VMware vSphere ESXi v5.5, includes IBM Spectrum Accelerate as a virtual machine (VM) configured as follows:
 - 6 non-virtualized physical cores
 - 48 GB RAM or more. Note: Additional RAM must be allocated for the ESXi server
 - 12 disk drives of up to 6 TB—all the same size
 - 1 x SSD of up to 800 GB (as cache)
 - 4 x 10 Gigabit Ethernet ports
- Each server is a converged infrastructure supporting the VMs of IBM Spectrum Accelerate and other applications
- High-density disk drives of any kind, various SSD devices and externally attached hard drives are supported

As a service on SoftLayer—IBM Spectrum Accelerate on Cloud

- From 50 TB usable; scales in 20 TB usable increments up to 250 TB usable per virtual array*
- Runs on SoftLayer infrastructure
- Performance- and capacity-oriented configurations
- Support: Software: 24x7, Levels 1 and 2; Hardware: per published SoftLayer service level agreements



Take the next step. [Click here.](#)
➔ See full specifications [here.](#)

For more information

To learn more about IBM Spectrum Accelerate, please contact your IBM representative or IBM Business Partner, or visit the following website: ibm.com/spectrumstorage

Additionally, IBM Global Financing provides numerous payment options to help you acquire the technology you need to grow your business. We provide full lifecycle management of IT products and services, from acquisition to disposition. For more information, visit: ibm.com/financing



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* 1 terabyte (TB) is equal to 2 to the 40th power, or 1,099,511,627,776 bytes.

¹ 63.48 Tebibytes (TiB) usable.



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