The Challenge of Large, Unstructured Data

Data-generating machines create more than 1.7 megabytes of data for every human every second. Traditional infrastructure wasn't built to scale to today's levels of machine-generated data. The result? A sprawl of separately managed storage arrays, increasing costs and operational risks to enterprises.

While public cloud eliminates infrastructure management, moving large datasets is not always an option because of Internet bandwidth constraints, transfer times and security concerns.

The Solution of Zero-Touch Infrastructure

Designed for hassle-free, high-capacity data storage, Igneous Storage delivers True Cloud for Local Data. Powered by advanced, cloud-native services, Igneous Storage provides an automated, API-driven, and scalable object storage service similar to those offered by public cloud providers like Amazon Web Services, Microsoft Azure, and Google Cloud Platform.

Unlike with public cloud, you pay no data access fees and your data stays protected behind your firewall. Igneous handles all updates, monitoring, management and repairs. Start with 212TB and scale as needed. Our horizontally scalable object store withstands hardware failures and utilizes advanced erasure coding so your data is protected and resilient.

What Does Igneous Storage Mean for You?

- Fast, secure access
- Zero touch
- Usage metrics
- Automated updates
- LAN-speed data
How Does Igneous Storage Work?

Our zero-touch appliances go behind your firewall in your datacenter. With Igneous Storage, users interact with the data at LAN speed using the de facto, industry-standard S3 API. Igneous performs scheduled hardware maintenance, and failures occur in place, self-heal and have little or no impact.

Igneous handles all system updates, health management, and proactive care for Igneous Hybrid Storage Cloud using techniques similar to those in hyperscale public clouds. And no matter how large your datasets grow, you never have anything to monitor, manage or update.

Your Igneous Storage subscription includes:

- **Effortless storage**: Our remote, cloud-based management offers Zero-Touch Infrastructure™. We automatically set up, provision and scale your storage onsite; check performance; monitor usage; detect and troubleshoot problems; and regularly update our appliances.

- **Automated troubleshooting**: Our RatioPerfect™ architecture restricts failures to small nano-server domains. Igneous repairs failed components and regularly replaces everything as part of our Capacity Forever services, included with your subscription.

- **Capacity metrics**: Real-time dashboard visibility into all capacity-related metrics, including usable and consumed storage, performance metrics and overall system health. With our activity monitor, you can view system upgrades, configuration changes and the administrative log.

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**Features**

**Protocol support:**
- S3 API
- FTP
- Read-only NFS
- NFS and CIFS (using gateway)

**Appliances:**
- **dataBox**: 4U x 60 Drives, used for capacity storage
- **dataRouter**: stateless 1U server, used for protocol endpoints

**Minimum Requirements:**
- 1 dataBox, 2 dataRouters

**Minimum Usable Capacity:**
- 212TB (6TB drives)

**Ethernet Connectivity:**
- **dataBox**: 4 x 10GbE (minimum of 2)
- **dataRouter**: 2 x 10GbE

**Power Requirements:**
- **dataBox**: 1465W (max), 865W (typical)
- **dataRouter**: 500W (max)

**Dimensions (dataBox):**
- Height: 4U
- Width: 19" IEC rack-compliant (44.7cm)
- Depth: 35" (86.4cm)
- Weight: 235lbs (106.8kg) loaded, 125lbs (56.8kg) empty

**Dimensions (dataRouter):**
- Height: 1U
- Width: 19" IEC rack-compliant (44.7cm)
- Depth: 25.6" (65cm)
- Weight: 30.8lbs (14kg)

**Fans:**
- **dataBox**: 3+1 hot swap
- **dataRouter**: 2 hot swap

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**About Igneous Systems**

Igneous Systems is a Seattle-based, venture-backed company that designed the industry’s first secondary storage to handle massive file systems. Our hybrid cloud solutions offer the best of both worlds — the on-premises data of enterprise datacenters and the agility of public cloud. To learn more, visit [www.igneous.io](http://www.igneous.io).