Storage

Block Storage

Storage for Large Data Processing and DB Workload

Block Storage stores data in fixed-size blocks of pre-determined arrays and assigns directly to servers. This highly available storage service is suitable for application environments that require high capacity data, such as database and email servers. High performance storage is available depending on the required level of performance. Backup policy with redundancy and failure recovery system enable reliable service without any data losses.

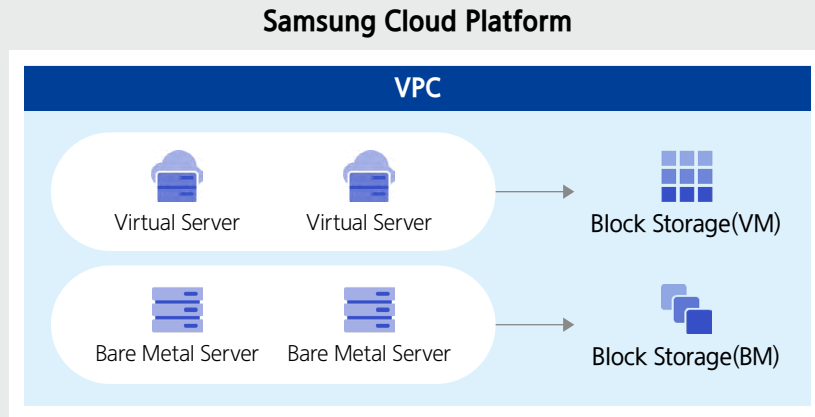|	
Large Volume Storage	The basic OS space provides 100 GB of volume. Virtual Server can be created or expanded online up to 168TB, and Bare Metal Server can scale in large capacities without volume limitations.
Full SSD-based High Performance IOPS	Block Storage includes redundant controller and disk array RAID to ensure high durability and availability. For mission-critical application workload that requires short response time and high IOPS, optimized high-performance SSD-type storage is also provided.
Snapshot-based Backup	Block storage offers image snapshot for OS and data area of VM and LUN(Logical Unit Number) snapshot function of BM. Recovery to a particular time using previously-created snapshots is possible in case of change or deletion of data.
DR Replication of Critical Data	DR replication replicates the original Block Storage(BM) to another region of Samsung Cloud Platform. This allows the DR storage to provide data in situations where the original storage becomes unavailable such as a system failure or a natural disaster. (Additional network charges for data replication)

Service Architecture

Samsung Cloud Platform

Key Features

- **User volume creation**
  - Create/connect/expand/delete user volume on created VM easily
  - Set types and scales of assigned block storage
  - 100GB in the basic OS space

- **Encryption by volume**
  - Protect customer's valuable information safely

- **Multi-Attach function**
  - Able to access files in the same space from multiple servers when using cluster files or file sharing systems

- **Storage management**
  - Storage management : Disk/storage usage management, storage change analysis and review, etc.
  - Availability management : Storage utilization rate management, etc.

- **Storage monitoring**
  - Monitor storage performance (read/write IO), estimate usage and view bills
  - Set notifications for storage shortages (e.g. a 'Warning' status notification when 80% of assigned storage is in use and 'Critical' when 90% is in use)

Pricing

- **Billing**
  - Charged by the usable storage (usable storage (GB) x unit price)
  - Monthly billing based on the combined number of days using storage

- **Metering standard**
  - Usable storage : Storage requested by the user on the screen
  - Discount rates applied according to the usage

FOR MORE INFORMATION

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