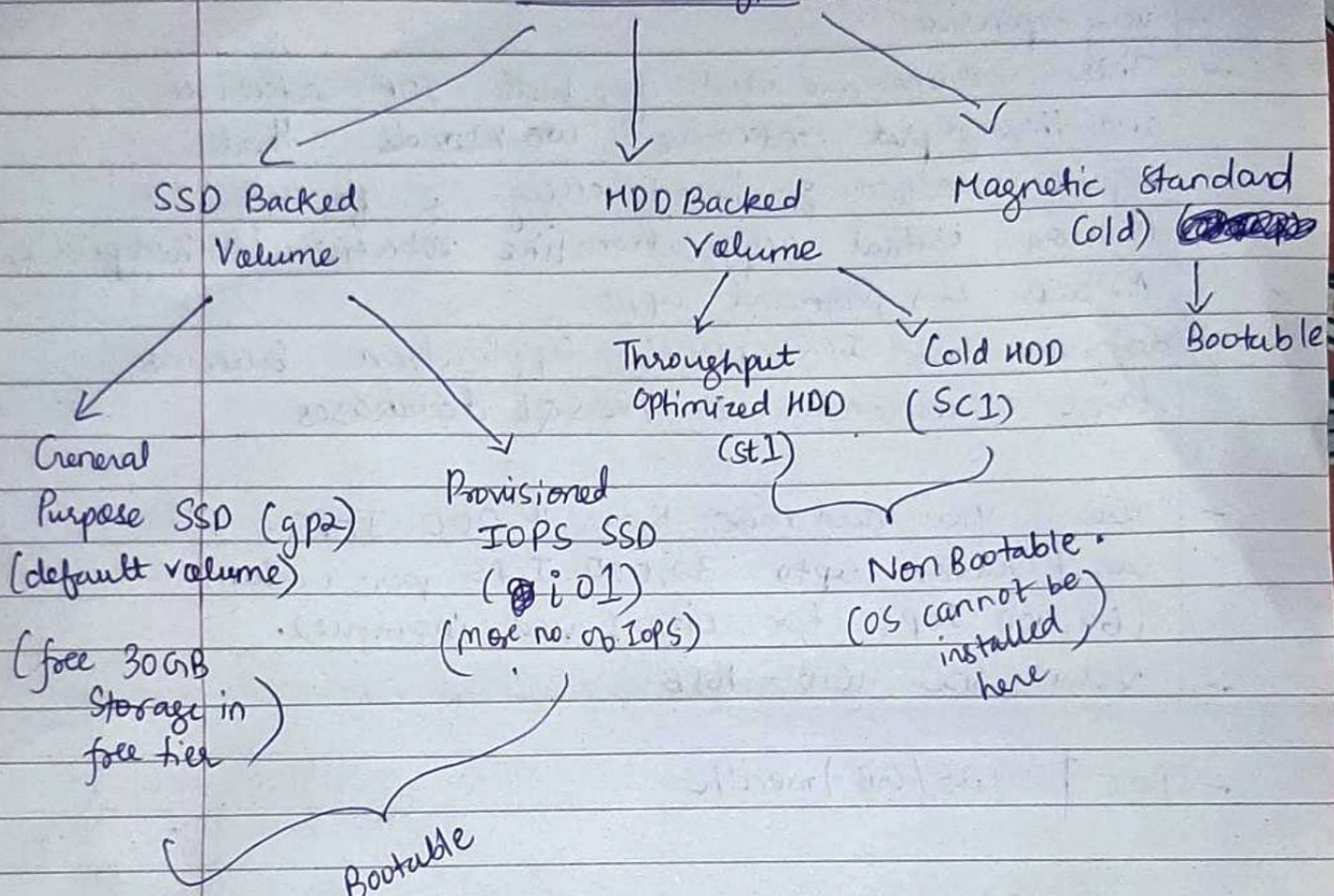
IOPS - Input Output operations per second.
Throughput - MB/S

EBS Volume Types.



General Purpose SSD :- default EBS volume type for EC2
- backed by SSD's
- balances both price & performance.
- Ratio of 3 IOPS/GB with upto 10,000 IOPS
- Boot volume having low latency (in ms).
- OS can be installed.
- Volume size 1GB - 16TB
- Price - ~~$0 to $~~ $0.10 GB/mo

(different price for different region).

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Provisioned IOPS SSD (io1)

- very expensive
- These volumes are ideal for both IOPS intensive and throughput intensive workloads that require extremely low latency or for mission critical applications like robotics in hospitals, AI apps etc, payment apps.
- designed for I/O intensive applications such as large relational or NOSQL databases.

- use if you need more than 10,000 IOPS.
- can provision upto 32,000 IOPS per volume - (64,000 IOPS for nitro based instance).
- Volume size 4GB - 16TB.

- Price $0.125/GB/month

* Throughput optimized HDD (st1).

- ST1 is backed by hard disk drives & is ideal for frequently accessed, throughput intensive workloads with large databases.

- ST1 volumes deliver performance in terms of throughput, measured in mb/s
- big data, Data warehouse, log processing.
- It cannot be a boot volume.
- can provisioned upto 500 IOPS per volume
- Volume size = 500GB - 16 TB
- Price = $0.045 GB/month.

Cold HDD (sc1).

- SC1 is also backed by HDD and provides the lowest cost per GB of all EBS volume types.
- lowest cost storage for infrequent access workloads
- used in file servies
- cannot be a boot volume.
- Can provisioned upto 250 IOPS per volume
- volume size - 500 GB to 16 TB
- Price - $0.025 / GB / month

Magnetic standard.

- lowest cost per GB of all EBS volume type that is bootable.
- ideal for workloads where data is accessed infrequently, and applications where lowest storage cost is imp.
- price = $0.05 per GB/month
- Volume size 1 GB to 1 TB
- Max IOPS / volume - 40-200.