

- **S3 Types :::** Six Types are there . S3 standard , S3 standard Infrequent Access , S3 one zone IA , S3 Intelligent tiering , S3 Glacier , S3 glacier deep archive .
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- S3 standard is fastest and most costly and fastest (Micro seconds). Accessible on daily basis . It is only for frequent access data . Data storage class is quite expensive and retrieval is cheap . Durability is 11 times 9 means 99.999999999999 . Chances of data being corrupted is 1/10000000000 . Availability is 99.99 percent uptime in a year . If availability is uncompromised then AWS will pay you . Encryption is possible.
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- S3 standard IA is second most costly can be used to save data to be accessed less frequently like once or two or four in a month . Charge of saving is very less comparatively but retrieval is chargeable . Storage cost is half as compared to S3 standard but retrieval charge is almost double . Durability is 11 times 9 means 99.999999999999 . Chances of data being corrupted is 1/10000000000 . Speed of retrieval is same as S3 standard . Putting data once and deleting it again will cost charges for one month . Encryption is possible .

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- S3 one zone IA ::: To put an unimportant data in one zone only . All others put in 3 AZs .
Cheaper than Standard IA . The data that you can bear to loose can be stored over here .
Secondary backup copy of on premise data and easily regrettable data . Durability is 11 time 9 . Availability is 99.5 percent .
- S3 intelligent Tearing :: Life cycle management moves data like If I don't access in 30 days move it to IA , Now if I don't access after 90 days move it to Glacier , If I don't access after 365 days move it to glacier deep dive . But once data goes to deep dive it have to be taken back to s3 standard if we need to access it frequently now . So Intelligent tearing moves data with in different types intelligently .
Durability is 11 times 9 means 99.999999999999 . Chances of data being corrupted is 1/10000000000 . It can use two storages based upon your decision . Migrating between two storages have very very less cost . Data less than size 128 KB will not be moved in IA even after 1 year if not accessed .
Durability is 99.9 not 99.99 . If you have the knowledge which data is frequent and which is costly then use IA only not this .
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- S3 glacier ::: You can choose what should be the access time of your data minutes , hours etc. Charges will be according to that . 90 days is minimum time to move to glacier . Data is copied in 3 AZs . In Free tear account 10 GB is the limit to store and access .
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- S3 glacier deep archive is used to store very highly infrequent usable data like not even once in a year . Music companies can use it for saving very old song A policy like after 30 days move to s3 IA and then after 90 days move to glacier and then after 365 days delete it . This is called life cycle management . Retrieval time is in hour . Cheaper 75% than glacier . Availability is 99.9 , News channels can backup their daily storage .Put the data for which you are sure that I will not access at any cost .