



MCA SEM-III

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CLOUD TECHNOLOGY – Elastic Block Store

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Elastic Block Store (EBS)

EBS

EBS is the combination of Object Storage and Block Storage.

Block Storage

- File is splitted that means data is stored in the form of blocks of same size.
- The cloud applications or service which need a high performance are deployed by the use of Block store.
- To increase capacity more nodes are added.
- Suitable for applications that require high IOPS (input output per second).
- Preferred for high transaction of data.
- Quick performance.

Object Storage

- When a heavy data is to be stored it is stored in Object storage.
- Ex.: Movies stored in OTT platform.
- Ex.: Daily Transactions in Banking

Elastic Block Store (EBS)

EBS

Amazon modified the Block storage and gave name Amazon Block Store.

- This is combined with EC2 and it gives High Performance EC2.
- Windows server, Image, Working on image. Space is needed. For this EBS is used. For high performance IOPS Block storage used.
- This EBS is known as Amazon S3 and Amazon Glacier and Amazon Elastic File Store (EFS).

Elastic Block Store (EBS)

EBS

Elastic File Service:

- Used when software is used as a Service Application.
- No High storage or moderate storage is needed only low storage.
- Working on Application.

Amazon S3:

- Is included in an object.
- Used for High storage.

Amazon EBS:

- Used for High Performance.
- Used for Throughput.
- SSD is a part of EBS.

Elastic Block Store (EBS)

References

1. <https://aws.amazon.com/ebs/>
2. <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AmazonEBS.html>

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