

15CSE337

Cloud Computing and Services

AWS S3

Dr Ganesh Neelakanta Iyer

Associate Professor, Dept of Computer Science and Engg

Amrita Vishwa Vidyapeetham, Coimbatore

AWS S3

- Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance
- This means customers of all sizes and industries can use it to store and protect any amount of data for a range of use cases, such as websites, mobile applications, backup and restore, archive, enterprise applications, IoT devices, and big data analytics
- Amazon S3 provides easy-to-use management features so you can organize your data and configure finely-tuned access controls to meet your specific business, organizational, and compliance requirements

Benefits

Industry-leading performance, scalability, availability, and durability

- Scale your storage resources up and down to meet fluctuating demands, without upfront investments or resource procurement cycles. Amazon S3 is designed for 99.999999999% (11 9's) of data durability because it automatically creates and stores copies of all S3 objects across multiple systems

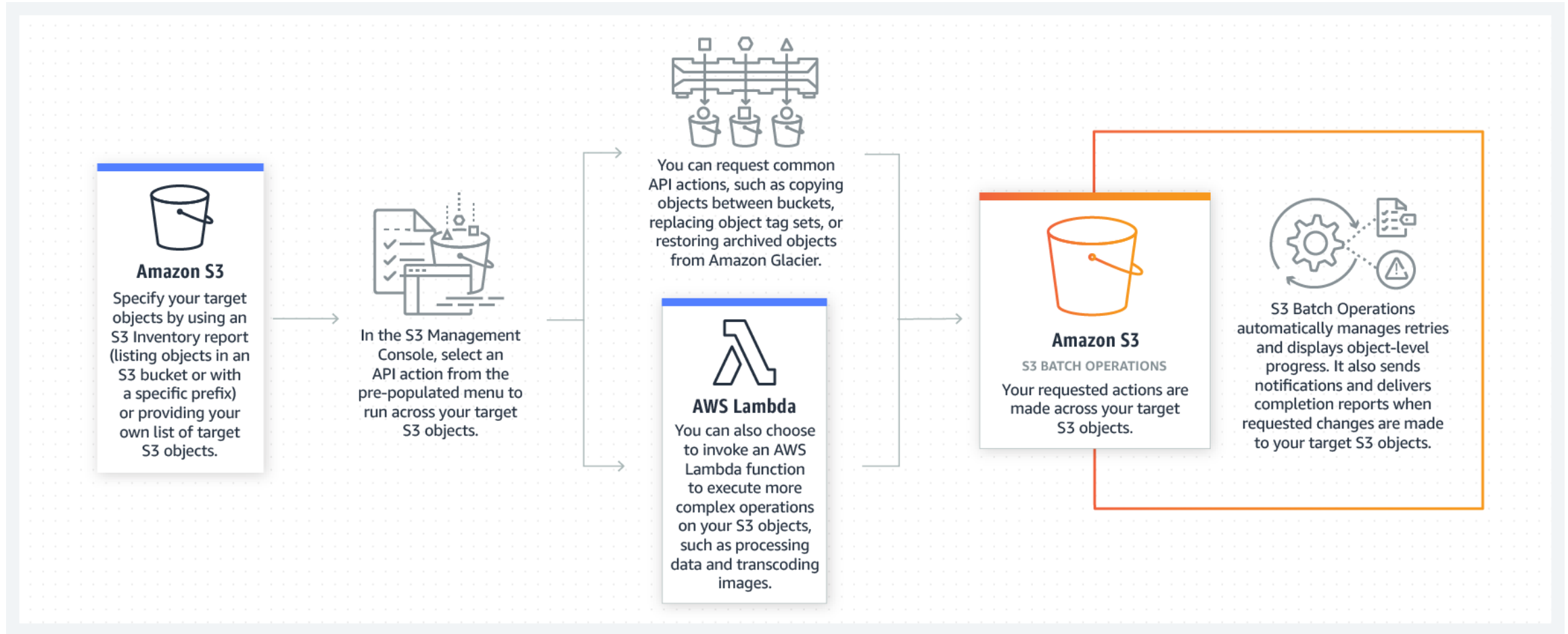
Wide range of cost-effective storage classes

- Save costs without sacrificing performance by storing data across the S3 Storage Classes, which support different data access levels at corresponding rates

Unmatched security, compliance, and audit capabilities

- Store your data in Amazon S3 and secure it from unauthorized access with encryption features and access management tools.

How it works?



Usecases

Backup and
restore

Disaster
recovery

Archive

Data lakes
and big data
analytics

Hybrid cloud
storage

Cloud-native
application
data

Store and retrieve a file

- <https://aws.amazon.com/getting-started/tutorials/backup-files-to-amazon-s3/?trk=s3-gs>

Upload files with Node and React to AWS S3 in 3 steps



- <https://medium.com/@fabianopb/upload-files-with-node-and-react-to-aws-s3-in-3-steps-fdaa8581f2bd>

Thank you!

Dr Ganesh Neelakanta Iyer

ni_amrita@cb.amrita.edu

ganesh.vigneswara@gmail.com



Office Hours

– Tuesday 4-445
PM @ My office