

# Build cost-optimized storage with Amazon S3

**Will Cavin**

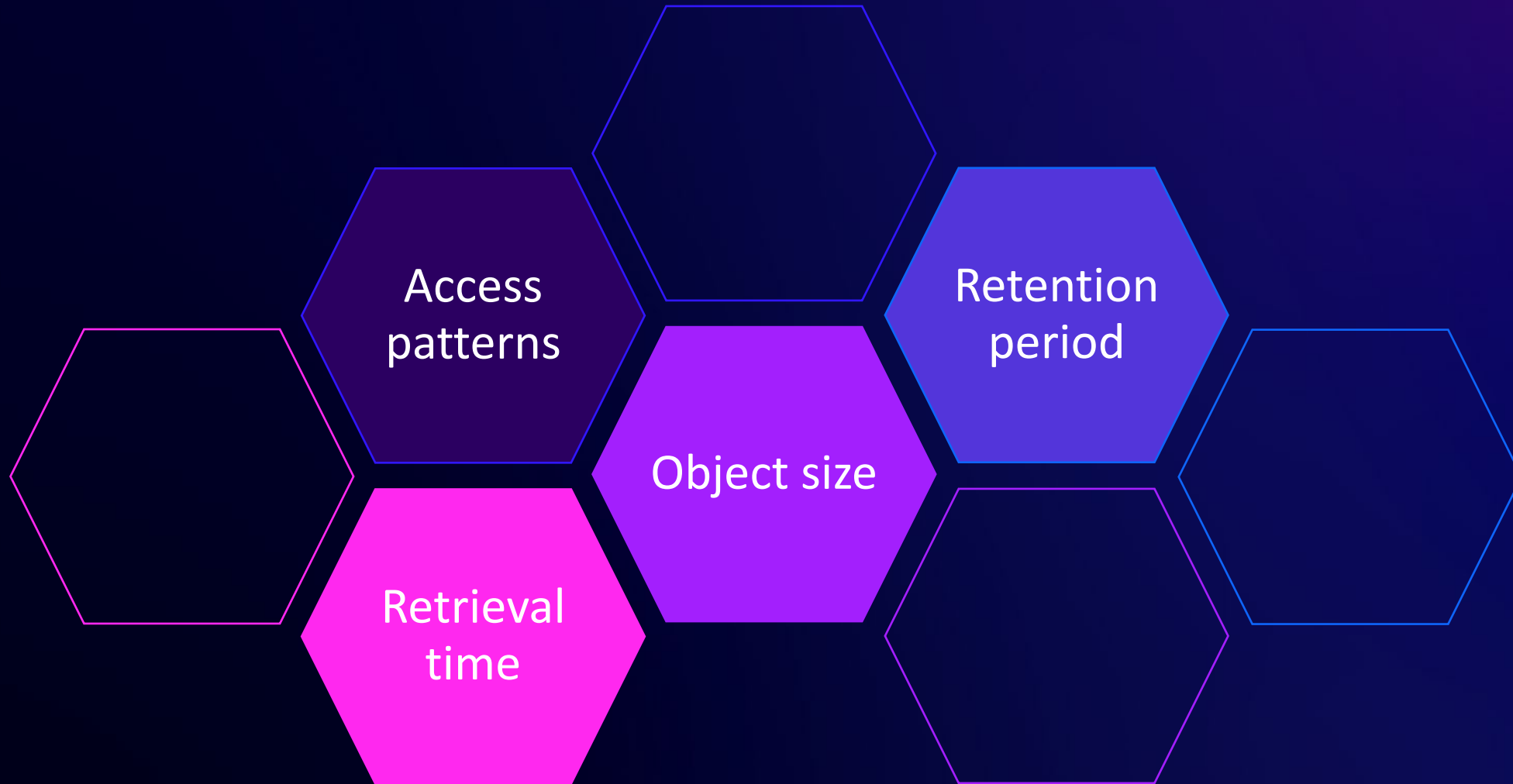
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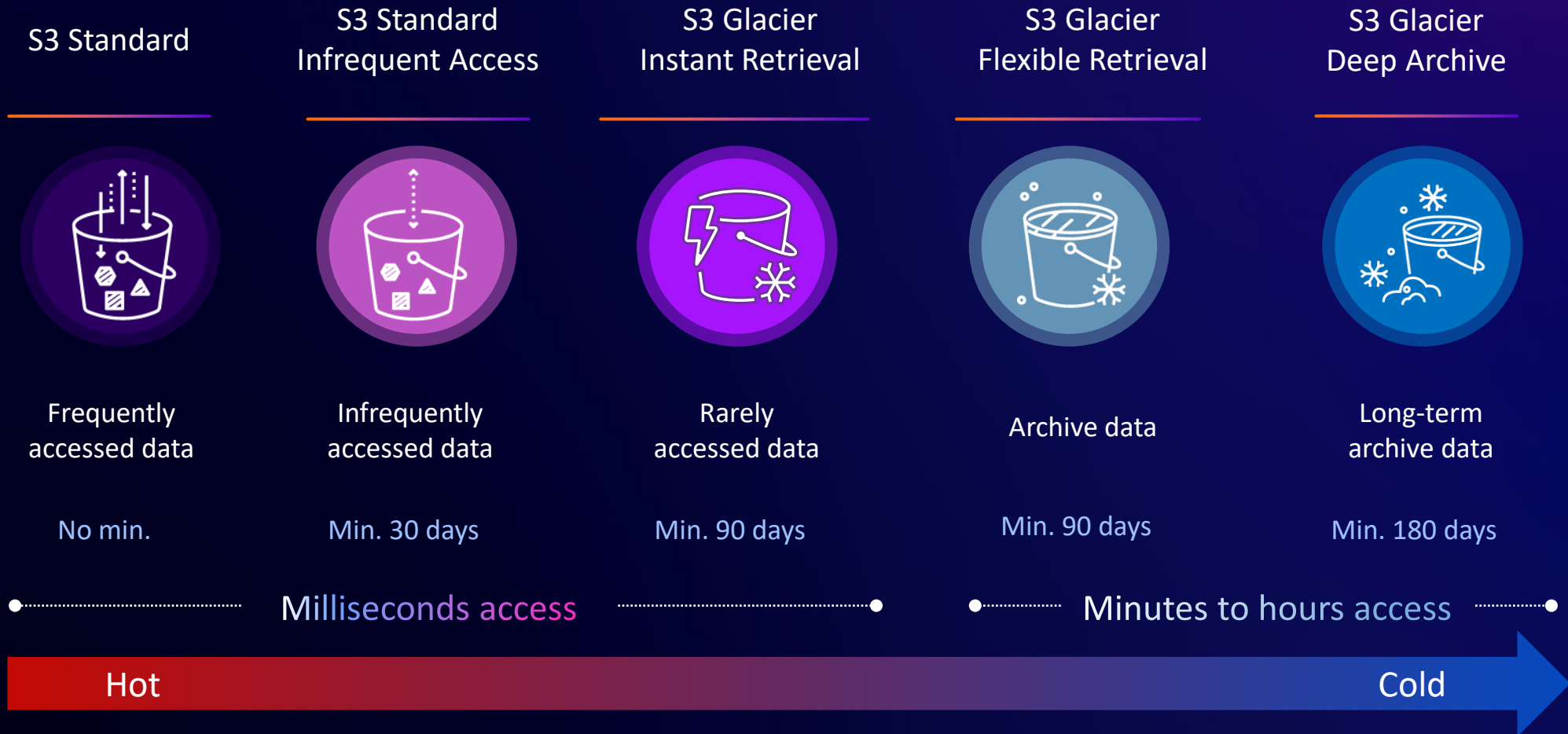


# Workload-based cost optimization



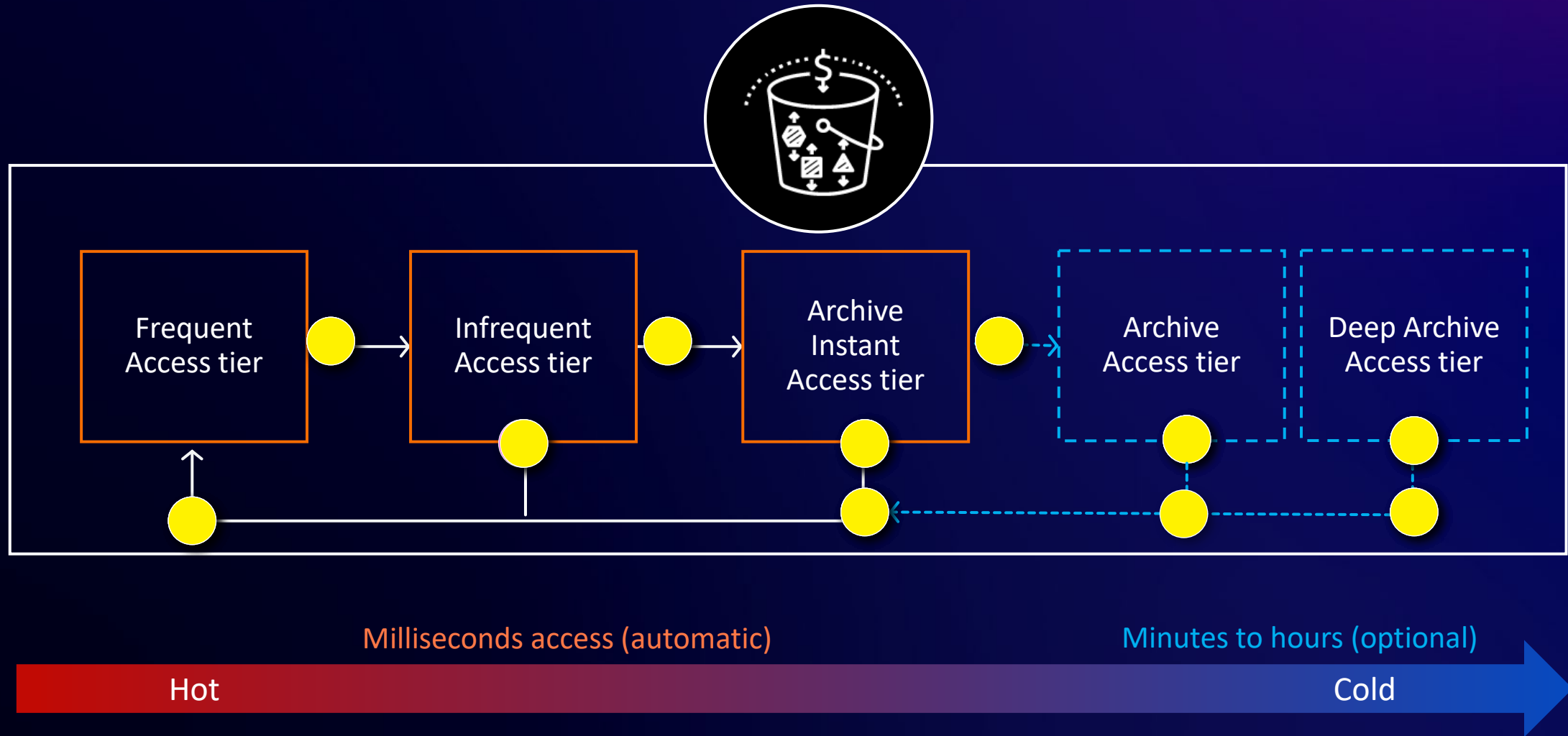


# Storage class choice matters at scale





# Automatic cost optimization with S3 Intelligent-Tiering





# \$4 billion in savings





# Amazon S3 Lifecycle helps optimize storage costs



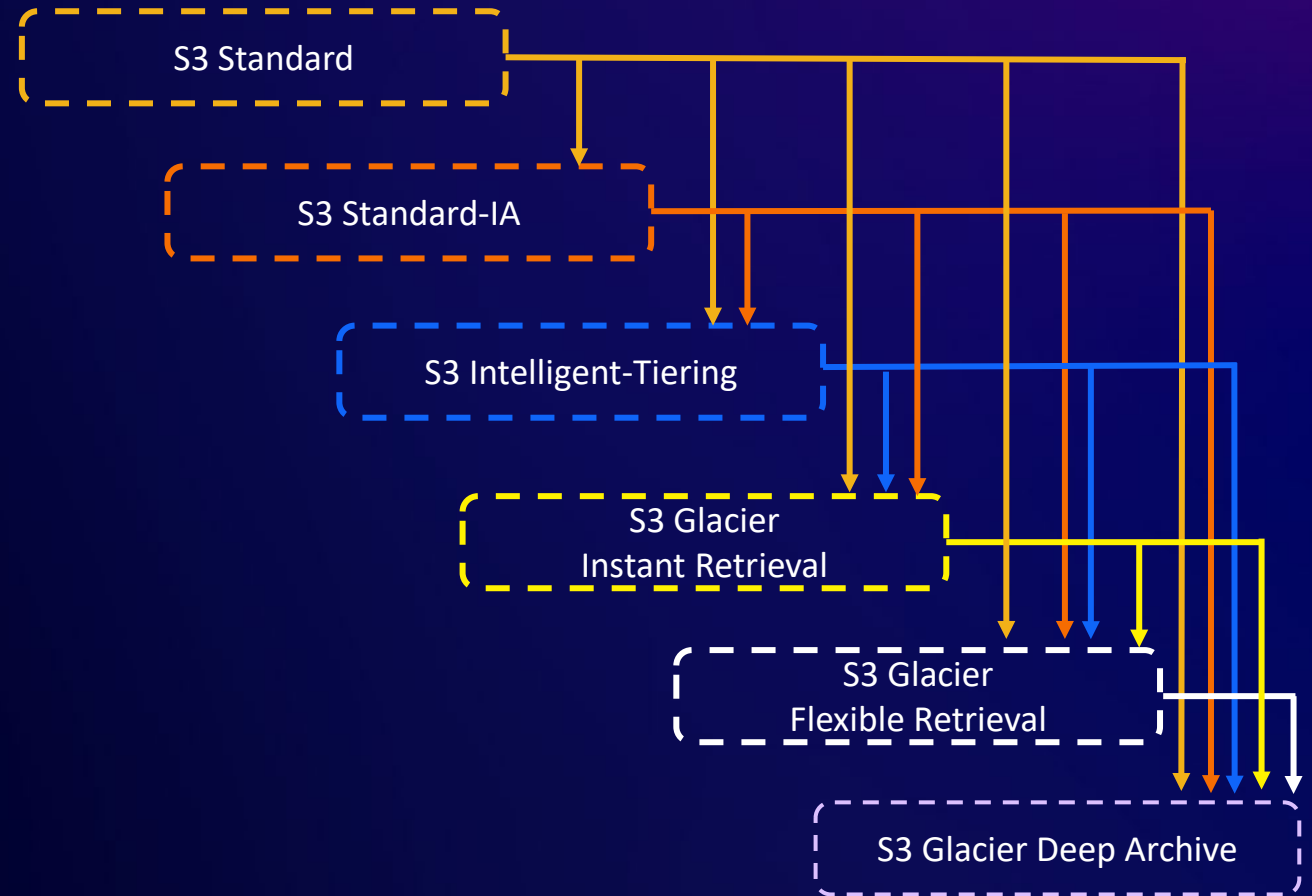
Transition actions



Expiration actions



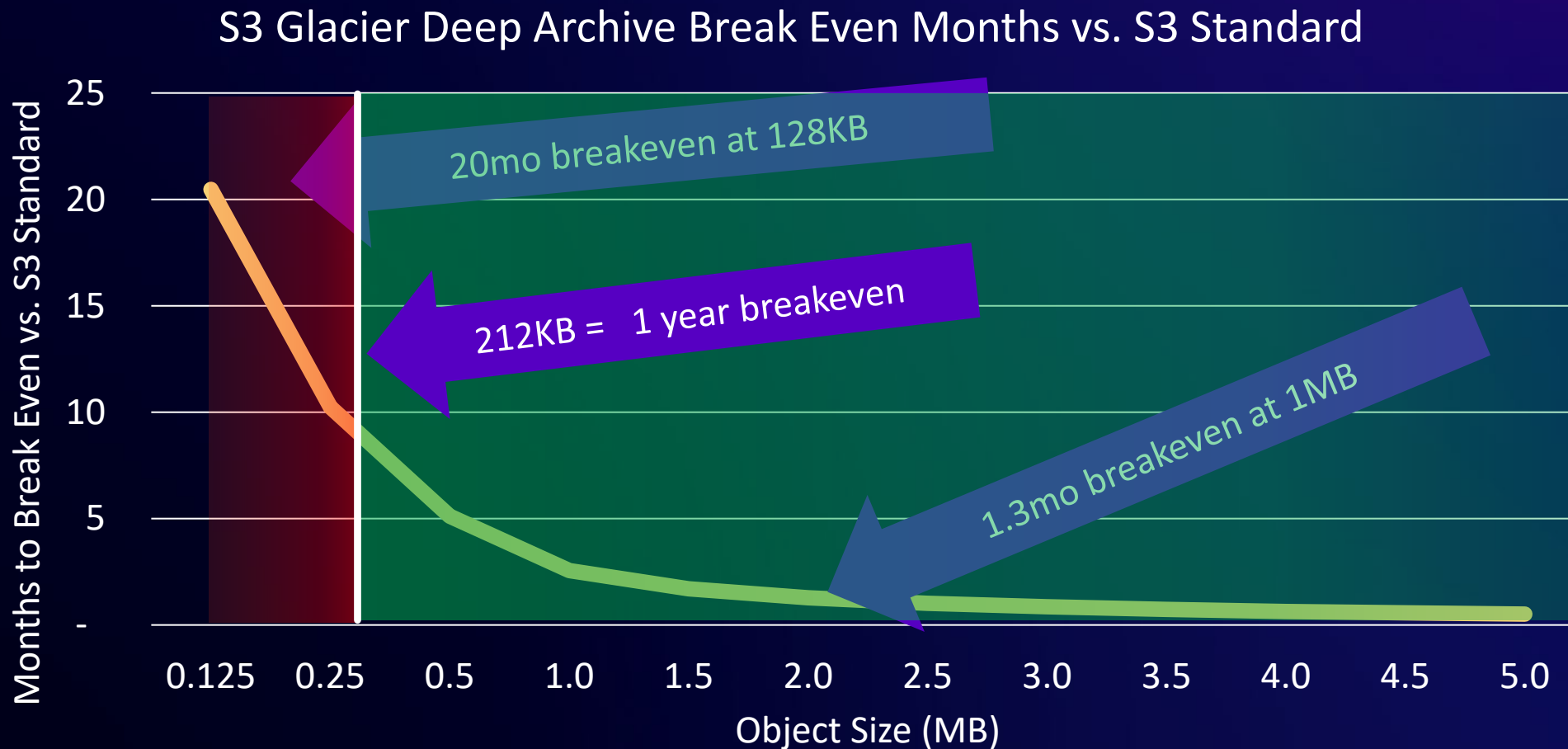
Action filters





# Retention time vs. one-time lifecycle costs

Breakeven = "Lifecycle API Costs" / ("S3 Std \$ per mo" – "GDA \$ per mo")



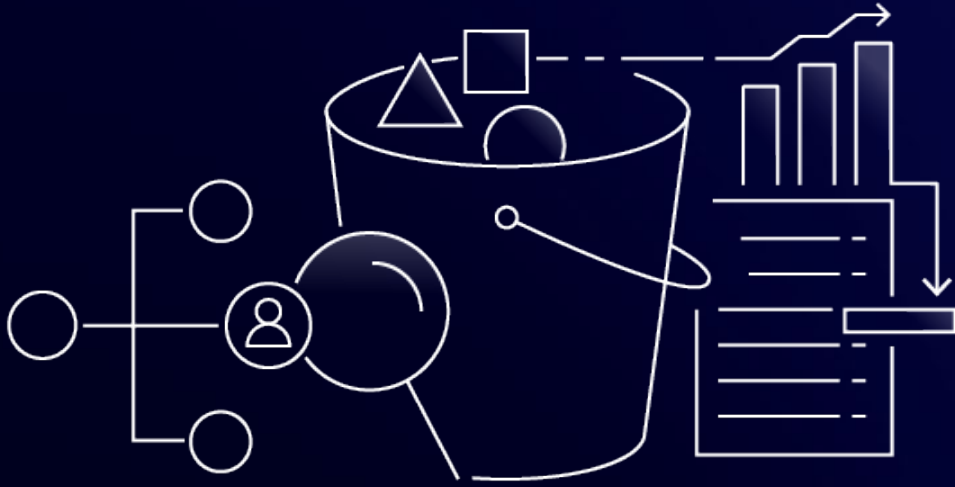
\*All numbers are for US-east( N. Virginia) region.



If you can't see it,  
you can't change it



# Analyze your storage with S3 Storage Lens



Free and paid versions available

1. Interactive dashboard experience in the Amazon S3 console  
– **free to all** customers
2. Organization-wide visibility
3. Drill down by Region, storage class, bucket, and prefix
4. Multiple ways to access S3 Storage Lens data
5. Granular usage and activity metrics



# Find the answers with S3 Storage Lens



**28 free metrics**  
for instant visibility

- Are we using any of the lower-cost Amazon S3 storage classes?
- Do we have any incomplete multipart uploads > 7 days?
- How much of my storage is comprised of non-current versions of objects?



**35 advanced metrics** to  
optimize cost

- Which of my buckets are not accessed frequently?
- Which buckets have dynamic access patterns?
- Which buckets don't have a lifecycle policy?



# Thank you!

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