S3 Intelligent Tiering

S3 Intelligent-Tiering is a storage class that is designed to optimize storage costs automatically based on your access patterns. Here are some best practices and recommendations:

1. **Understand Your Data Access Patterns:**

   Before implementing S3 Intelligent-Tiering, it's crucial to have a clear understanding of your data access patterns. This includes knowing which objects are frequently accessed, which are rarely accessed, and which might not be accessed at all.

2. **Leverage S3 Lifecycle Policies:**

   Use S3 Lifecycle policies in conjunction with Intelligent-Tiering to further optimize storage costs. For example, you can transition objects to other storage classes or delete them based on specific criteria.

3. **Use S3 Storage Class Analysis:**

   Enable S3 Storage Class Analysis to monitor and analyze access patterns. This tool provides insights into which objects are being frequently accessed and which can be moved to lower-cost storage tiers. More info here.

4. **Combine with S3 Object Tagging:**

   Tag your objects to provide additional context about their usage. This can be useful for making more informed decisions about which objects should be moved to which storage class.

5. **Consider Long-term Object Storage:**

   For objects that are infrequently accessed, consider using S3 Glacier or S3 Glacier Deep Archive. S3 Intelligent-Tiering is optimized for objects that are accessed at least once a month, so for very rarely accessed data, Glacier may be more cost-effective.

6. **Evaluate S3 Standard and S3 Intelligent-Tiering:**

   For data with predictable access patterns, consider using S3 Standard for frequently accessed data and S3 Intelligent-Tiering for data with less predictable access patterns.

7. **Monitor and Adjust as Needed:**

   Regularly monitor the access patterns and costs associated with your objects. Use the S3 Storage Class Analysis and S3 Inventory features to get insights into your storage usage.

8. **Consider Multi-Region Replication:**

   If you have data that requires high availability and disaster recovery, consider using S3 Cross-Region Replication to replicate objects to a different AWS region.

9. **Testing and Validation:**

   Consider conducting tests with sample data before implementing S3 Intelligent-Tiering in a production environment. This will help you understand how your specific data behaves in this storage class.

10. **Cost Monitoring and Budgeting:**

    Set up AWS Cost Explorer and Budgets to monitor your storage costs. This will help you stay within budget and make adjustments if necessary.

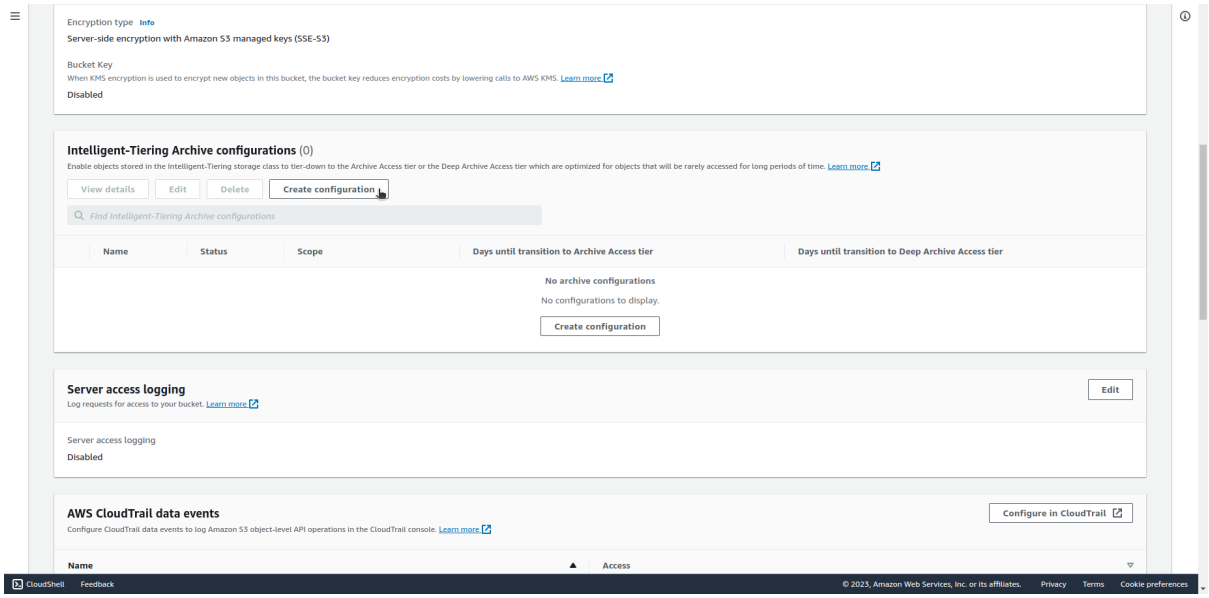
11. **Review Your Configuration Periodically:**

    Regularly review your storage configuration and adjust it based on changing access patterns and business requirements.

Remember that the effectiveness of S3 Intelligent-Tiering depends on your specific use case and data access patterns. Regular monitoring and adjustments are key to optimizing costs while maintaining performance and availability.

Instructions

1. Log in to the AWS Management Console and navigate to the ***S3 service***.
2. In the S3 dashboard, click on the name of the bucket You want to enable Intelligent-Tiering on.
3. Select ***Properties*** Tab.
4. Under the ***Intelligent-Tiering Archive*** configurations click on ***Create configuration***.



5. Enter a configuration name, ahoose a configuration scope, add prefix (optional), adjust other setting as needed. Click on ***Create*** at the bottom.