**S3 External Stage for Data Ingestion to Snowflake**

Reference:

<https://docs.snowflake.com/en/user-guide/data-load-s3-config.html>

Implementation of Option1:

“Configure a storage integration object to delegate authentication responsibility for external cloud storage to a Snowflake identity and access management (IAM) entity.

**Note**

We highly recommend this option, which avoids the need to supply AWS IAM credentials when creating stages or loading data.”

* [Step 1: Configure Access Permissions for the S3 Bucket](https://docs.snowflake.com/en/user-guide/data-load-s3-config.html#step-1-configure-access-permissions-for-the-s3-bucket)
  + [AWS Access Control Requirements](https://docs.snowflake.com/en/user-guide/data-load-s3-config.html#aws-access-control-requirements)

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* + [Creating an IAM Policy](https://docs.snowflake.com/en/user-guide/data-load-s3-config.html#creating-an-iam-policy)

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* [Step 2: Create the IAM Role in AWS](https://docs.snowflake.com/en/user-guide/data-load-s3-config.html#step-2-create-the-iam-role-in-aws)

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* [Step 3: Create a Cloud Storage Integration in Snowflake](https://docs.snowflake.com/en/user-guide/data-load-s3-config.html#step-3-create-a-cloud-storage-integration-in-snowflake)

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* [Step 4: Retrieve the AWS IAM User for your Snowflake Account](https://docs.snowflake.com/en/user-guide/data-load-s3-config.html#step-4-retrieve-the-aws-iam-user-for-your-snowflake-account)

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* [Step 5: Grant the IAM User Permissions to Access Bucket Objects](https://docs.snowflake.com/en/user-guide/data-load-s3-config.html#step-5-grant-the-iam-user-permissions-to-access-bucket-objects)

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* [Step 6: Create an External Stage](https://docs.snowflake.com/en/user-guide/data-load-s3-config.html#step-6-create-an-external-stage)

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Step 7: Copying Data from an S3 Stage

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