- Don't confuse staging area of snowflake with data warehouse staging area.
- Staging area in snowflake is a blob storage area where you load all your raw files before loading them into snowflake database.

Which blob storage areas you can use ?







SNOWFLAKE EXTERNAL STAGING AREAS

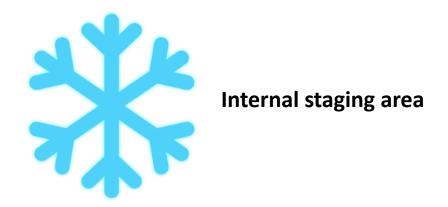
What if I don't have subscription to these cloud storage areas?







What if I don't have subscription to these cloud storage areas?



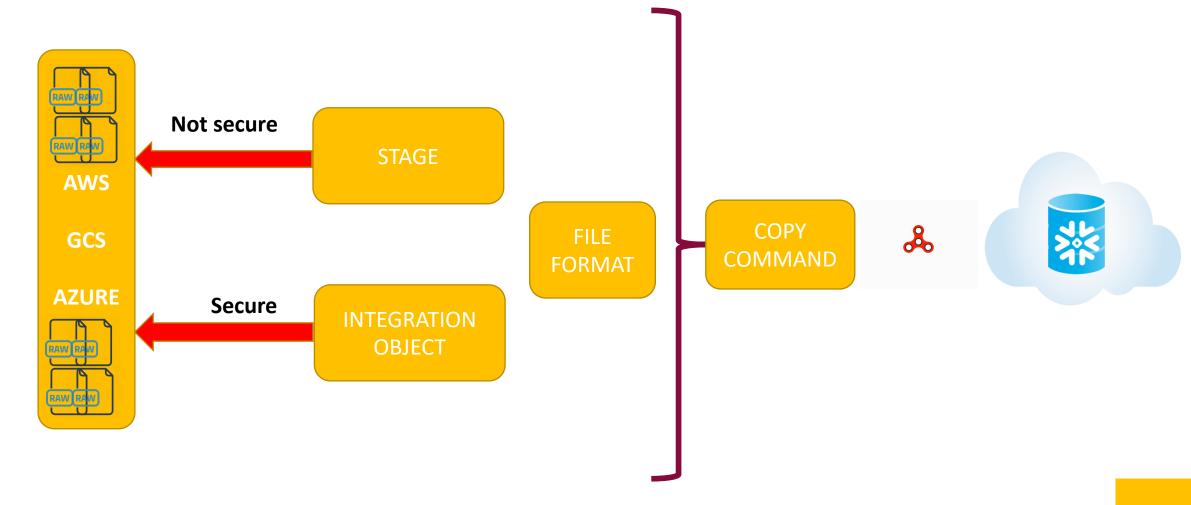
Remember this is also a blob storage, which is managed by snowflake.

- Snowflake stage is not data warehouse stages.
- We have two types of staging areas in snowflake.
 - External staging area.
 - Internal staging area.

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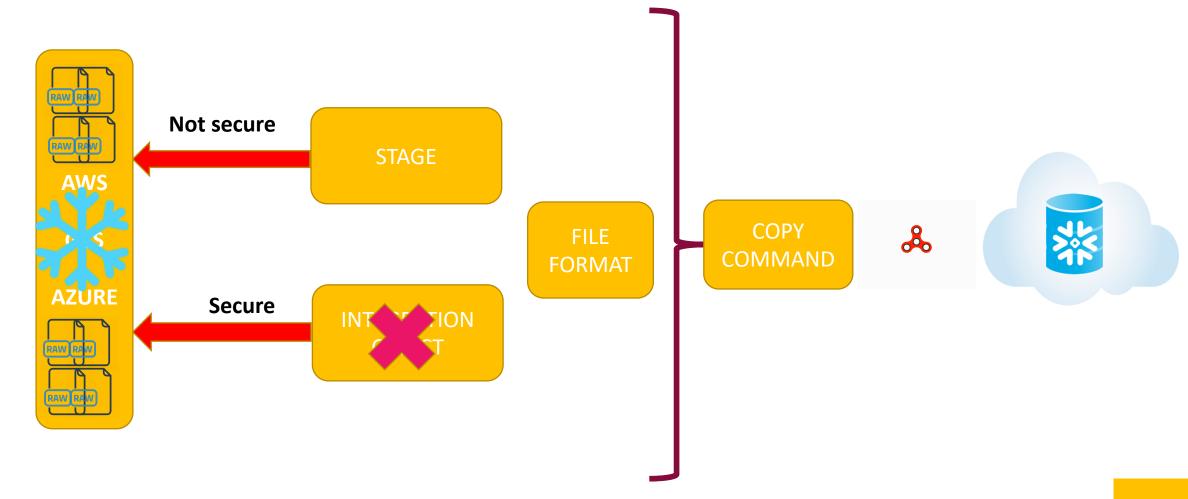
Configuring stages with snowflake database.

EXTERNAL STAGING SNOWFLAKE



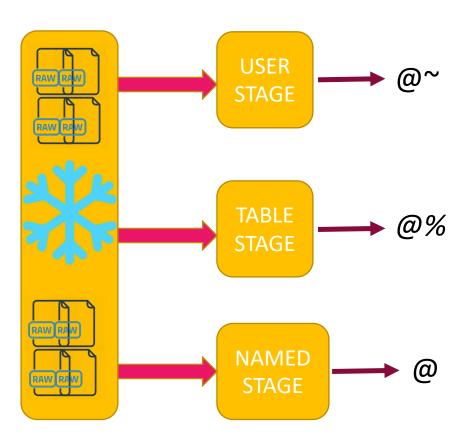
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INTERNAL STAGING SNOWFLAKE



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USER STAGES IN SNOWFLAKE

- Each user has a Snowflake stage allocated to them by default for storing files. This stage is a convenient option if your files will only be accessed by a single user but need to be copied into multiple tables.
- Constraints
 - Multiple users require access to the files.
 - The current user does not have INSERT privileges on the tables the data will be loaded into.

TABLE STAGES IN SNOWFLAKE

Each table has a Snowflake stage allocated to it by default for storing files.

This stage is a convenient option if your files need to be accessible to multiple users and only need to be copied into a single table.

Constraints

- Multiple users require access to the files.
- Unlike named stages, table stages cannot be altered or dropped.
- Table stages do not support setting file format options. Instead, you must specify file format and copy options as part of the <u>COPY INTO </u> command.
- Table stages do not support transforming data while loading it (i.e. using a query as the source for the COPY command).

NAMED STAGES IN SNOWFLAKE

- Internal stages are named database objects that provide the greatest degree of flexibility for data loading. Because they are database objects, the security/access rules that apply to all objects apply
- Users with the appropriate privileges on the stage can load data into any table.
- Ownership of the stage can be transferred to another role, and privileges granted to use the stage can be modified to add or remove roles.

- Syntax for creating stage objects.
- Syntax for creating file format object.
- Understood differences between both objects.
- Best practice to create stage object and file format object.
- You got high level overview of copy command.

- How to use put command.
- How to list files, remove files in staging area.
- Split part function in snowflake.
- Using place holders while executing copy command.
- Performance impact and storage impact if you are not cleaning staging area.

- How to use get command.
- How to unload only selective columns to stage.
- OVERWRITE option and creating files with different names.
- Syntax of copy command to unload data.

- Named stage is an object.
- You can desc it and provide access control and revoke access for named stage.
- You can share data stored in named stage across tables.

Working with Internal staging area

- How to upload data to internal staging area.
- Download data from internal staging area.
- Using table stage and named stage.
- Best practice while using internal staging.