

# [Snowflake] - SnowflakeSQLException: IP x.x.x.x is not allowed to access Snowflake. Contact your local security administrator

Last updated by | Zhangyi Yu | Apr 12, 2022 at 7:55 PM PDT

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
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## Issue

When customer uses snowflake in Azure Data Factory, he/she can successfully have test-connection on snowflake linked service, preview-data/import-schema on snowflake dataset, run copy/lookup/get-metadata... activity with it.

But when customer uses snowflake in dataflow activity, he/she may meet error like "SnowflakeSQLException: IP 13.66.58.164 is not allowed to access Snowflake. Contact your local security administrator."

## Root Cause


The root cause is Azure Data Factory dataflow does not support the use of fixed IP ranges, for details, please reference <https://docs.microsoft.com/en-us/azure/data-factory/azure-integration-runtime-ip-addresses> 

## Resolution

When customer meets up issue, please ask him/her to change the snowflake account firewall settings with following steps:

**Option-1:** Please ask customer to use public network to connect snowflake to read/write data.

**Option-2:**

1. The customer can get IP range list of service tags from the "service tags IP range download link" <https://docs.microsoft.com/en-us/azure/virtual-network/service-tags-overview#discover-service-tags-by-using-downloadable-json-files> 

## Discover service tags by using downloadable JSON files

You can download JSON files that contain the current list of service tags together with IP address range details. These lists are updated and published weekly. Locations for each cloud are:

- [Azure Public](#)
- [Azure US Government](#)
- [Azure China](#)
- [Azure Germany](#)

The IP address ranges in these files are in CIDR notation.

2. If the customer is running dataflow in "southcentralus" region, customer needs to allow access from all addresses with name "AzureCloud.southcentralus", for example:

```
ServiceTags_Public_20210201.json
{
  "name": "AzureCloud.southcentralus",
  "id": "AzureCloud.southcentralus",
  "properties": {
    "changeNumber": 25,
    "region": "southcentralus",
    "regionId": 35,
    "platform": "Azure",
    "systemService": "",
    "addressPrefixes": [
      "13.65.0.0/16",
      "13.66.0.0/17",
      "13.73.240.0/20",
      "13.84.0.0/15",
      "13.104.144.64/27",

```

The values in adress are not fixed, they may be changed with Azure databricks compute scale up with low frequence.

## Additional Information:

- Icm Reference: N/A
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- Reviewer: Zhangyi Yu; Shawn Xiao