Azure Connectors For Linux

# Technical document

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Azure Connectors Document Version

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Contents

[1. Introduction 2](#_Toc127227241)

[2. Prerequisites 2](#_Toc127227242)

[3. Config 3](#_Toc127227243)

[*Parameters* 3](#_Toc127227244)

[4. How to run 3](#_Toc127227245)

# Introduction

Azure connector allows user to create a mapped drive of the blob storage in local machine. This mapped drive can be used as any other drive in local file system.

# Prerequisites

To use this connector module in Linux machine a virtual file system drive Blobfuse needs to be installed. BlobFuse allows user to access existing block blob data in the storage account through the Linux file system. BlobFuse uses the virtual directory scheme with the forward-slash '/' as a delimiter.

There are few steps to install Blobfuse in Linux,

1. **Configure Microsoft package repository:**

On a Redhat Linux distribution use the following,

* sudo rpm -Uvh <https://packages.microsoft.com/config/rhel/8/packages-microsoft-prod.rpm>

On an Ubuntu 20.04 distribution,

* wget <https://packages.microsoft.com/config/ubuntu/20.04/packages-microsoft-prod.deb>
* sudo dpkg -i packages-microsoft-prod.deb
* sudo apt-get update

1. **Install Blobfuse:**

On an Ubuntu distribution,

* sudo apt-get install blobfuse

On a Redhat enterprise,

* sudo yum install blobfuse

On a SUSE distribution,

* sudo zypper install blobfuse

1. **Use an SSD as temporary path:**

* sudo mkdir /mnt/resource/blobfusetmp -p
* sudo chown <youruser> /mnt/resource/blobfusetmp

# Config

## *Parameters*

* **containerName**: name of the adl container.
* **accountName**: account name of adl
* **accountKey**: account key of adl.
* **password\_file\_path:** password file path of adl account.
* **mount\_folder\_name:** folder name in which mount will be done

# How to run

After ensuring all the config parameter values are fine, user needs to execute the following python file,

* python \ixolerator\connectors\azure\src\adl\_mount\_linux.py

This will mount the adl folder of blob storage to a local file system folder specified in the config file.