

# *CYBERARK CONJUR SET UP MANUAL*

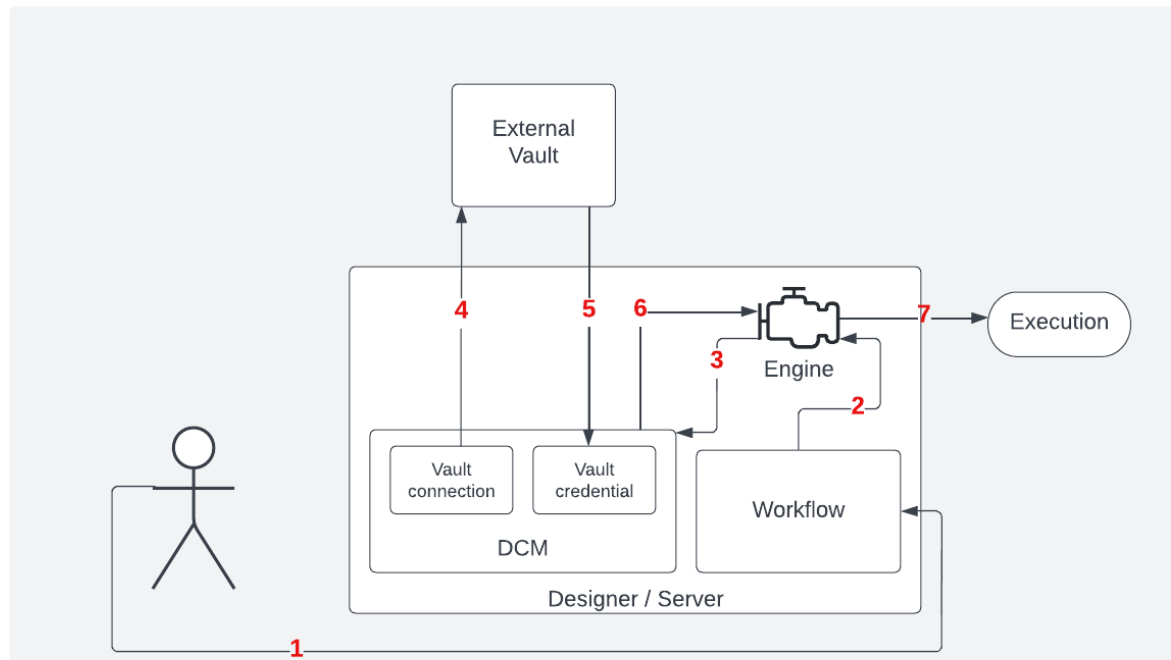
This document covers set up process of DCM (Data Connection Manager) with Cyberark Conjur Vault.

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# Integration Diagram

This diagram covers the process of executing Alteryx Designer/Server workflows with CyberArk Conjur integrated credentials.



1. User runs a workflow, where they used a credential that fetches auth data from the Vault.

5. Vault sends back the actual credential values.

2. Engine takes the workflow xml and starts executing it.

6. DCM send the connection string to the engine. Connection string contains the credential values, but are sent in a "passthrough manner" - DCM does not store them anywhere.

3. While executing, Engine encounters "connection id", so it asks DCM about its content.

7. Engine finishes execution of the workflow, using the credential values received from DCM. They are only used during runtime, and are not stored anywhere once the workflow run finishes.

4. DCM matches "connection id" to an existing credential, and asks Vault for the auth data.

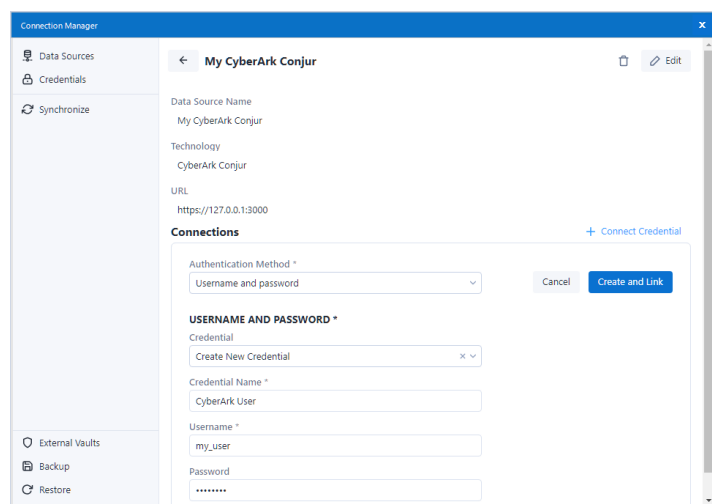
# Set up an External Vault connection

In this chapter, you will connect DCM to your CyberArk Conjur instance, so that later you can fetch an authentication data from CyberArk Conjur to your workflow.

1. Open DCM by going to **File - Manage Connections**.
2. Select **External Vaults**.
3. Select the + **New** button to add a new Vault to DCM.
4. Choose the **CyberArk Conjur** technology.
5. Enter a custom name for this Vault connection.
6. Next, enter the URL where your CyberArk Conjur is located and select **Save**.  
Both HTTP and HTTPS are supported, although with HTTPS, make sure you have a valid certificate configured on each machine connecting to Conjur (Designer and Server host) in the Windows certificate store, or all instances are trusted. No need to manually import/enter the certificate into DCM directly. More on Conjur certificates [here](#).  
*For example* `https://127.0.0.1:3000`
7. Select + **Connect Credential** and choose **Create New Credential** in the **Credential** dropdown.
8. Fill in the fields (the username and password you use to access CyberArk Conjur).
9. Select **Create and Link**.

From now on, you will be able to select this newly created Vault when you create new Credentials.

*Example:*

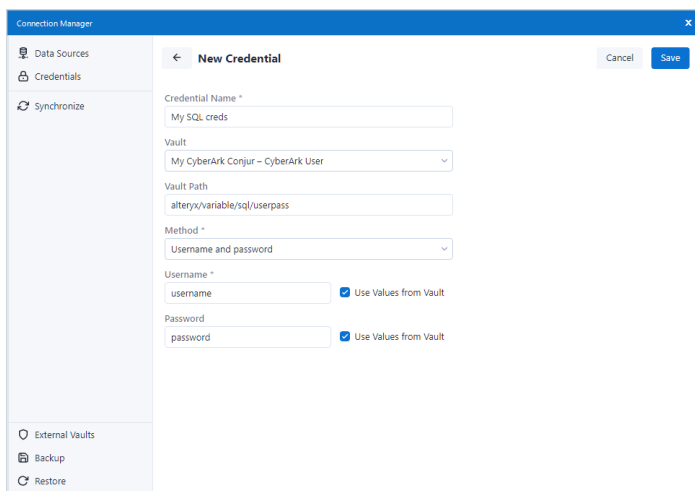


# Create a new Credential that uses an External Vault

In this chapter, you will create a new DCM Credential, which will use the External Vault connection to get an authentication data from CyberArk Conjur.

1. Open DCM by going to **File - Manage Connections**.
2. Select **Credentials** in the top-left corner.
3. Select the + **Add Credential** button to add a new Credential.
4. Enter a name for your new Credential.
5. In the **Vault** dropdown, choose the Conjur instance you created in the previous chapter.
6. Fill in the **Vault Path** field with the path to the authentication data in your CyberArk Conjur. The path should always be prefixed by the *account name* followed by the text “variable”, followed by the actual path under that account, in order to reach the right Conjur secret. *For example, if I have a username and password for my Microsoft SQL database saved in Conjur, the path could be this: "alteryx/variable/sql/userpass"*
7. Next, choose your preferred **Method** of authentication. This method should match the authentication data you want to fetch from Conjur. *For example, if I want to get the Username and Password from Conjur, I will select the "Username and password" option.*
8. Make sure the **Use Values from Vault** checkbox is enabled, if you want the authentication data to be fetched from Conjur. Then, each corresponding field should contain the key, under which is the value saved in your Conjur. *For example, if my Username is saved in Conjur under a key named "SQLUsername1", then I will check "Use Values from Vault" and enter "SQLUsername1" in the Username field.*
9. Select **Save**.  
From now on, you will be able to use this newly created Credential for a corresponding Data Source when you configure a workflow tool.

*Example:*



The screenshot shows the 'New Credential' dialog in the Connection Manager. The dialog has a sidebar on the left with options: Data Sources, Credentials, Synchronize, External Vaults, Backup, and Restore. The main area is titled 'New Credential' and contains the following fields:

- Credential Name \***: My SQL creds
- Vault**: My CyberArk Conjur - CyberArk User
- Vault Path**: alteryx/variable/sql/userpass
- Method \***: Username and password
- Username \***: username (with a checked 'Use Values from Vault' checkbox)
- Password**: password (with a checked 'Use Values from Vault' checkbox)

At the bottom right of the dialog are 'Cancel' and 'Save' buttons.

# Use the Credential in a workflow

In this chapter, you will use your new Credential in a workflow. This flow is identical to using a Credential stored in DCM.

1. Start by creating a new Workflow, and adding some input or output data tools.  
*For example, I can add an Input Data tool*
2. Make sure the tool is configured to use DCM (enable the **Use Data Connection Manager (DCM)** checkbox in my Input Data tool).
3. Setting up your connection, choose your desired technology.  
*For example, I will select "MSSQL Server Quick Connect" in my Input Data tool*
4. Once the **Connection Manager** window opens, choose an existing Data Source or create a new one.
5. Select + **Connect Credential** and choose the credential created in the previous chapter (the one that gets authentication data from Conjur).  
*For example, I will select the Credential that I named "John's MSSQL creds".*
6. Select **Create and Link**.
7. Select **Connect**.
8. Now, the connection is set up. You can proceed to configure any specific details related to your data source technology (e.g. select database table, record limit, etc.).  
Once your workflow is ready, run it to see if you correctly authenticate to your Data Source using Credentials obtained from your CyberArk Conjur.