**Cloud Automation Community Framework**

**(CACF)**

**BOX Utility Configuration Guide  
Version 1.0.0**

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Document Version: 1.0.0

Last Revised: June 25, 2021

**Security Classification**

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## Document Purpose

The purpose of this document is to provide step by step instructions to configure Ansible Tower for use by the BOX Utility ansible role. This will also support any manually run Playbook for any kind of file(s) upload to and download from BOX web application.

## Document Location

This is a snapshot of an on-line document. Paper copies are valid only on the day they are printed. Refer to the author if you are in any doubt about the currency of this document.

The source of the document can be found at the DA 2.0 community [Release & Deploy section](https://apps.na.collabserv.com/wikis/home?lang=en-us#!/wiki/We6826dbd1b72_4cc5_a37f_3c542dacdc64/page/DA 2.0 Release %26 Deployment)

## Document History

Please refer to the section below for the updates on the latest release

|  |  |  |
| --- | --- | --- |
| **Date** | **Document Version** | **Updates** |
| 20 May 2021 | 1.0 | BOX Utility Configuration Guide |
|  |  |  |

# High Level Solution Overview

BOX Utility provides a facility to upload and download files from BOX using the BOX API. This utility helps transfer files from a machine to BOX and from BOX to a machine without user intervention. Whenever any playbook invokes this BOX utility role, (Ex: a scheduled based or an event-based execution) and generates a file, this utility automatically uploads the generated report/file on to the user specified location on BOX.

Solution:

The solution is to define all the data mentioned below in Tower Credentials and allow Content playbooks to use this data to encrypt/decrypt the BOX utility as required by the Playbooks.

|  |
| --- |
| Data to be defined in Tower Credentials |
| 1. clientid (string) 2. clientsecret (secure) 3. privatekey (secure) 4. passphrase (secure) 5. enterpriseid (string) 6. publickeyid (string) |

Credentials:

Credentials will contain secure information that encrypt and decrypt the required event data for the work performed by Tower.

Once the above parameters are defined in Tower, the variables will be available for use by the Content Playbooks.

# Configuring Ansible Tower for BOX Utility Playbooks

## Define BOX Utility Credential Type

BOX utility Credential Types are generic and will be used across all organizations.

|  |  |
| --- | --- |
| Actions | Values |
| (1) Create custom BOX Utility Credential Type to contain all the BOX Utility variables.  ==> credtype\_box\_utility  INPUT CONFIGURATION: | Copy/Paste into the INPUT CONFIGURATION:  fields:  - id: clientid  type: string  label: Client ID  - id: clientsecret  type: string  label: Client Secret  secret: true  - id: privatekey  type: string  label: Box Private Key  format: ssh\_private\_key  secret: true  multiline: true  help\_text: Paste the contents of the ssh key from box json file.  - id: passphrase  type: string  label: Passphrase  secret: true  - id: enterpriseid  type: string  label: Enterprise ID  - id: publickeyid  type: string  label: Publickey ID  required:  - clientid  - clientsecret  - privatekey  - passphrase  - enterpriseid  - publickeyid |
| ==> credtype\_box\_utility  INJECTOR CONFIGURATION: | Cut/Paste into the INJECTOR CONFIGURATION:  extra\_vars:  CLIENTID: "{{ clientid }}"  CLIENTSECRET: "{{ clientsecret }}"  PRIVATEKEY: "{{ privatekey }}"  PASSPHRASE: "{{ passphrase }}"  ENTERPRISEID: "{{ enterpriseid }}"  PUBLICKEYID: "{{ publickeyid }}" |

## Create Organizational BOX Utility Credential

BOX Credentials are organization specific. Therefore, it is recommended to prefix the name with the account TriCode <org>

An option to standardize the name for easier identification is available by adding a suffix. i.e. the name of the BOX Credential can have \_<custom> at the end.

|  |  |
| --- | --- |
| Actions | Value |
| (1) BOX Utility Credential.  ==> <org>\_cred\_boxutil\_<custom>  <org> = Organization  <custom> = Custom Field to identify the BOX Utility. | Enter proper values for the BOX application definition. Example Info is in Blue.  \* Name **wlp\_cred\_boxutil\_keystore**  Description WLP Creds for BOX Utility  Organization  \* Credential Type: credtype\_box\_utility  Type Details  \* Client ID: yoo938dmdkeyz2doldeqv60is9  \* Client Secret: \*\*\*\*\*\*\*\*\*\*\*\*\*  \* Box Private Key: \*\*\*\*\*\*\*\*\*\*\*\*\*  \* Passphrase: \*\*\*\*\*\*\*\*\*\*\*\*\*  \* Enterprise ID: 455558  \* Publickey ID: xyzlmkfr |

## BOX Utility Content Playbooks/Role

BOX Utility Content Roles/Playbooks have been developed to use the above mentioned credential and variables to efficiently handle the BOX Utility requests by any playbook(s) in Continuous-Engineering.

|  |  |
| --- | --- |
| **Standard BOX Utility Variables to be used in Playbooks** | **Explanation of Variable** |
| clientid | Client ID is identity of BOX application |
| clientsecret | Client secret is used for connectivity through BOX API |
| privatekey | Private key is used for generating token through BOX API |
| passphrase | Passphrase is for authentication of private and public keys |
| enterpriseid | BOX App enterprise id |
| publickeyid | Nick name of public key |