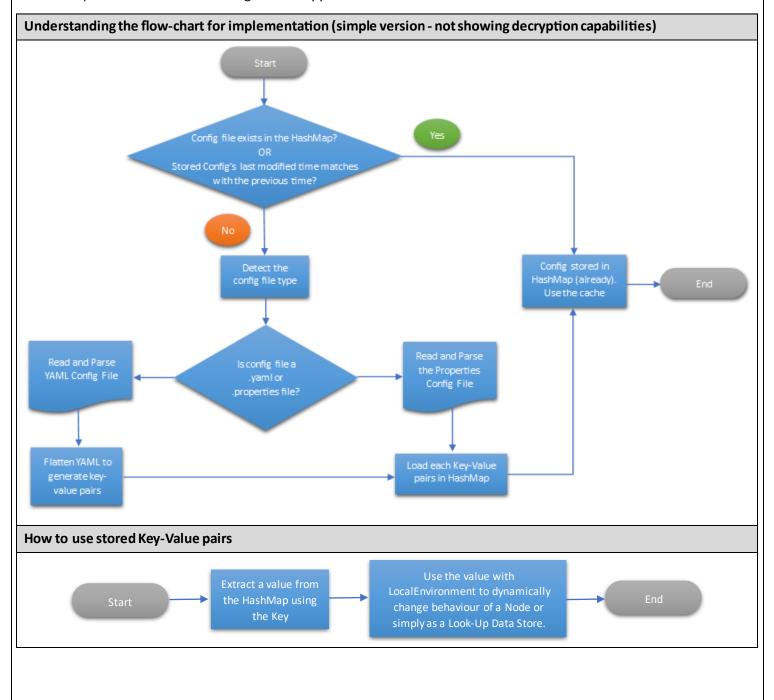


## Using (Secured) YAML or Properties Config file as a DataStore in IBM App Connect Enterprise

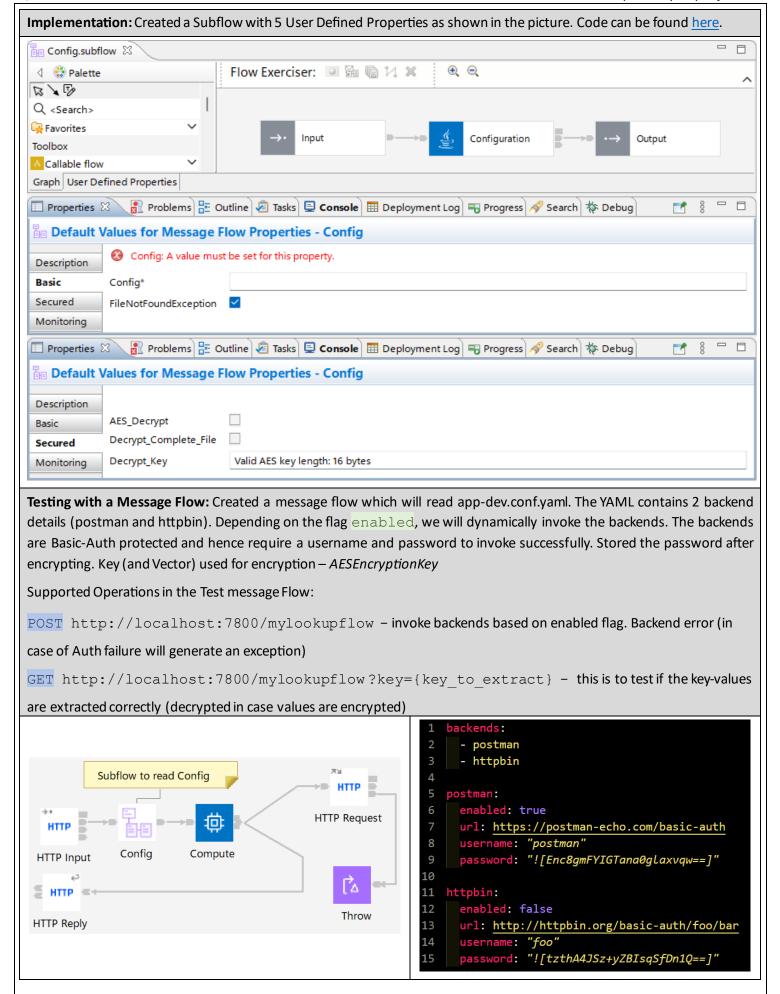
This document demonstrates and implements a concept of using YAML or Properties file to use as a DataStore for lookup. Changing the config will not require the application to be redeployed or restarted. This can minimize maintenance time for an application as well as develop re-usable codes that can be dynamically configured.

## Features Implemented:

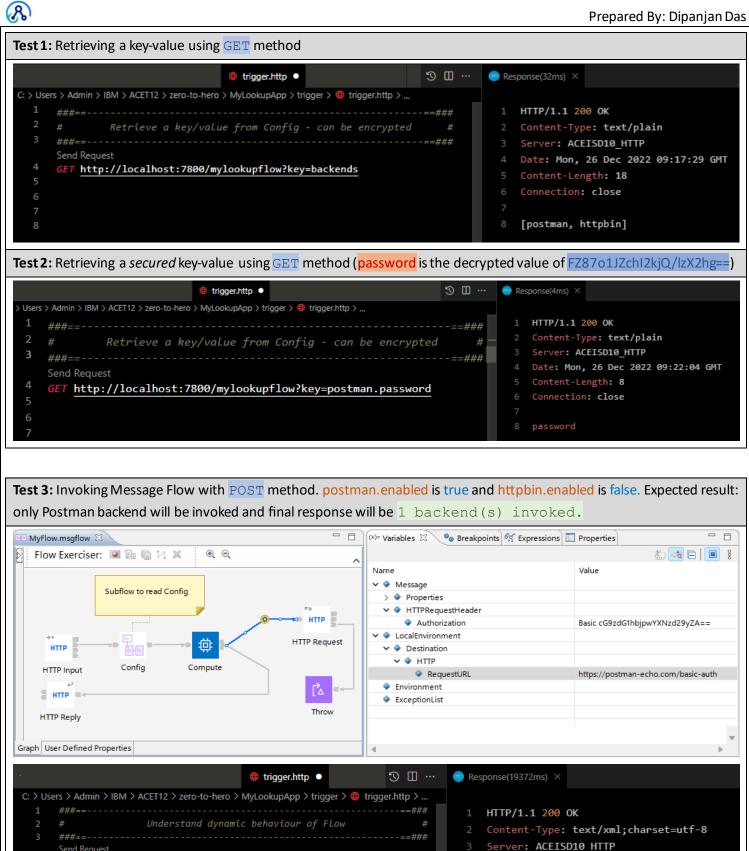
- ✓ Support for YAML or Properties config file
- ✓ Supports AES/CBC/PKCS5PADDING decryption [both key level (similar to this) and file level (similar to this) decryption support]
- ✓ Local caching for better performance
- ✓ Auto-detect changes in config file. This reloads the config without redeploying/restarting application.
- ✓ YAML files can be bundled within BAR and hence no separate deployment/placing of files required. Properties file can be placed in the server running the ACE application.











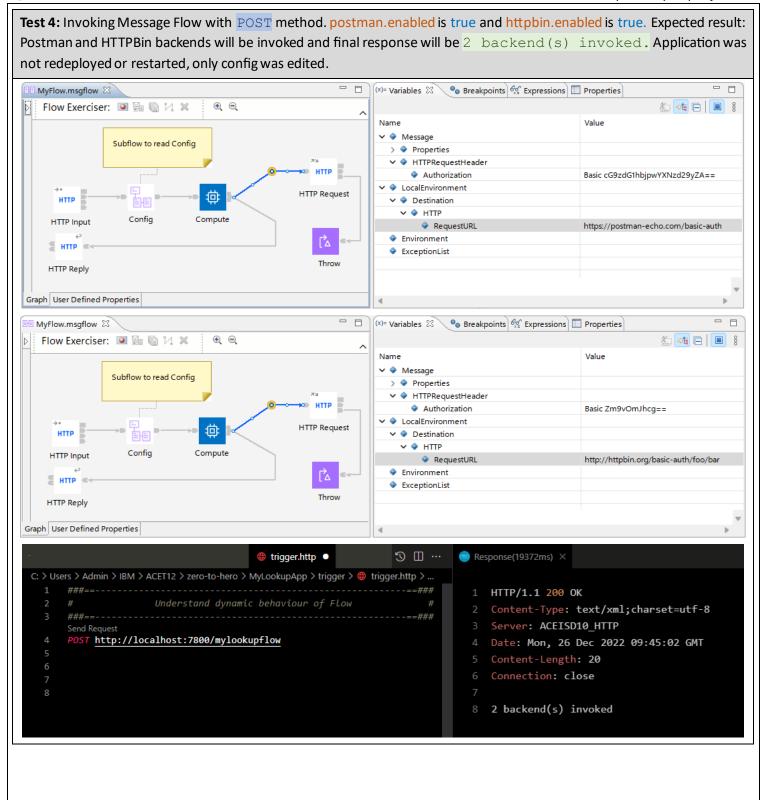
4 Date: Mon, 26 Dec 2022 09:36:35 GMT

Content-Length: 20 Connection: close

1 backend(s) invoked

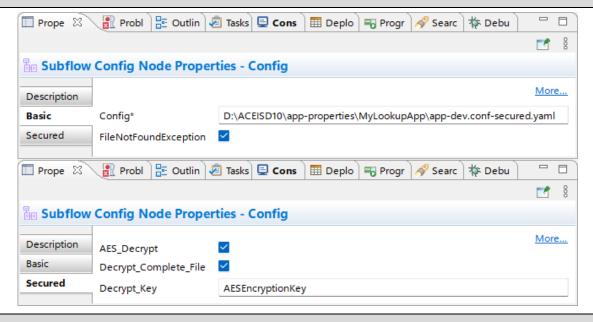
POST http://localhost:7800/mylookupflow







**Test 5:** Testing with full encrypted file. Changing the User Defined Variable values as shown. Since the app-dev.conf-secured.yaml consists of encrypted values, for reference, app-dev.conf-unsecured.yaml contains the same data in unencrypted format. Using this to retrieve key-value pairs to check if decryption works as expected.



Invoked the service refering the keys from app-dev.conf-unsecured.yaml and matching with the expected results. The response received and response expected matched. Hence, the encrypted file (entire file and not just the values of the Key) was decrypted successfully.

```
HTTP/1.1 200 OK
        Retrieve a key/value from Config - can be encrypted
                                                                           Content-Type: text/plain
###=
                                                                           Server: ACEISD10_HTTP
Send Request
                                                                           Date: Mon, 26 Dec 2022 11:03:10 GMT
GET http://localhost:7800/mylookupflow?key=exponentialType
                                                                           Content-Length: 9
                                                                           Connection: close
                                                                           1230150.0
                                                                           HTTP/1.1 200 OK
        Retrieve a key/value from Config - can be encrypted
                                                                           Content-Type: text/plain
                                                                           Server: ACEISD10_HTTP
Send Request
                                                                           Date: Mon, 26 Dec 2022 11:04:07 GMT
GET http://localhost:7800/mylookupflow?key=dictionaryType.hostname.dev
                                                                           Content-Length: 8
                                                                           Connection: close
                                                                           dev.host
```