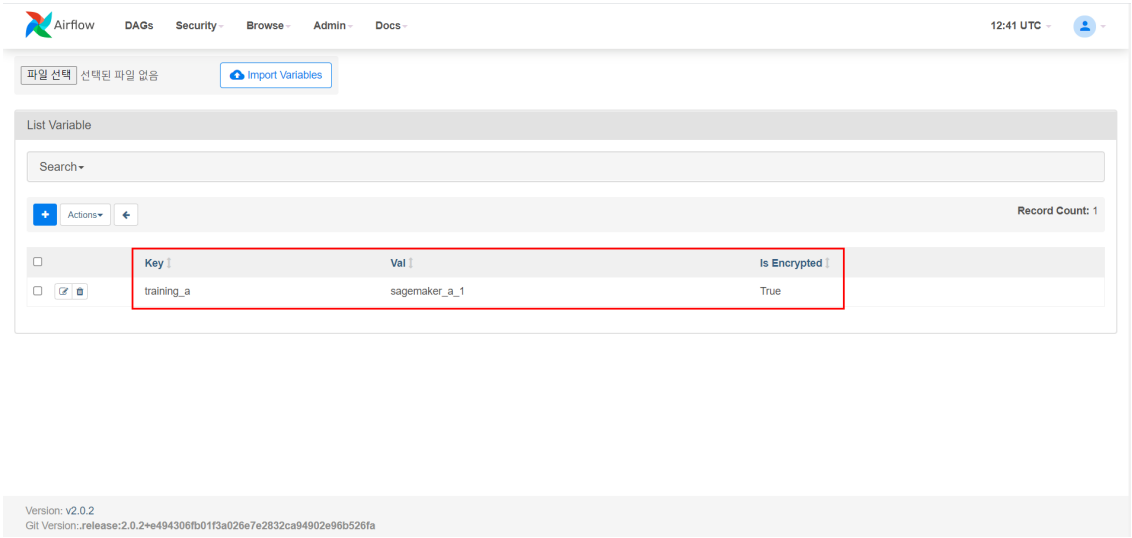
MWAA 기능 test

MWAA와의 같은 환경의 Lambda 또는 EC2에서 MWAA CLI test

1. Variable 변경

   AS-IS Variable




```
# MWAA CLI
variables set {KEY} {VALUE}
# json을 Value 값으로 변경하려는 경우
variables set {KEY} --json '{"KEY" : "VALUE", "KEY" : "VALUE"}'
```

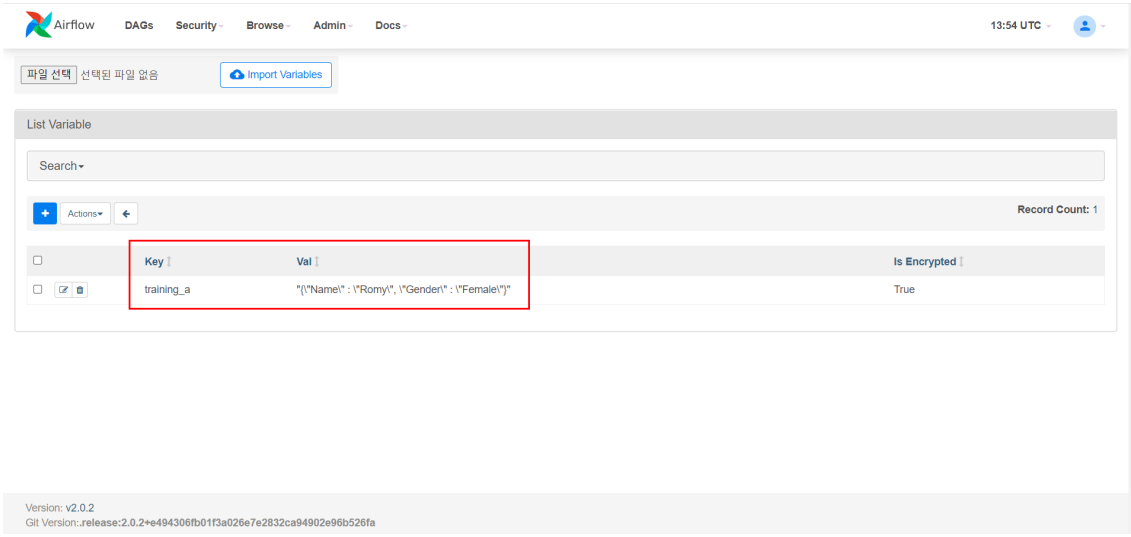
```
# Test code
import json
import boto3
import requests
import base64
from pprint import pprint

# Your MWAA Name
resource_id = "cjm-cdf-MwaaEnvironment"

client = boto3.client('mwaa', region_name='us-west-2')
token = client.create_cli_token(Name=resource_id)
url = "https://{0}/aws_mwaa/cli".format(token['WebServerHostname'])
# MWAA CLI to Body
body = """variables set training_a --json '{"Name" : "Romy", "Gender" :
"Female"}'"""
headers = {
    'Authorization' : 'Bearer '+token['CliToken'],
    'Content-Type': 'text/plain'
    }
r = requests.post(url, data=body, headers=headers)

mwaa_std_out_message = base64.b64decode(r.json()['stdout']).decode('utf8')
pprint(mwaa_std_out_message)
```

TO-BE



2. 전체 DAG 조회

```
# MWAA CLI
# Output 변경 가능 (table, yaml, plain text)
dags report -o json
```

```
# Test code
import json
import boto3
import requests
import base64
from pprint import pprint

# Your MWAA Name
resource_id = "cjm-cdf-MwaaEnvironment"

client = boto3.client('mwaa', region_name='us-west-2')
token = client.create_cli_token(Name=resource_id)
url = "https://{0}/aws_mwaa/cli".format(token['WebServerHostname'])
# MWAA CLI to Body
body = "dags report -o json"
headers = {
    'Authorization' : 'Bearer '+token['CliToken'],
    'Content-Type': 'text/plain'
    }
r = requests.post(url, data=body, headers=headers)

mwaa_std_out_message = base64.b64decode(r.json()['stdout']).decode('utf8')
pprint(json.loads(mwaa_std_out_message))
```

```
// result json
[
    {
        'dag_num': '1',
        'dags': ['topic_2_dag_2'],
        'duration': '0:00:00.084525',
        'file': '/topic_2_dag_2.py',
        'task_num': '3'},
```

```
    {
        'dag_num': '1',
        'dags': ['mwaa_emr_2'],
        'duration': '0:00:00.049332',
        'file': '/mwaa_emr_2.py',
        'task_num': '3'},
    {
        'dag_num': '1',
        'dags': ['import_config'],
        'duration': '0:00:00.001544',
        'file': '/import_config.py',
        'task_num': '3'
    }
]
```

3. 특정 DAG 조회

```
# MWAA CLI
# Output 변경 가능 (table, yaml, plain text)
dags list-jobs -d DAG_ID -o json
```

```
# Test code
import json
import boto3
import requests
import base64
from pprint import pprint

# Your MWAA Name
resource_id = "cjm-cdf-MwaaEnvironment"

client = boto3.client('mwaa', region_name='us-west-2')
token = client.create_cli_token(Name=resource_id)
url = "https://{0}/aws_mwaa/cli".format(token['WebServerHostname'])
# MWAA CLI to Body
body = "dags list-jobs -d import_config -o json"
headers = {
    'Authorization' : 'Bearer '+token['CliToken'],
    'Content-Type': 'text/plain'
    }
r = requests.post(url, data=body, headers=headers)

mwaa_std_out_message = base64.b64decode(r.json()['stdout']).decode('utf8')
pprint(json.loads(mwaa_std_out_message))
```

```
// result json
[
    {
        'dag_id': 'import_config',
        'end_date': '2021-09-13 14:20:33.075438+00:00',
        'job_type': 'LocalTaskJob',
        'start_date': '2021-09-13 14:20:29.162906+00:00',
        'state': 'success'
    }
]
```

4. 전체 DAG 실행 내역 조회

```
# MWAA CLI
# Output 변경 가능 (table, yaml, plain text)
dags list-runs -o json
```

```
# Test code
import json
import boto3
import requests
import base64
from pprint import pprint

# Your MWAA Name
resource_id = "cjm-cdf-MwaaEnvironment"

client = boto3.client('mwaa', region_name='us-west-2')
token = client.create_cli_token(Name=resource_id)
url = "https://{0}/aws_mwaa/cli".format(token['WebServerHostname'])
# MWAA CLI to Body
body = "dags list-runs -o json"
headers = {
    'Authorization' : 'Bearer '+token['CliToken'],
    'Content-Type': 'text/plain'
    }
r = requests.post(url, data=body, headers=headers)

mwaa_std_out_message = base64.b64decode(r.json()['stdout']).decode('utf8')
pprint(json.loads(mwaa_std_out_message))
```

```
// result json
[
    {
        'dag_id': 'import_config',
        'end_date': '2021-09-13T14:20:33.002278+00:00',
        'execution_date': '2021-09-13T14:20:27.596561+00:00',
        'run_id': 'manual__2021-09-13T14:20:27.596561+00:00',
        'start_date': '2021-09-13T14:20:27.609722+00:00',
        'state': 'success'
    }
]
```

5. 특정 DAG 실행 내역 조회

```
# MWAA CLI
# Output 변경 가능 (table, yaml, plain text)
dags list-runs -d DAG_ID -o json
```

```
# Test code
import json
import boto3
import requests
import base64
from pprint import pprint

# Your MWAA Name
resource_id = "cjm-cdf-MwaaEnvironment"

client = boto3.client('mwaa', region_name='us-west-2')
token = client.create_cli_token(Name=resource_id)
url = "https://{0}/aws_mwaa/cli".format(token['WebServerHostname'])
# MWAA CLI to Body
body = "dags list-runs -d import_config -o json"
headers = {
    'Authorization' : 'Bearer '+token['CliToken'],
    'Content-Type': 'text/plain'
    }
r = requests.post(url, data=body, headers=headers)

mwaa_std_out_message = base64.b64decode(r.json()['stdout']).decode('utf8')
pprint(json.loads(mwaa_std_out_message))
```

```
// result json
[
    {
        'dag_id': 'import_config',
        'end_date': '2021-09-13T14:20:33.002278+00:00',
        'execution_date': '2021-09-13T14:20:27.596561+00:00',
        'run_id': 'manual__2021-09-13T14:20:27.596561+00:00',
        'start_date': '2021-09-13T14:20:27.609722+00:00',
        'state': 'success'
    }
]
```

6. 특정 DAG 실행 상태 조회

```
# MWAA CLI
dags state DAG_ID execution_date
```

```
# Test code
import json
import boto3
import requests
import base64
import ast
```

```
from pprint import pprint

# Your MWAA Name
resource_id = "cjm-cdf-MwaaEnvironment"

client = boto3.client('mwaa', region_name='us-west-2')
token = client.create_cli_token(Name=resource_id)
url = "https://{0}/aws_mwaa/cli".format(token['WebServerHostname'])
# MWAA CLI to Body
body = "dags state import_config '2021-09-13T14:20:27.596561+00:00'"
headers = {
    'Authorization' : 'Bearer '+token['CliToken'],
    'Content-Type': 'text/plain'
    }
r = requests.post(url, data=body, headers=headers)

mwaa_std_out_message = base64.b64decode(r.json()['stdout']).decode('utf8')
status = mwaa_std_out_message.split("\n")[-2]
pprint(status)
```

```
# result
'success'
```