

# ODK Project Encryption Process (April 2024 ver. 1.0)

## INTRODUCTION

This document describes the **required** process for encrypting an ODK cloud or self-hosted project. IMPORTANT: All ODK projects **must** be encrypted as described herein. A more concise version of this document can be found within CI's Gitlab instance<sup>1</sup>.

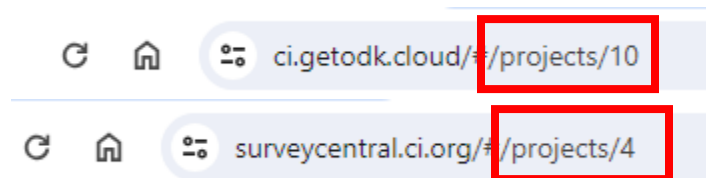
### Prerequisites:

1. The environment for the Compassion Outcomes Framework (COF) has been setup on your computer.
2. You have a login setup for a Compassion developer AWS account.
3. Visual Studio Code (VSCode) has been installed on your computer.
4. You are connected to the VPN.

For this document, we need to see three different tools as it follows:

## STEP 1: ODK

In ODK we need to verify the project ID number which appears on the URL as it is shown on the following capture. This can be found in any environment (Cloud or selfhost)



For the above examples those project IDs would be 10 and 4 respectively.

After you have found the project ID, then you can move to the next step.

## STEP 2: VSCODE

Open your VSCode and on your cof.yaml file you can make changes according to the project ID and the environment. All environments are on it, so it can be selected as it is shown on the following.

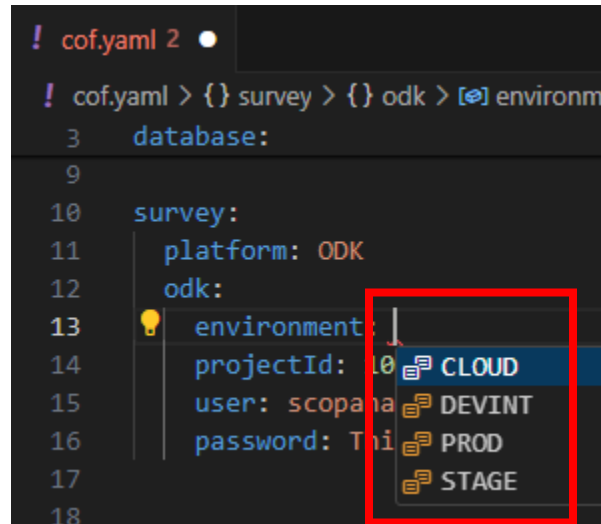
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<sup>1</sup> [https://gitlab.com/ciorg/sharedteams/data-works/cof/cof-tools/-/blob/master/doc/SetupEncryptionGuide.md?ref\\_type=heads](https://gitlab.com/ciorg/sharedteams/data-works/cof/cof-tools/-/blob/master/doc/SetupEncryptionGuide.md?ref_type=heads)

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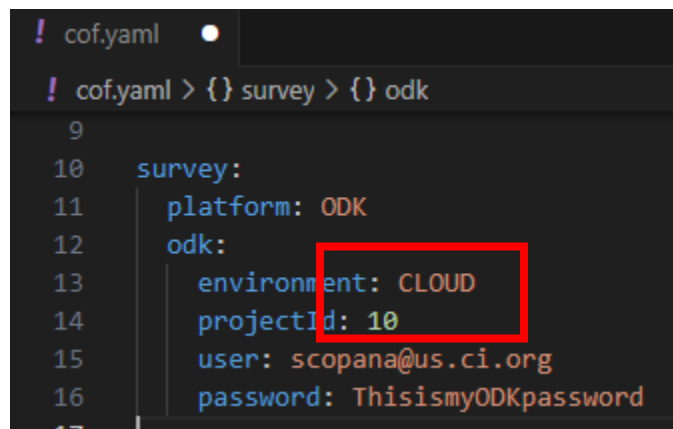
The following ODK environments are supported:

- CLOUD: This is the ODK Cloud / SaaS environment.
- DEVINT: The ODK DEVINT environment hosted by CI.
- STAGE: The ODK STAGE environment hosted by CI.
- PROD: The ODK PROD environment host by CI.



```
! cof.yaml 2
! cof.yaml > {} survey > {} odk > [e] environm
3   database:
9
10  survey:
11    platform: ODK
12    odk:
13      environment:
14      projectId: 10
15      user: scopana
16      password: ThisismyODKpassword
17
18
```

- For ODK Cloud example



```
! cof.yaml
! cof.yaml > {} survey > {} odk
9
10  survey:
11    platform: ODK
12    odk:
13      environment: CLOUD
14      projectId: 10
15      user: scopana@us.ci.org
16      password: ThisismyODKpassword
17
```

- For ODK Selfhost example (PROD)

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```
! cof.yaml
! cof.yaml > ...
3  database:
9
10 survey:
11   platform: ODK
12   odk:
13     environment: PROD
14     projectId: 4
15     user: scopana@us.ci.org
16     password: ThisismyODKpassword
17
```

Once you have set your yaml file, close and save your yaml file.

Finally open your terminal and run the following commands:

We need to make sure you are logged in to AWS, running the following command: **aws sso login --profile=ba-dev**

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS
PS C:\Users\scopana\cof\cof-spec> aws sso login --profile=ba-dev
```

Press ENTER and two screens will appear making sure you are in AWS. Note that the code: “JMLD-DSWG” comes from the challenge from your AWS login.

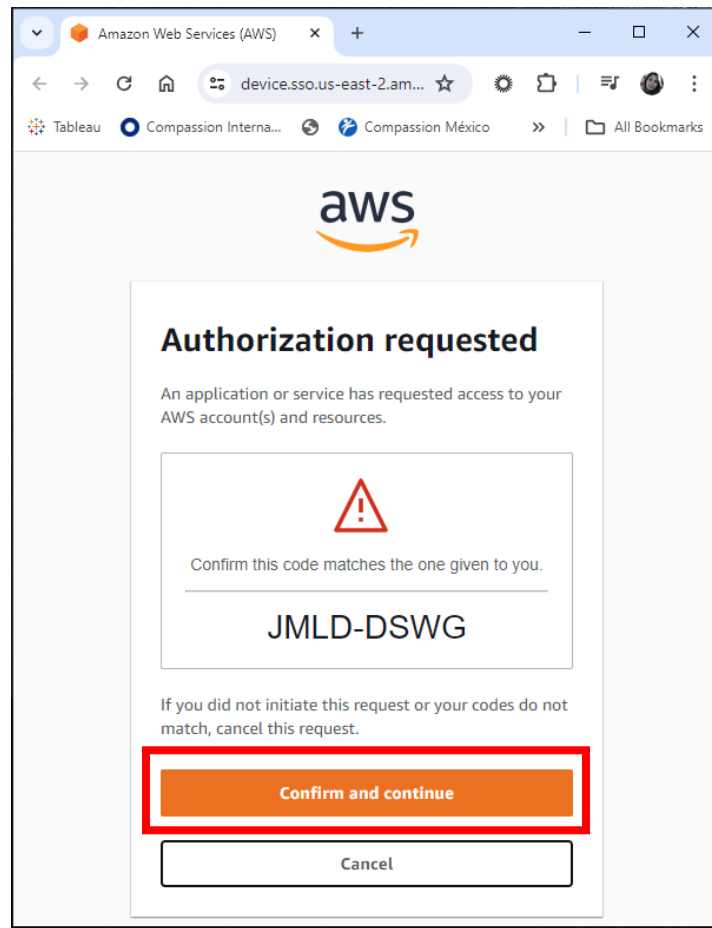
```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS
PS C:\Users\scopana\cof\cof-spec> aws sso login --profile=ba-dev
Attempting to automatically open the SSO authorization page in your default browser.
If the browser does not open or you wish to use a different device to authorize this request, open the following URL:

https://device.sso.us-east-2.amazonaws.com/

Then enter the code:

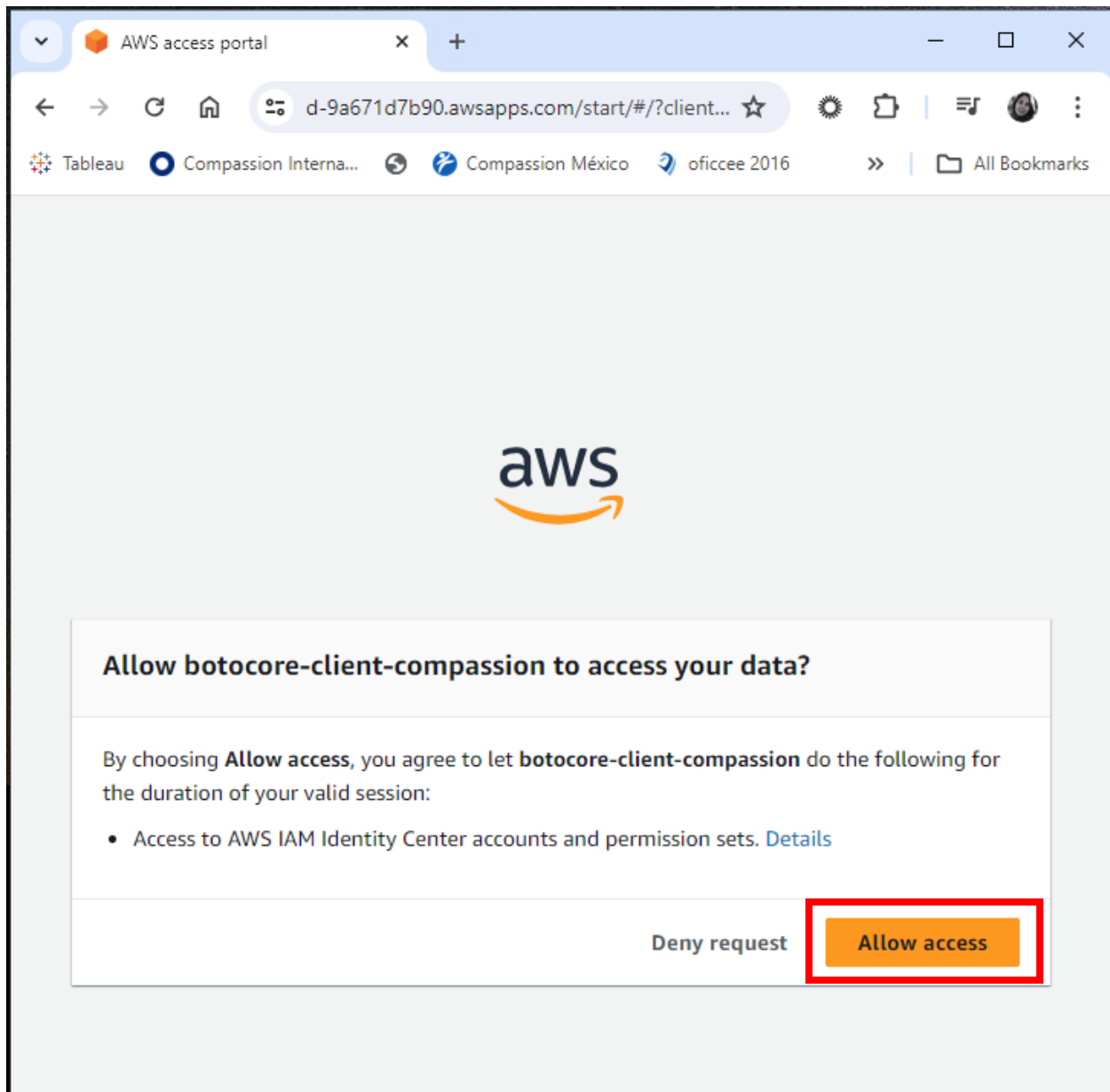
JMLD-DSWG
```

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Click on Confirm and continue. Then you will see another screen:

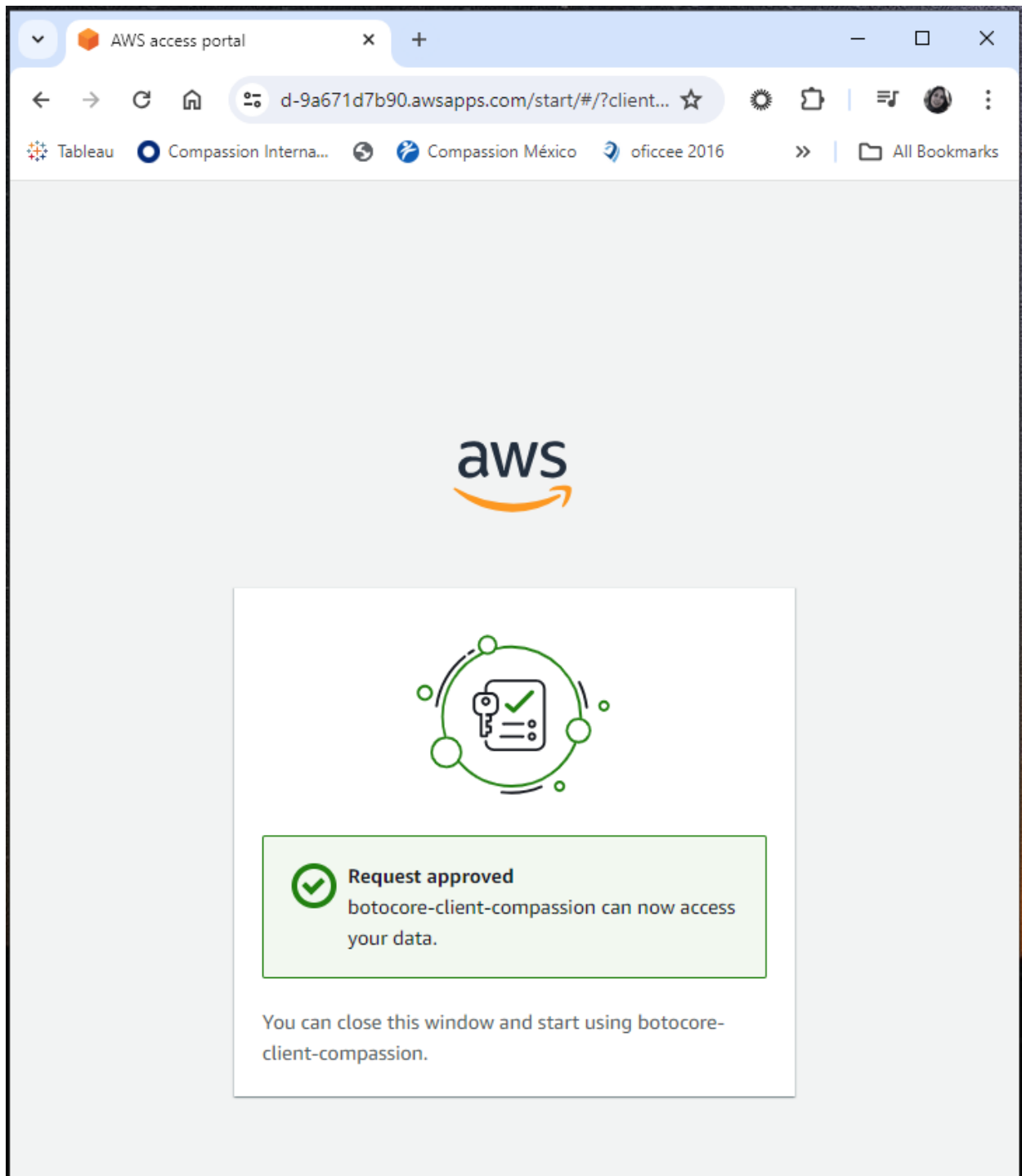
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Click on Allow access.

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The following screen will show you that a user has been successfully logged into AWS.



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A user can see the same in VSCode as It Is shown:

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS
• PS C:\Users\scopana\cof\cof-spec> aws sso login --profile=ba-dev
Attempting to automatically open the SSO authorization page in your default browser.
If the browser does not open or you wish to use a different device to authorize this request, open the following URL:

https://device.sso.us-east-2.amazonaws.com/

Then enter the code:

JMLD-DSWG
Successfully logged into Start URL: https://d-9a671d7b90.awsapps.com/start#
```

Once you are in AWS, you can run the following command to encrypt a project: **cof config encrypt** then press **ENTER**

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS
PS C:\Users\scopana\cof\cof-spec> cof config encrypt
```

To make sure you are encrypting a project VSCode will ask for It. Typing YES or just the letter Y when It pops up. This process can be done as It Is shown:

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

localization: "COUNTRY"
lenient: false
customLocale: null
baseFormats: []
localFormats:
- "dd-MMM-yy"
- "dd-MMM-yy H:mm"
- "dd-MMM-yy h:mm a"
microsoftGraph:
siteId: "7b3bdd53-644c-450e-86e8-47ed7a02bd0d"
clientId: "b215dc7c-3e37-43b2-81b9-73c859de64d1"
clientSecret: null
folder: "Automated PDF Conversion"
scopes:
- ".default"
verbose: false
smartSheet:
apiKey: null

04/02 11:48:37 WARN Offline translations not loaded; no translations available for unit tests
Are you sure you want to enable encryption on ODK PROD project 1 with key: 7]w43h0H&+'d6k%(J6Ep8$0'e<6;{vIM?
If you are sure, Type 'y' or 'yes'
THIS CANNOT BE UNDONE - The data will be permanently encrypted
```

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```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

localization: "COUNTRY"
lenient: false
customLocale: null
baseFormats: []
localFormats:
- "dd-MMM-yy"
- "dd-MMM-yy H:mm"
- "dd-MMM-yy h:mm a"
microsoftGraph:
siteId: "7b3bdd53-644c-450e-86e8-47ed7a02bd0d"
clientId: "b215dc7c-3e37-43b2-81b9-73c859de64d1"
clientSecret: null
folder: "Automated PDF Conversion"
scopes:
- ".default"
verbose: false
smartSheet:
apiKey: null

04/02 11:48:37 WARN Offline translations not loaded; no translations available for unit tests
Are you sure you want to enable encryption on ODK PROD project 1 with key: 7]w43h0H&+'d6k%(J6Ep8$0'e<6;{vIM?
If you are sure, Type 'y' or 'yes'
THIS CANNOT BE UNDONE - The data will be permanently encrypted
YES
```

Press ENTER and a project is encrypted:

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

localization: "COUNTRY"
lenient: false
customLocale: null
baseFormats: []
localFormats:
- "dd-MMM-yy"
- "dd-MMM-yy H:mm"
- "dd-MMM-yy h:mm a"
microsoftGraph:
siteId: "7b3bdd53-644c-450e-86e8-47ed7a02bd0d"
clientId: "b215dc7c-3e37-43b2-81b9-73c859de64d1"
clientSecret: null
folder: "Automated PDF Conversion"
scopes:
- ".default"
verbose: false
smartSheet:
apiKey: null

04/02 11:48:37 WARN Offline translations not loaded; no translations available for unit tests
Are you sure you want to enable encryption on ODK PROD project 1 with key: 7]w43h0H&+'d6k%(J6Ep8$0'e<6;{vIM?
If you are sure, Type 'y' or 'yes'
THIS CANNOT BE UNDONE - The data will be permanently encrypted
YES
04/02 11:50:41 INFO Updated AWS secret arn:aws:secretsmanager:us-east-2:903318353035:secret:cofodkencryptionkeyprod8583-JMCT2NwHsyxn-XTbZ7 with encryption password 7]w43h0H&+'d6k%(J6Ep8$0'e<6;{vIM
04/02 11:50:42 INFO Project Managed Encryption enabled in ODK.
```



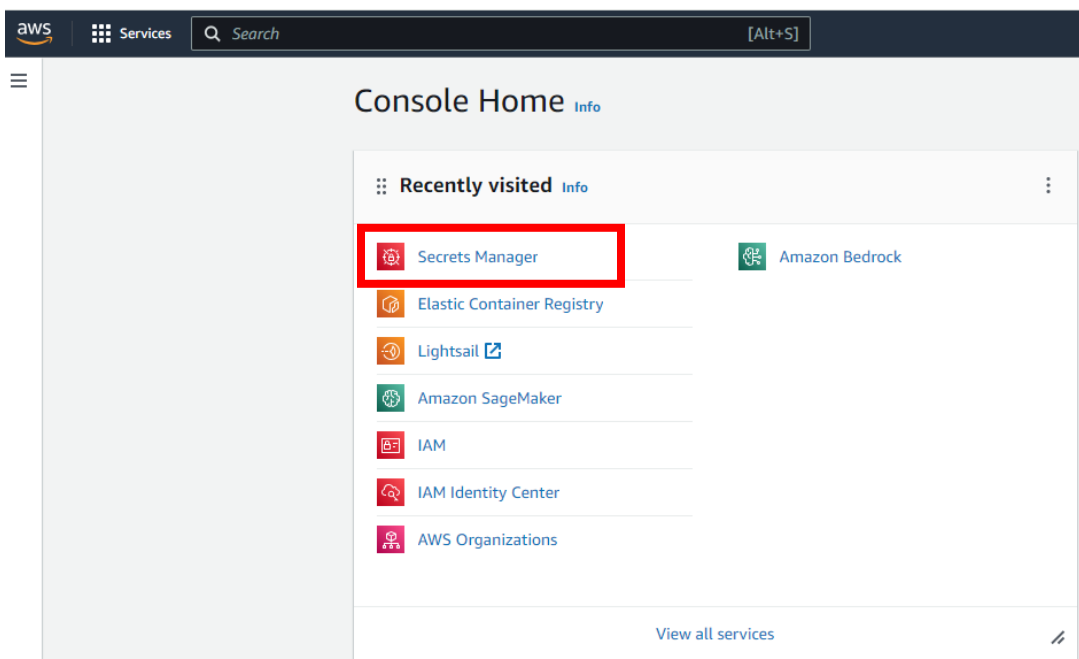
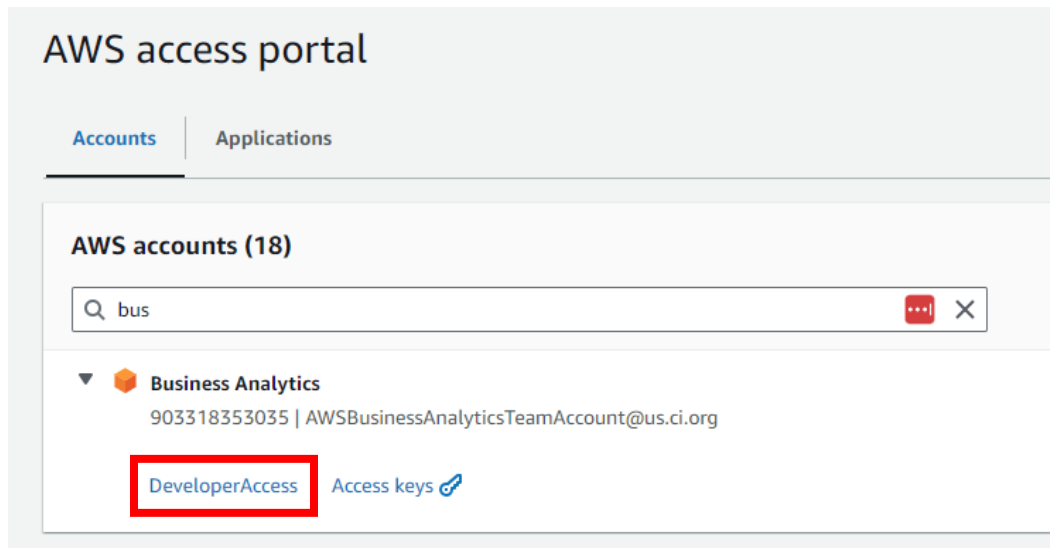
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## STEP 3 AWS PASSPHRASES STORAGE

All Passphrases are stored in AWS.

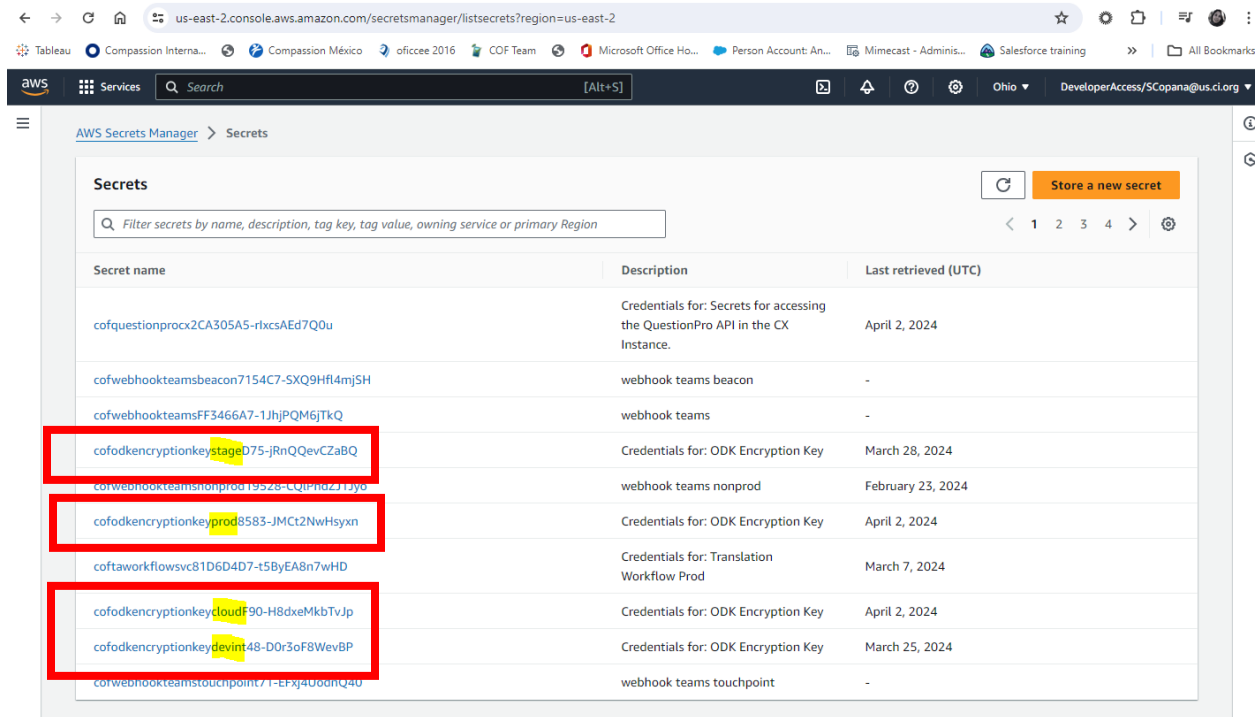
If you'd like to review existing passphrases, then follow these instructions.

Get Into AWS, with a Business Analytics account on Developer Access, on Secrets



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Finally, you can see all projects according to the environment as It Is shown on the following:



The screenshot shows the AWS Secrets Manager console for the us-east-2 region. A table lists various secrets, with three specific ODK encryption keys highlighted by red boxes:

Secret name	Description	Last retrieved (UTC)
cofquestionprocx2CA305A5-r1xcsAEd7Q0u	Credentials for: Secrets for accessing the QuestionPro API in the CX Instance.	April 2, 2024
cofwebhookteamsbeacon7154C7-SXQ9Hfl4mj5H	webhook teams beacon	-
cofwebhookteamsFF3466A7-1JhjPQM6jTkQ	webhook teams	-
<b>cofodkencryptionkeystageD75-jRnQQevCZaBQ</b>	Credentials for: ODK Encryption Key	March 28, 2024
cofwebhookteamsstidprod195z8-LQipHdzJ1jyo	webhook teams nonprod	February 23, 2024
<b>cofodkencryptionkeyprod8583-JMct2NwHsyxn</b>	Credentials for: ODK Encryption Key	April 2, 2024
coftaworkflowsvc81D6D4D7-t5ByEA8n7wHD	Credentials for: Translation Workflow Prod	March 7, 2024
<b>cofodkencryptionkeycloudF90-H8dxeMkbTvJp</b>	Credentials for: ODK Encryption Key	April 2, 2024
<b>cofodkencryptionkeydevint48-D0r3oF8WevBP</b>	Credentials for: ODK Encryption Key	March 25, 2024
cofwebhookteamsstidprod195z8-LQipHdzJ1jyo	webhook teams touchpoint	-

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