# Migrate FDM to cdFMC Using FMT within CDO

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## Introduction

This document describes how to migrate a Firepower Device Manager (FDM) to Cloud-Delivered FMC (cdFMC) using Firepower Migration Tool (FMT) in CDO.

## Prerequisites

### Requirements

- Firepower Device Manager (FDM) 7.2+
- Cloud-delivered Firewall Management Center (cdFMC)
- Firepower Migration Tool (FMT) included in CDO

### Components Used

This document was created based on the aforementioned requirements.

- Firepower Device Manager (FDM) on version 7.4.1
- Cloud-delivered Firewall Management Center (cdFMC)
- Cloud Defense Orchestrator (CDO)

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

## Background Information

CDO admin users can perform migrations of their devices to cdFMC when the devices are on version 7.2 or higher. In the migration described in this document, cdFMC is already enabled on CDO Tenant.

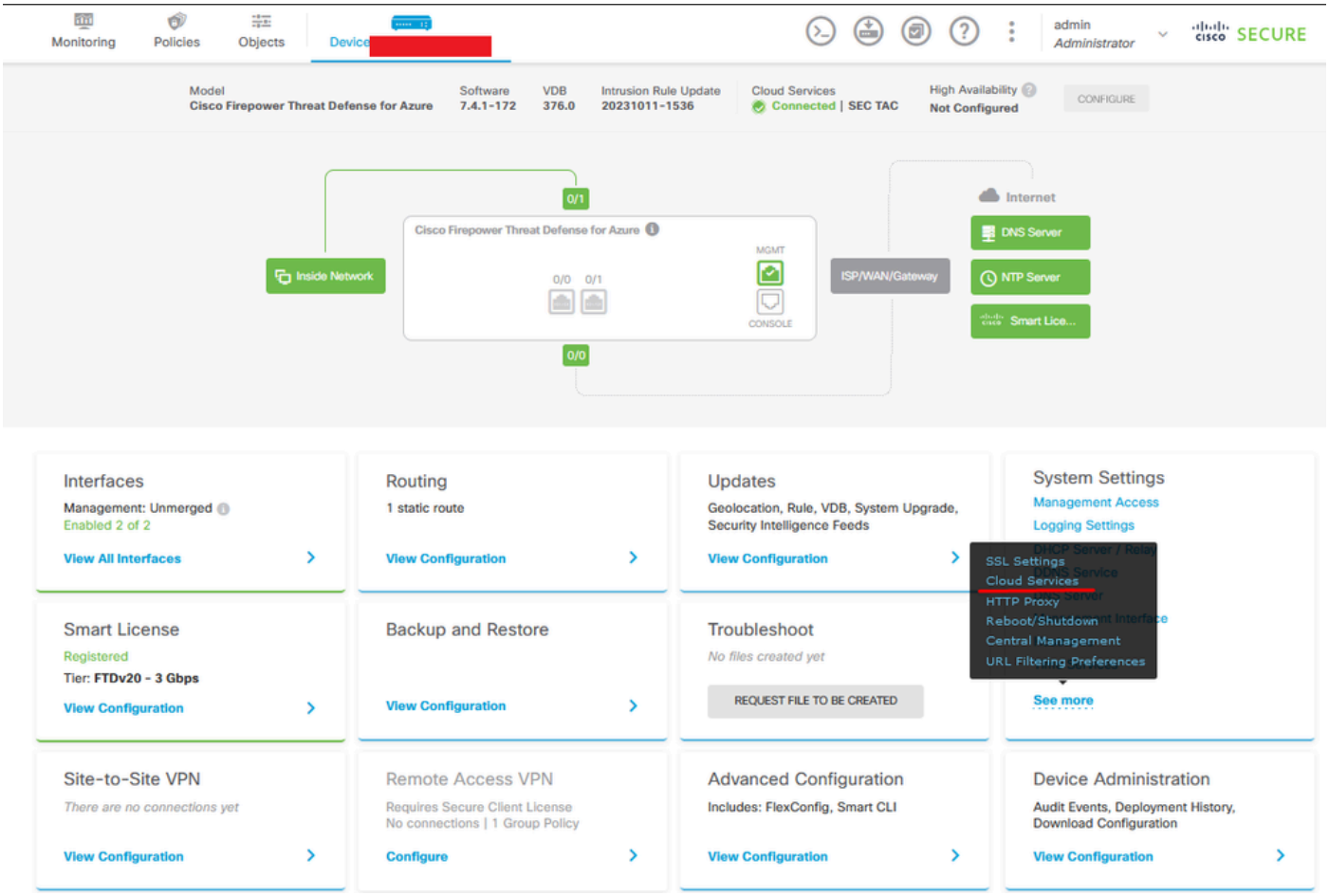
## Configure

1.- Enable Cisco Cloud Services on FDM

To begin the migration, it is necessary to have the FDM device with no pending deployments and register to

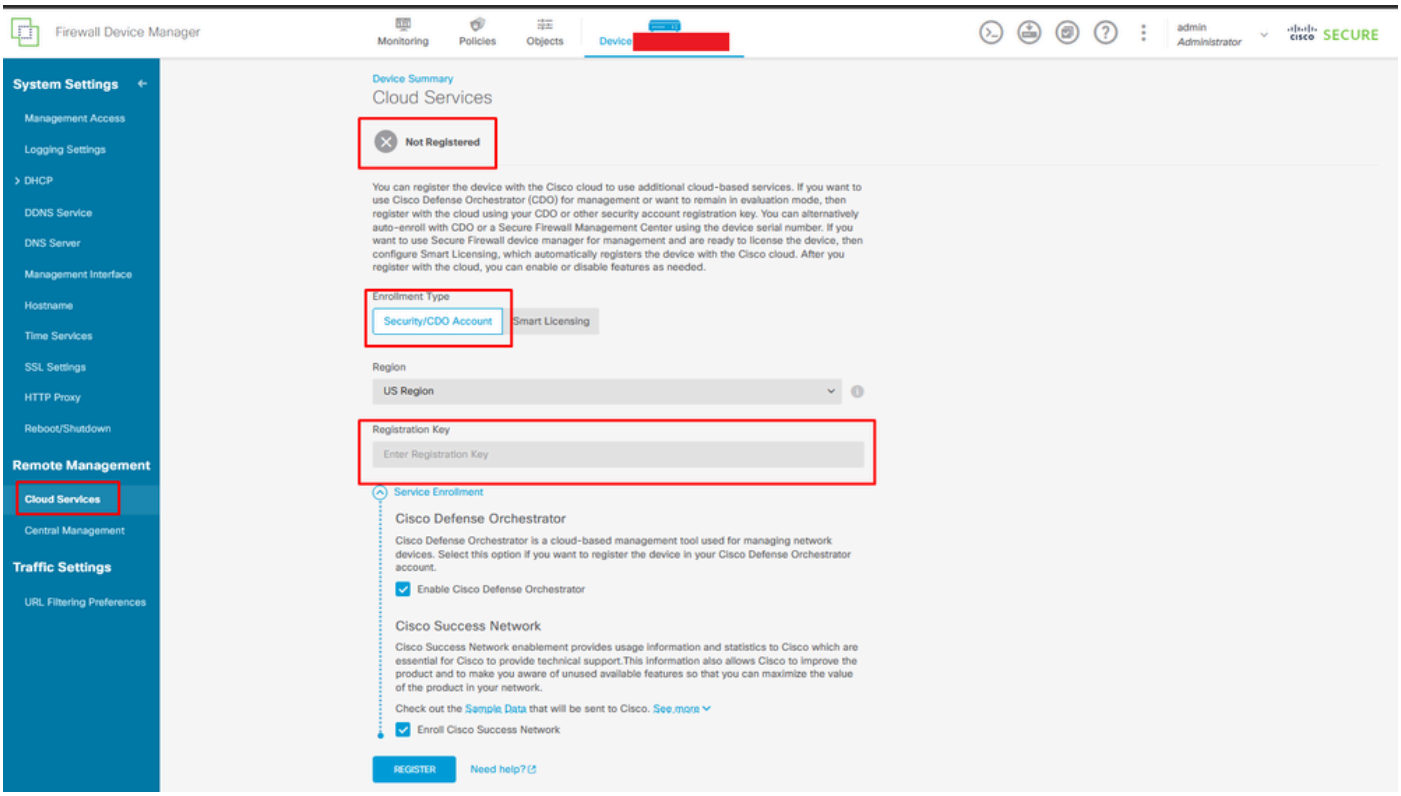
**Cloud Services**. In order to register to Cloud Services navigate to **System Settings > See More > Cloud Services.**

Within the **Cloud Services** section, you find device is not registered, therefore, it is necessary to perform the enrollment with the type **Security/CDO Account**. You must configure a Registration Key, then Register.




*Registration Cloud Services*

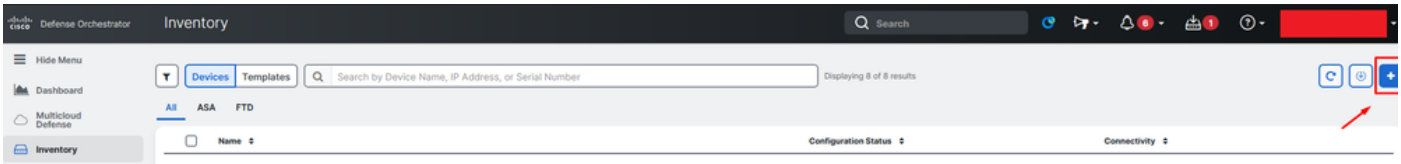
Over Cloud Services it is shown that is not registered. Select the CDO Account enrollment type and provide the Registration Key from CDO.




*Registration to Cloud Services*

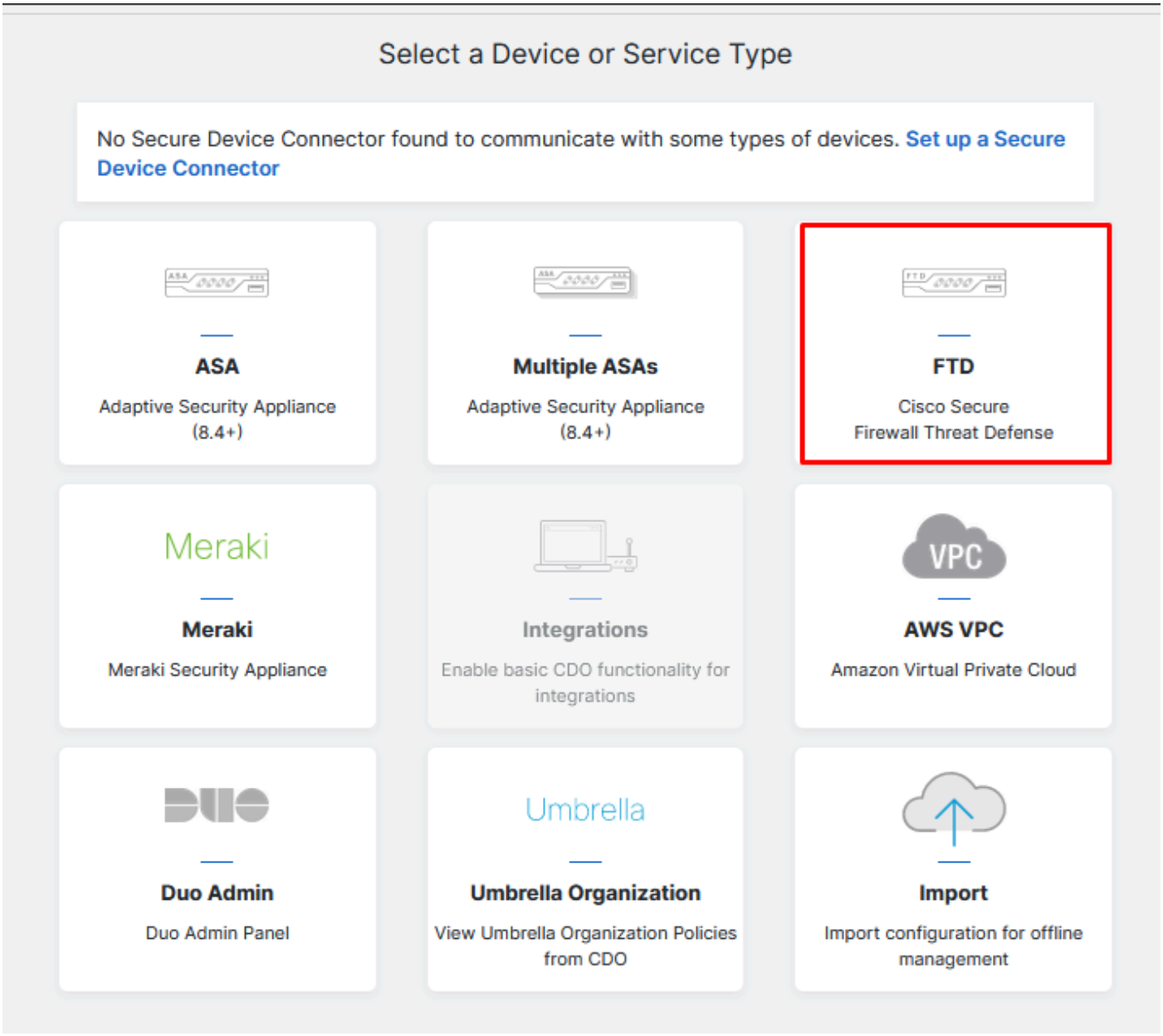
The registration key can be found inside CDO. Navigate to CDO, go to **Inventory > Add symbol.**

A menu appears to select the type of device you have. Select the FTD option. You must have the FDM option enabled; otherwise, the corresponding migration cannot be performed. The type of registration uses **Use Registration Key**. In this option, the Registration Key appears in step number 3, which we must copy and paste into the FDM.



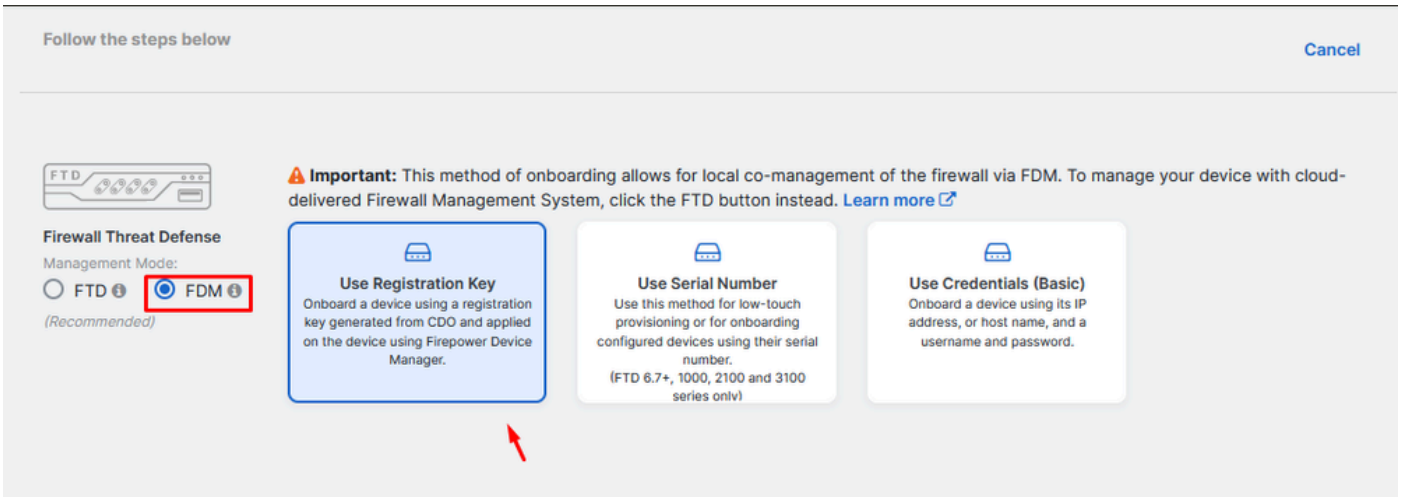

*Onboard FDM, add option*

A menu appears to Select a Device or Service Type.



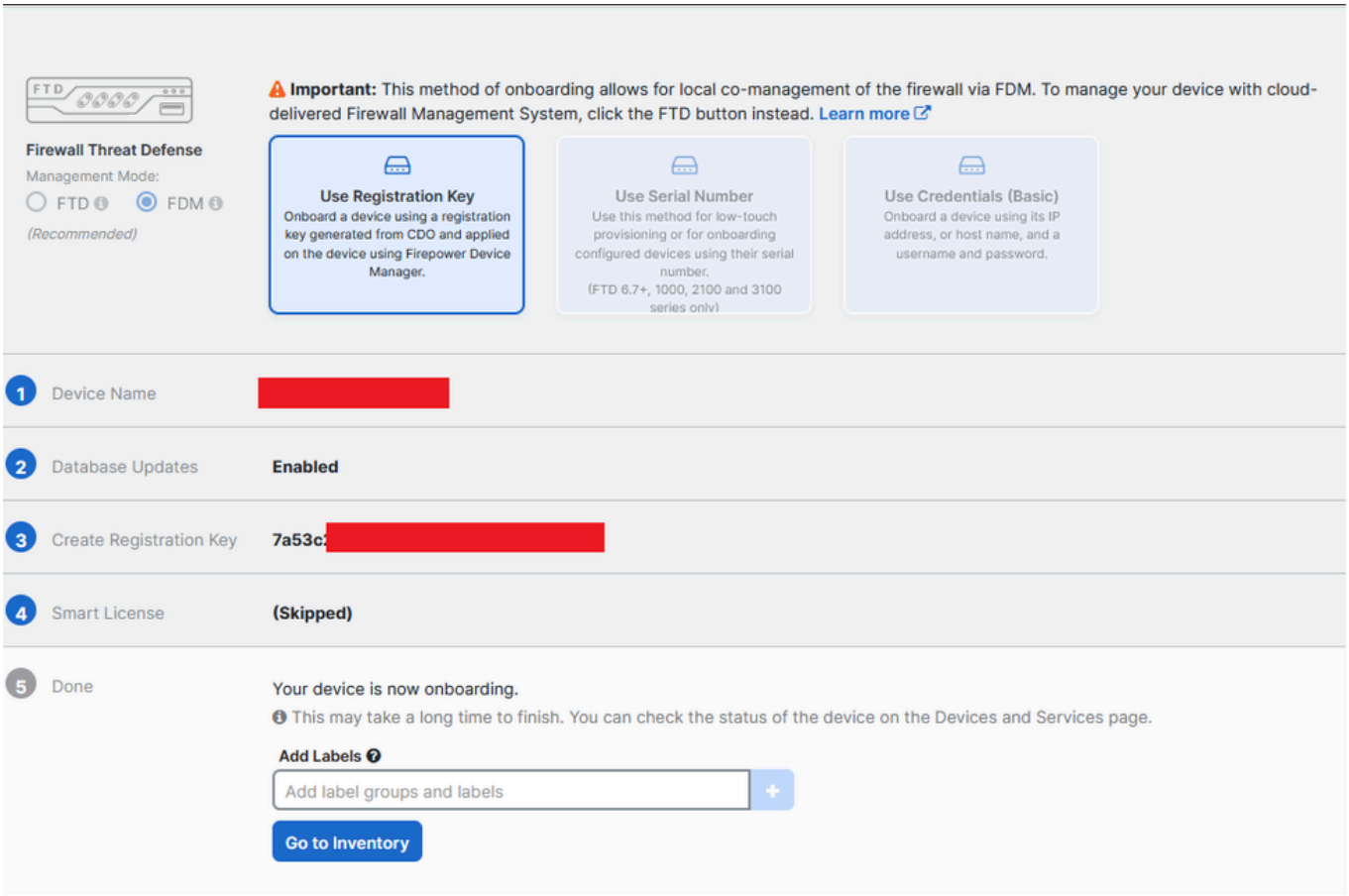

*Select Device or Service Type*

For this document, Select Registration Key has been selected.




*Registration Type*

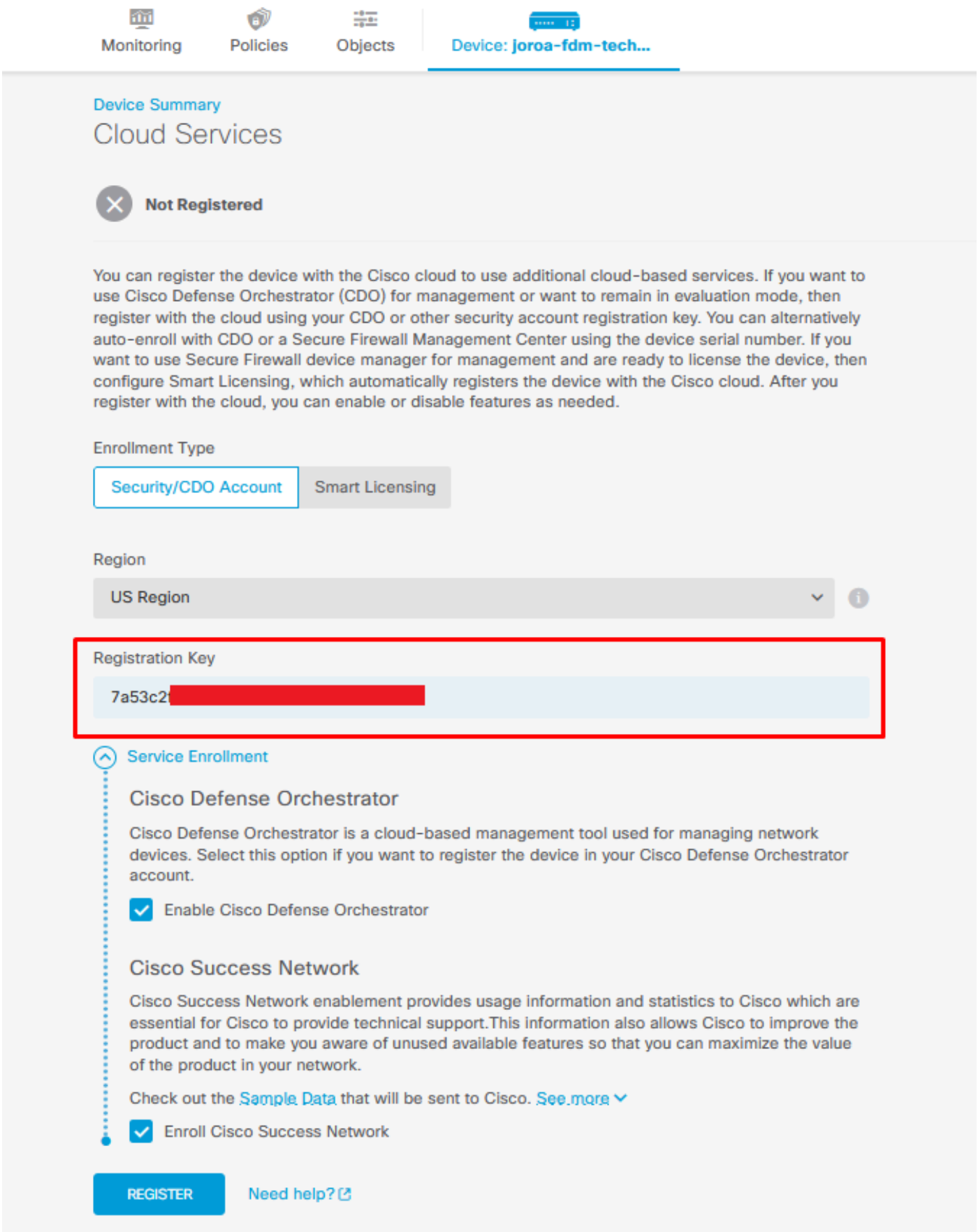
Here, it shows the Registration Key needed on the previous step.




*Registration Process*

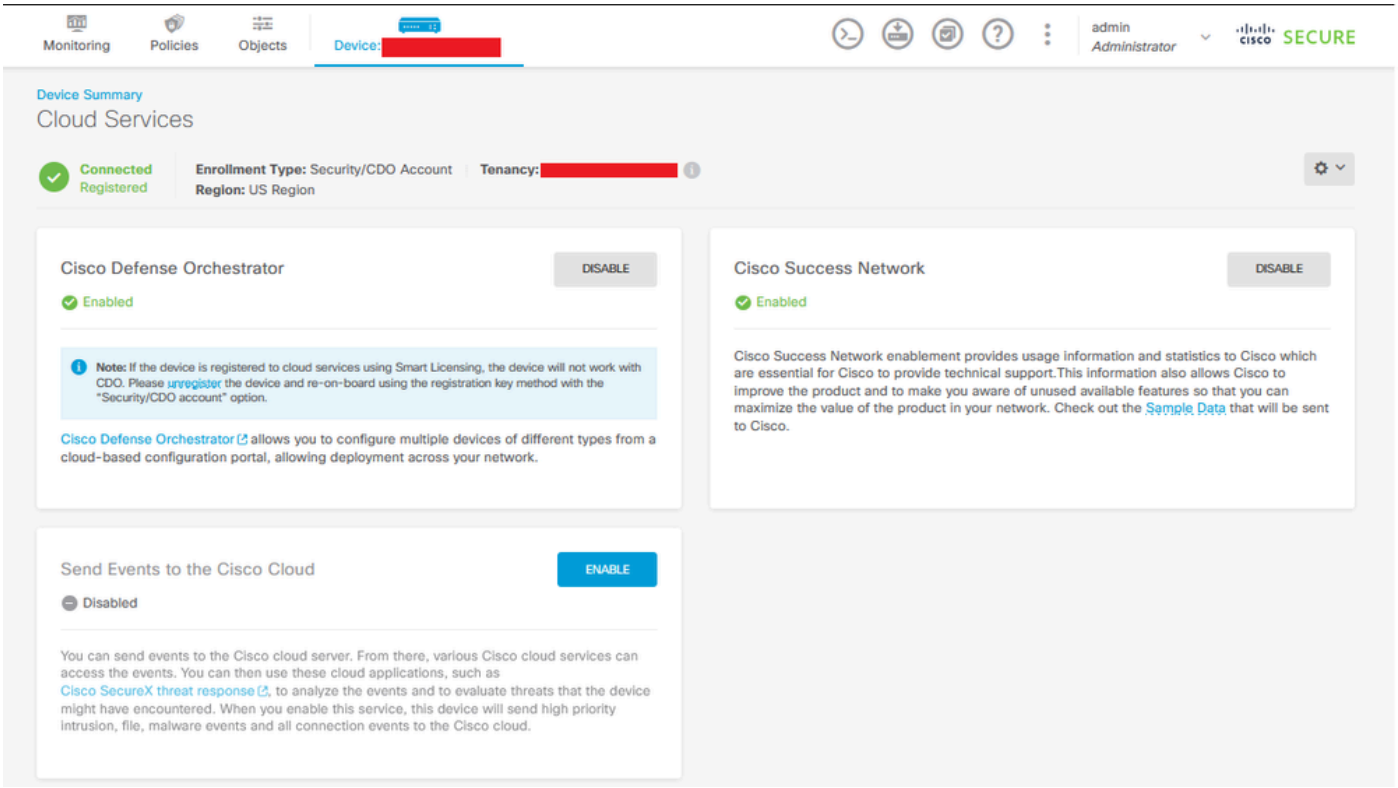
Once the **Registration Key** has been obtained, copy and paste it into the FDM and click **Register**. After registering the FDM within Cloud Services, it is displayed as **Enabled** as shown in the image.

The Smart License has been skipped as the device is going to be registered once the device is up and running.




*FDM Registration*

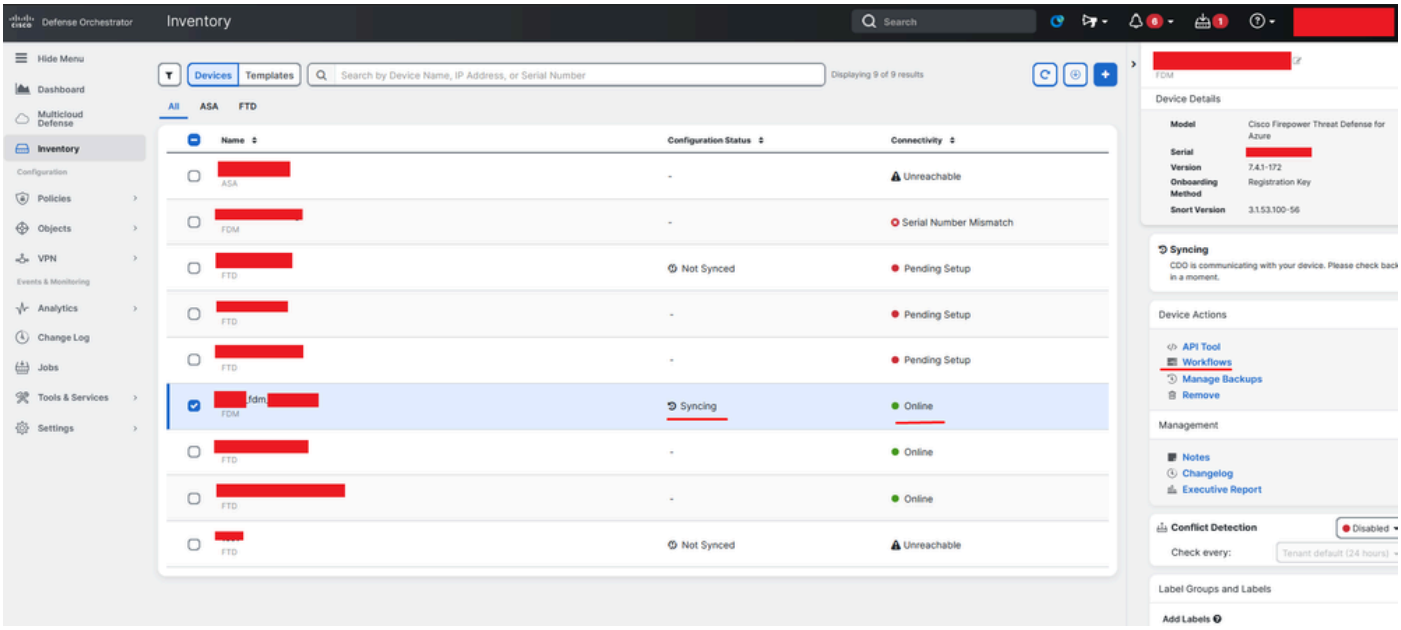
When registering FDM, it shows the Tenancy, Cloud services connected, and Registered.




*FDM Registration Complete*

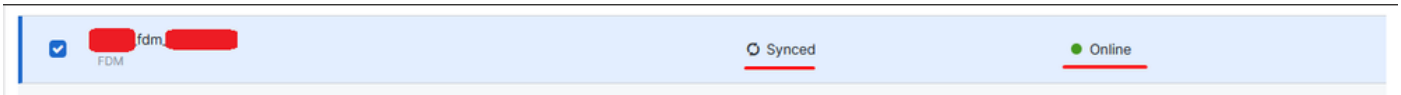
Within CDO, in the Inventory menu, the FDM can be found in the process of being on-boarded and synchronizing. The progress and flow of this synchronization can be reviewed within the **Workflows** section.

Once this process is completed, it appears be displayed as Synced and Online.



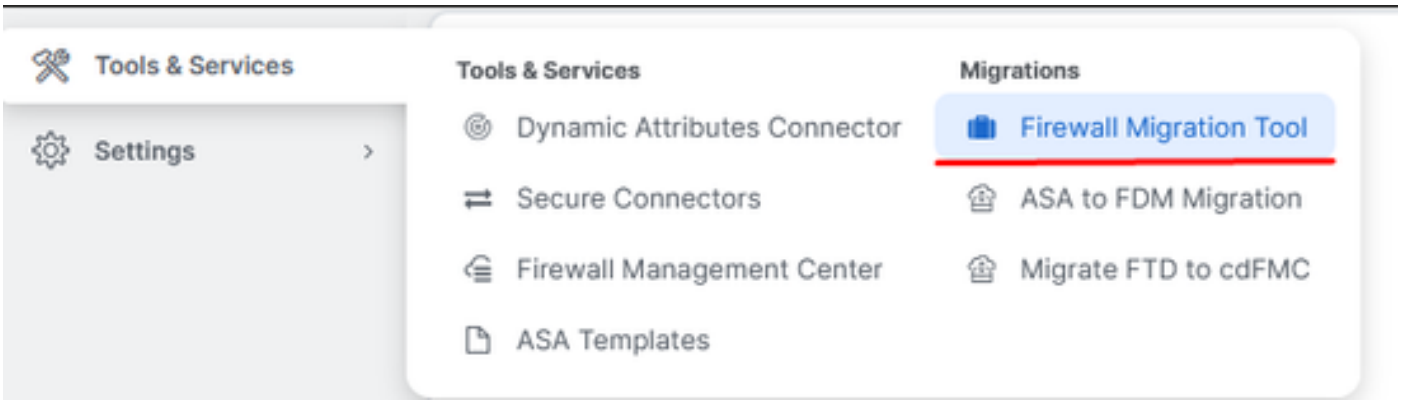

*CDO Inventory FDM Onboarded*

When the devices have been synchronized, it shows like Online and Synced.

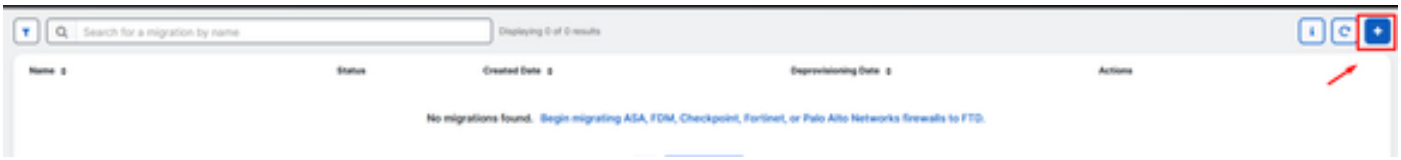


*FDM Onboarded*

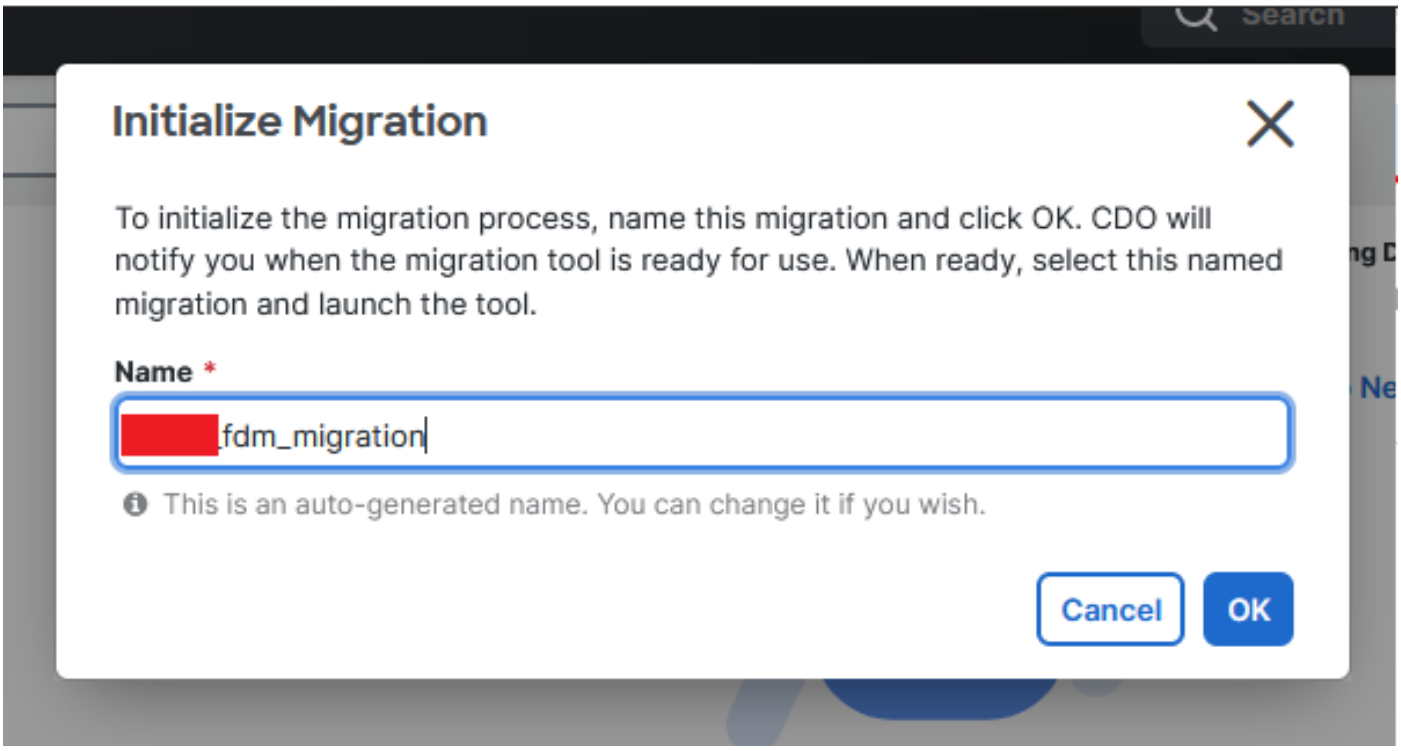
When the FDM has been successfully on-boarded to CDO, we must log out of the FDM. After logging out of the FDM, navigate within CDO to **Tools & Services > Migration > Firewall Migration Tool**.




Click the **Add** symbol, and a random name appears, indicating that the name needs to be renamed to initiate the migration process.

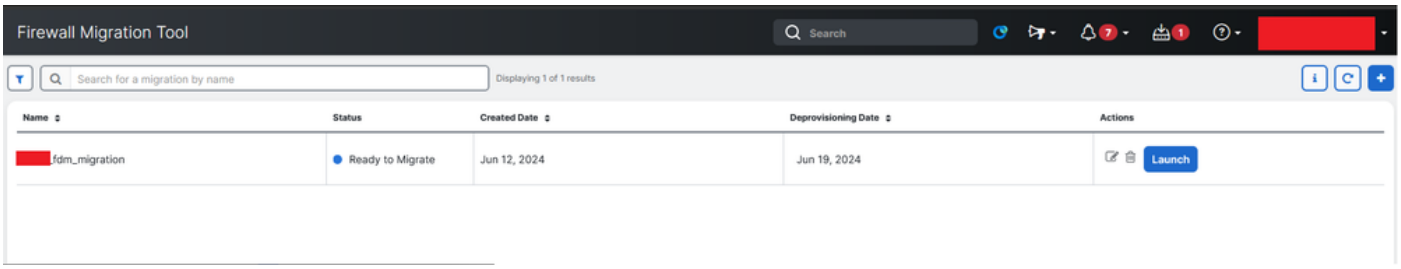


After renaming, click on **Launch** to begin the migration.



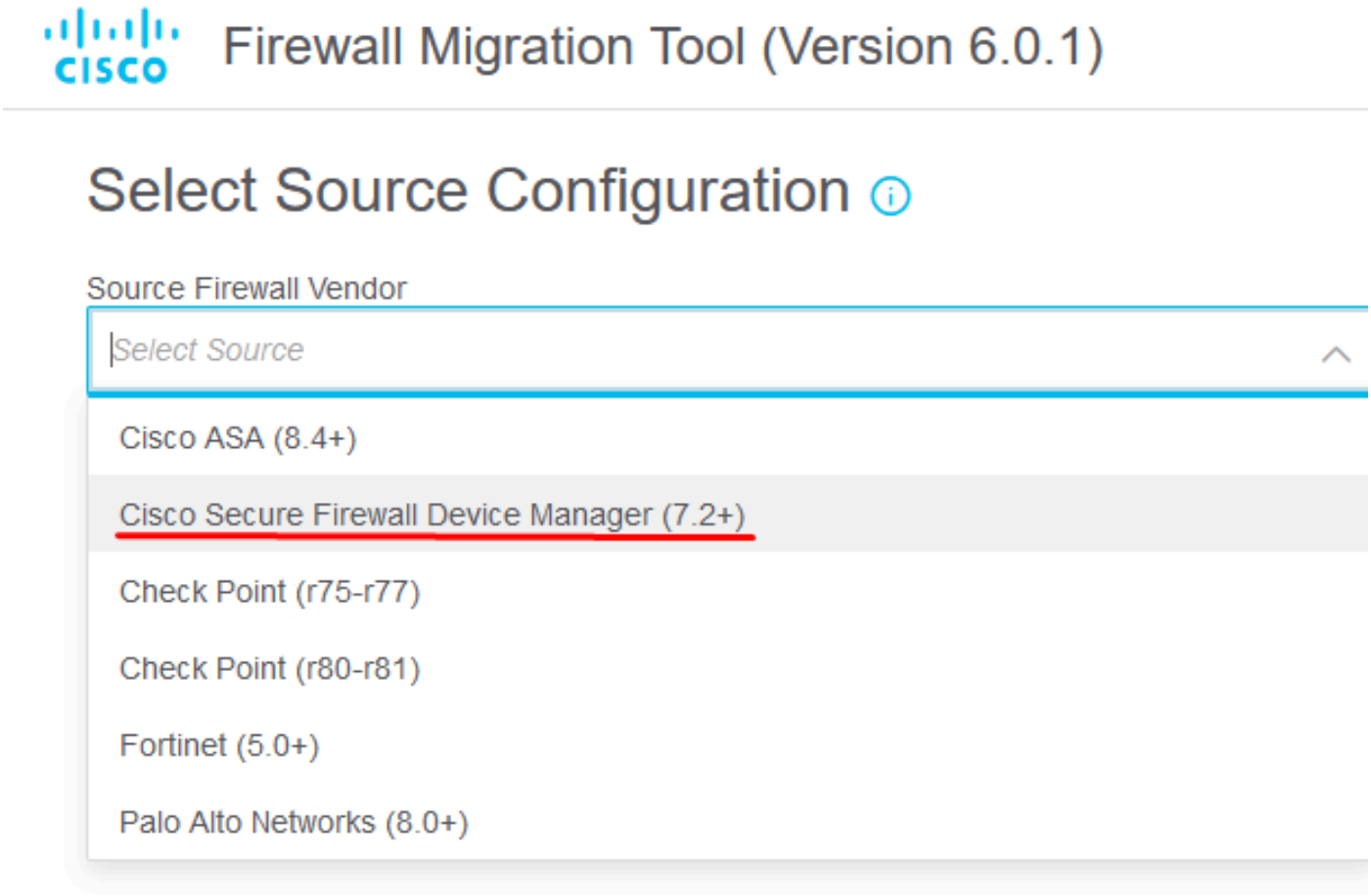

*Initialize Migration*

Click **Launch** to start the migration configuration.




*Migration Launch process*

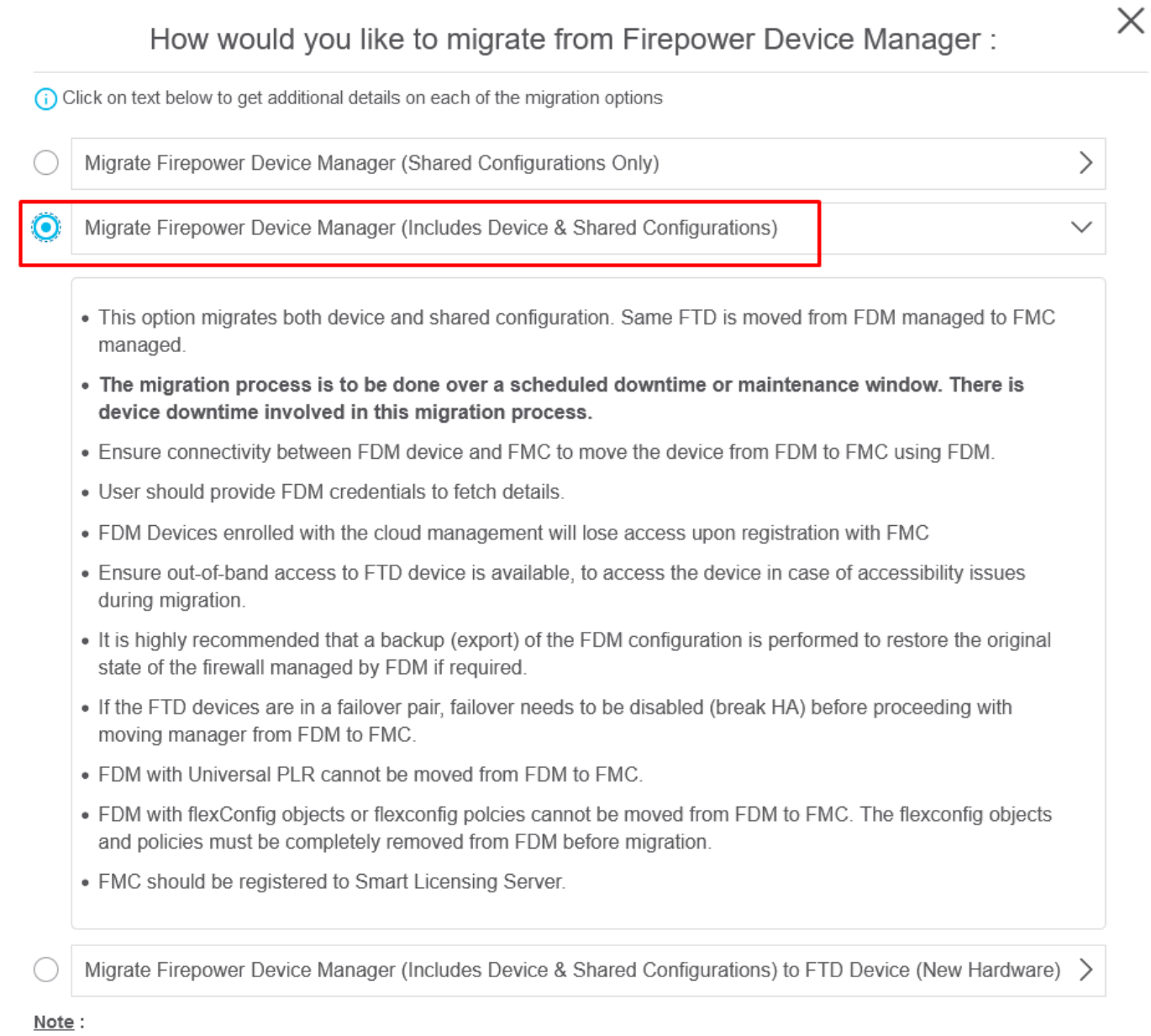
After clicking **Launch**, a window is going to open for the migration process where the option Cisco Secure Firewall Device Manager (7.2+) is selected. As previously mentioned, this option is enabled starting from version 7.2.




*FMT Select Source Configuration*

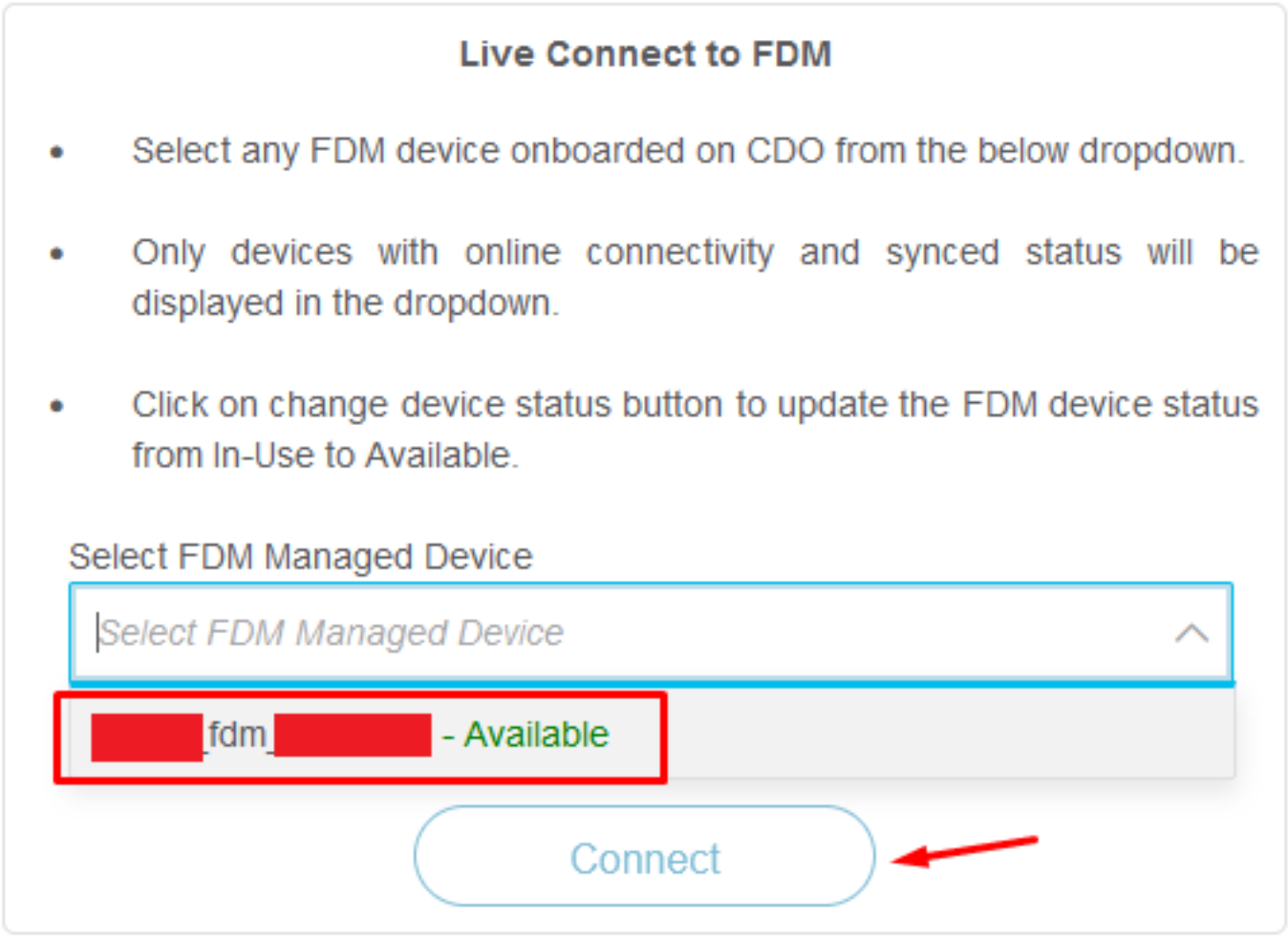
Once selected, three different migration options are presented: Shared Configuration Only, Includes Device & Shared Configurations, and Includes Device & Shared Configurations to FTD New Hardware.

For this instance, the second option, Migrate Firepower Device Manager (Includes Device & Shared Configuration), is performed.

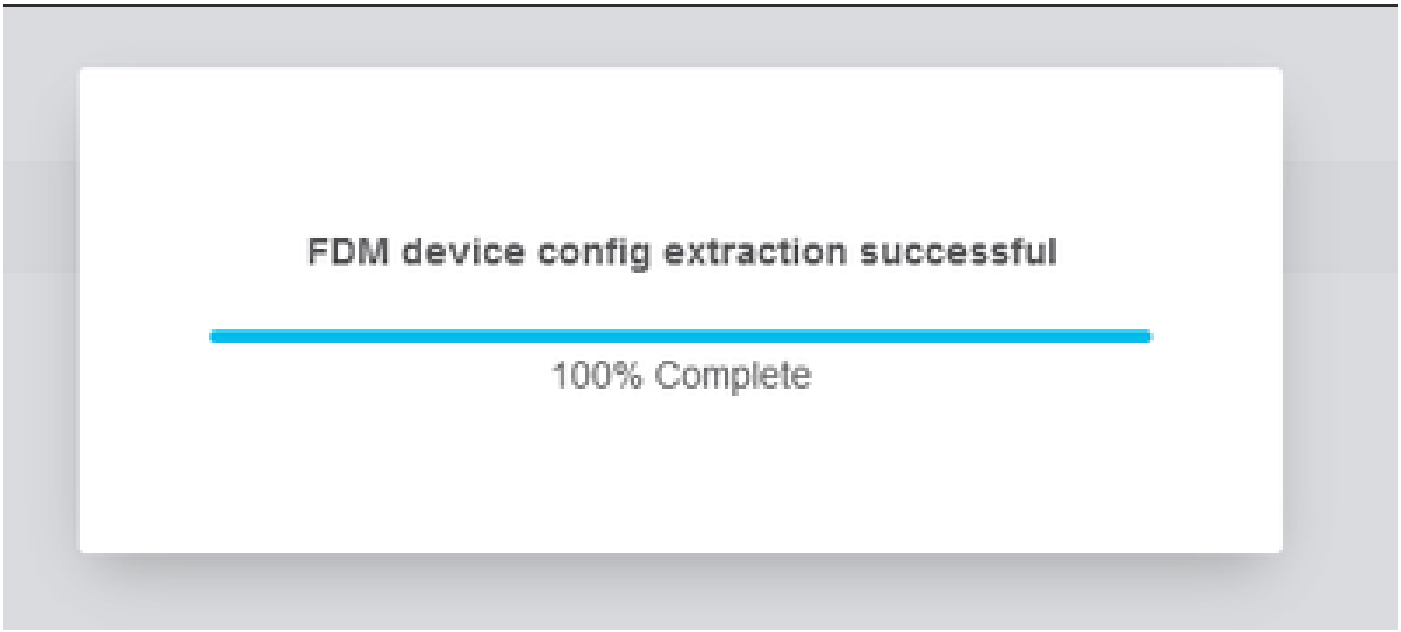



*Migration Options*

Once the migration method has been selected, proceed to select the device from the list provided.

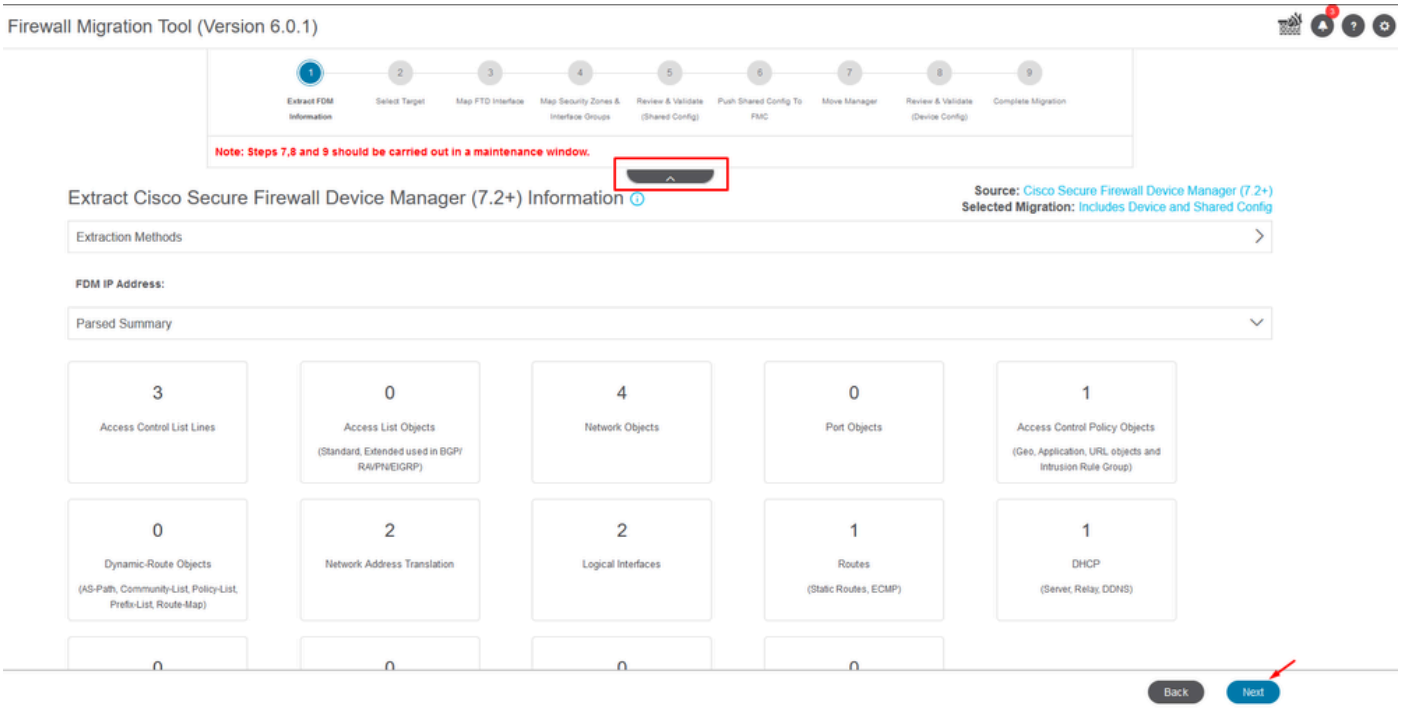



*FDM Device Selection*



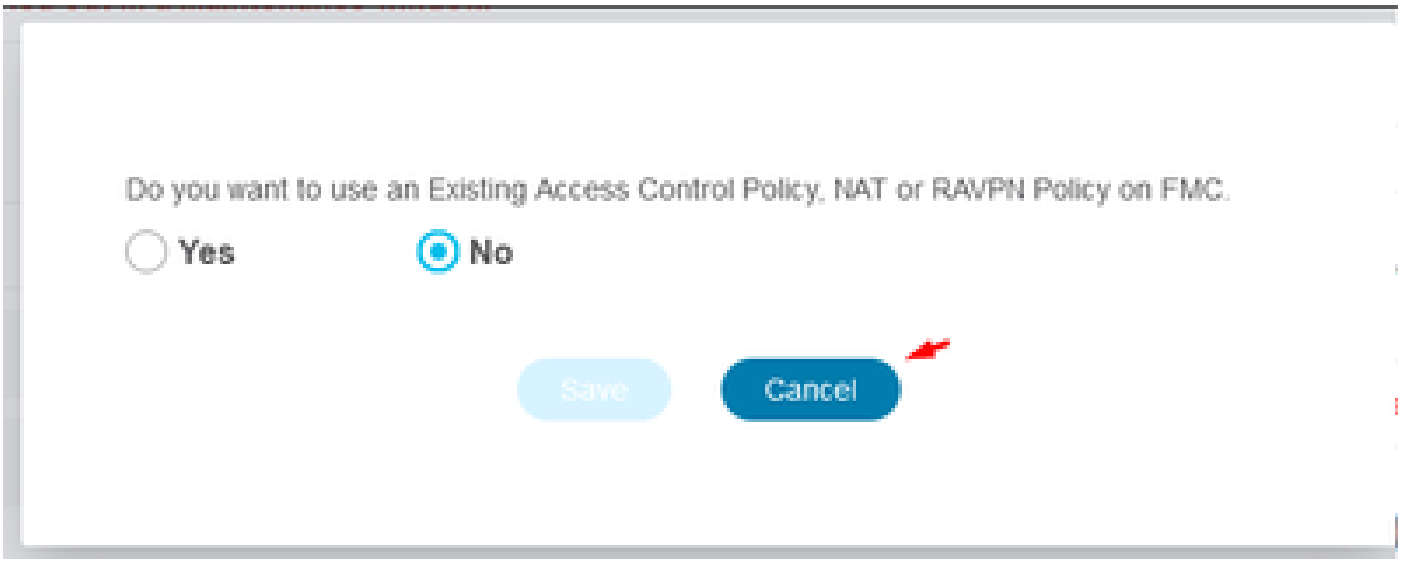

*Config Extraction Completed*

It is recommended to open the tab located at the top to review and understand at which step we are when the device has been selected.



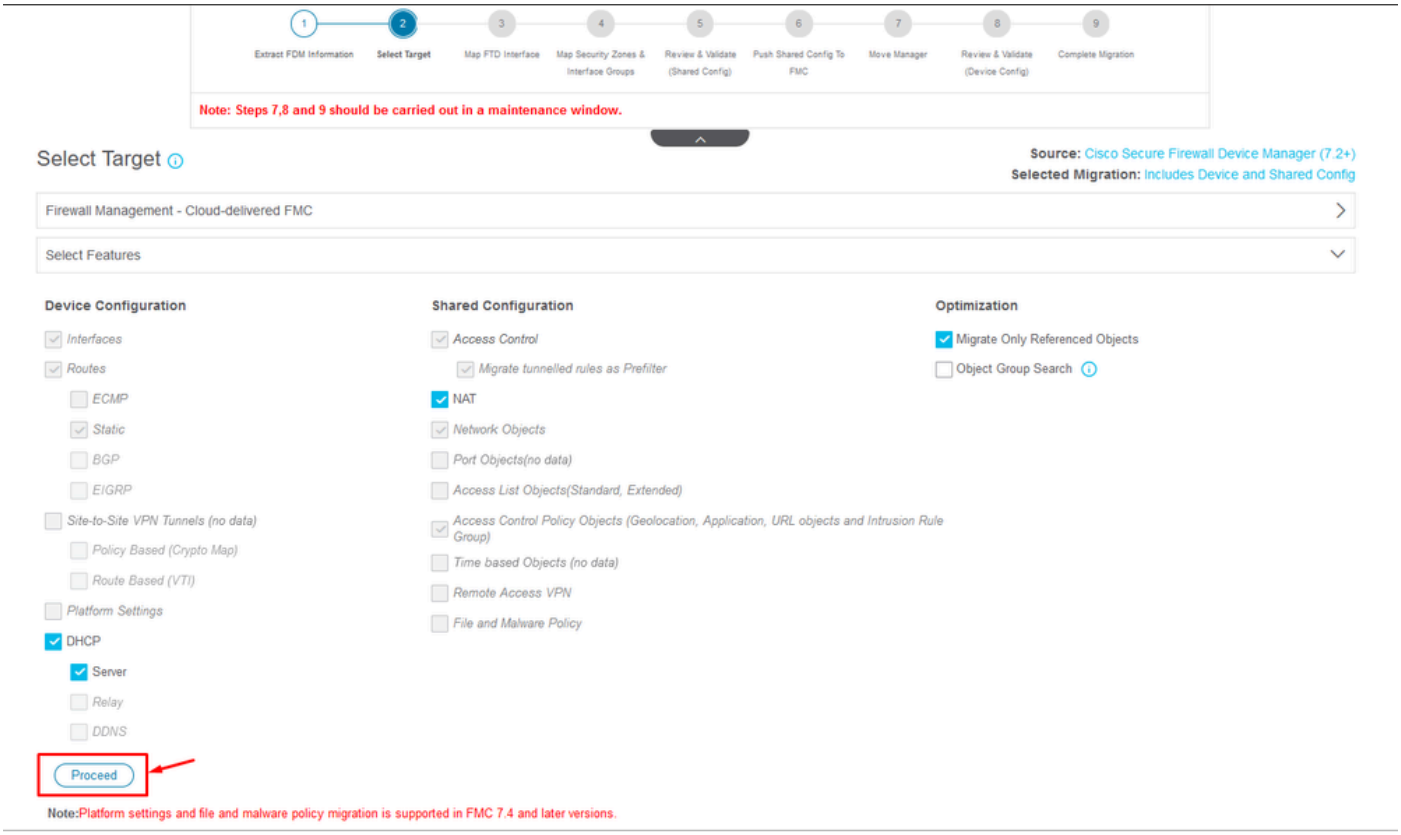

*Steps for Migration Process*

Being a new migration, select **Cancel** when prompted with the option "*Do you want to use an Existing Access Control Policy, NAT or RAVPN Policy on FMC?"*



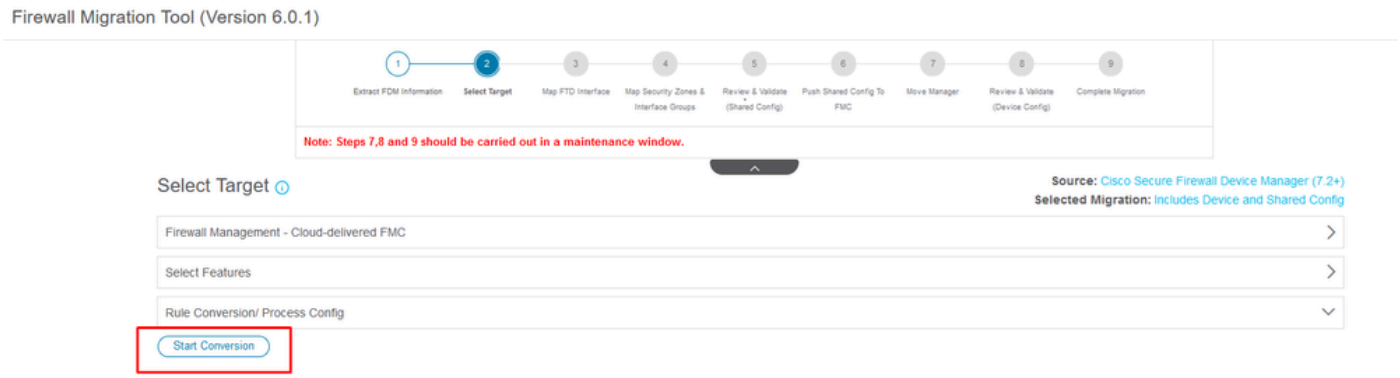

*Cancel option for Existing Configuration*

Afterwards, there are going to be options to select the Features to be migrated as shown in the image. Click **Proceed**.



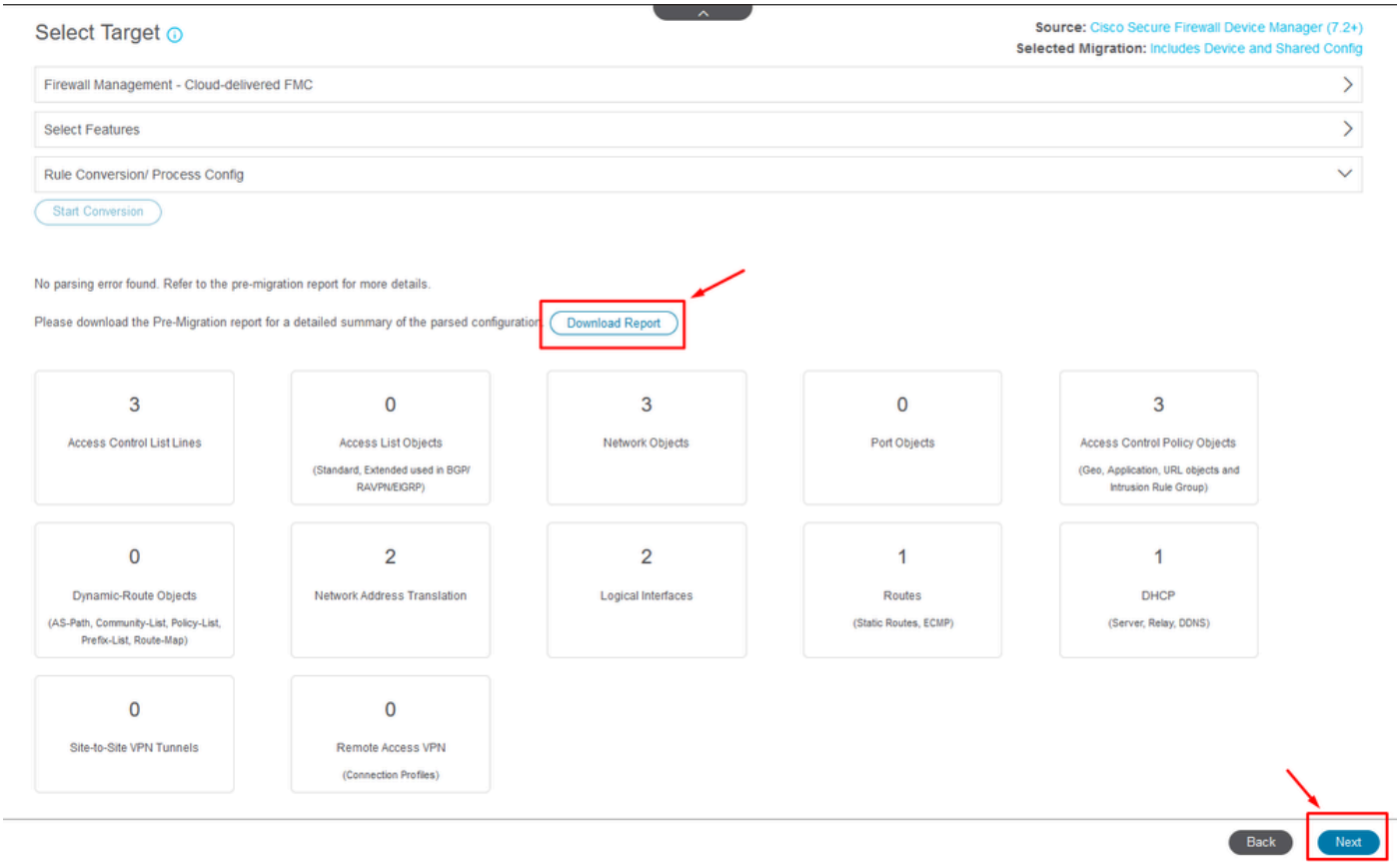

*Features to be selected*

Then **Start Conversion**.



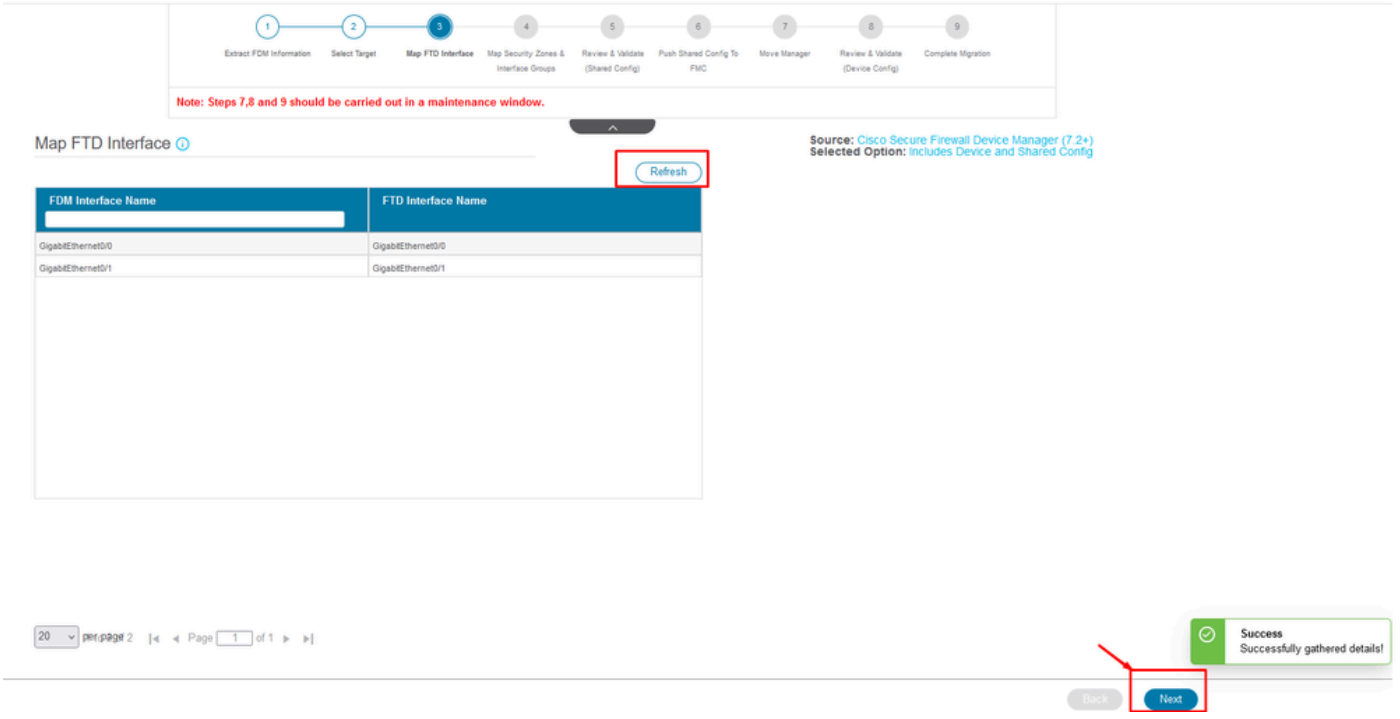

*Start conversion.*

Once the parsing process has concluded, two options can be used: **Download** the document and continue with the migration by clicking **Next.**



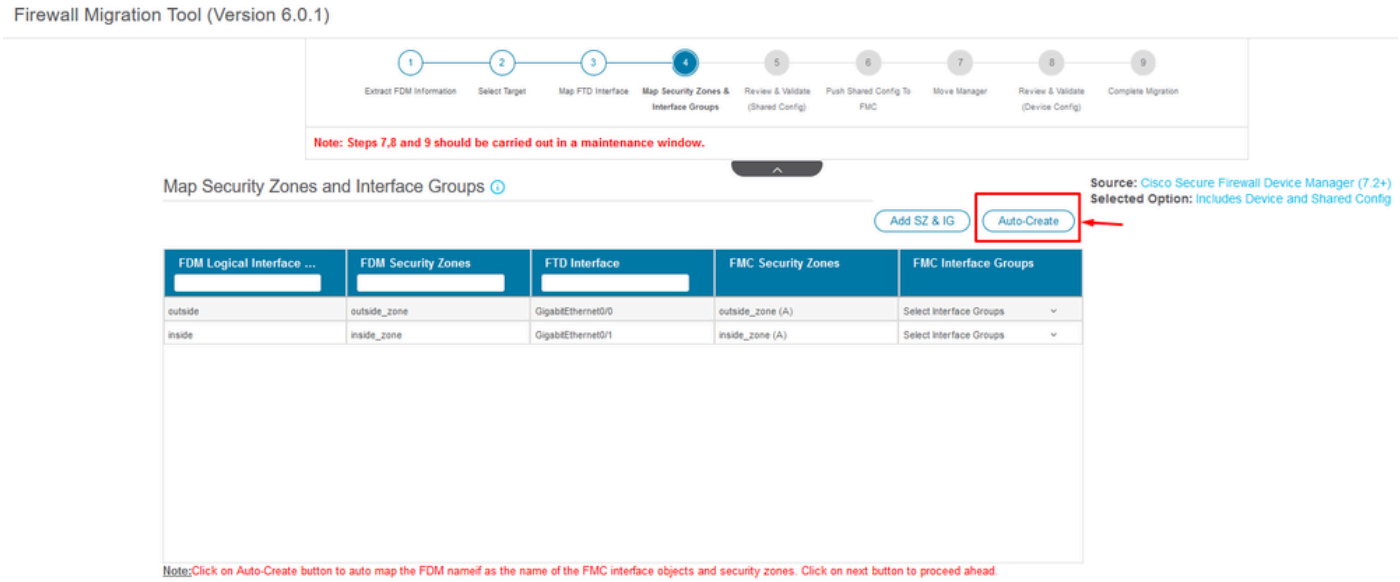

*Download Report.*

The device interfaces are set to be displayed. As a best practice, it is advisable to click **Refresh** to update the interfaces. Once validated, you can proceed by clicking **Next.**



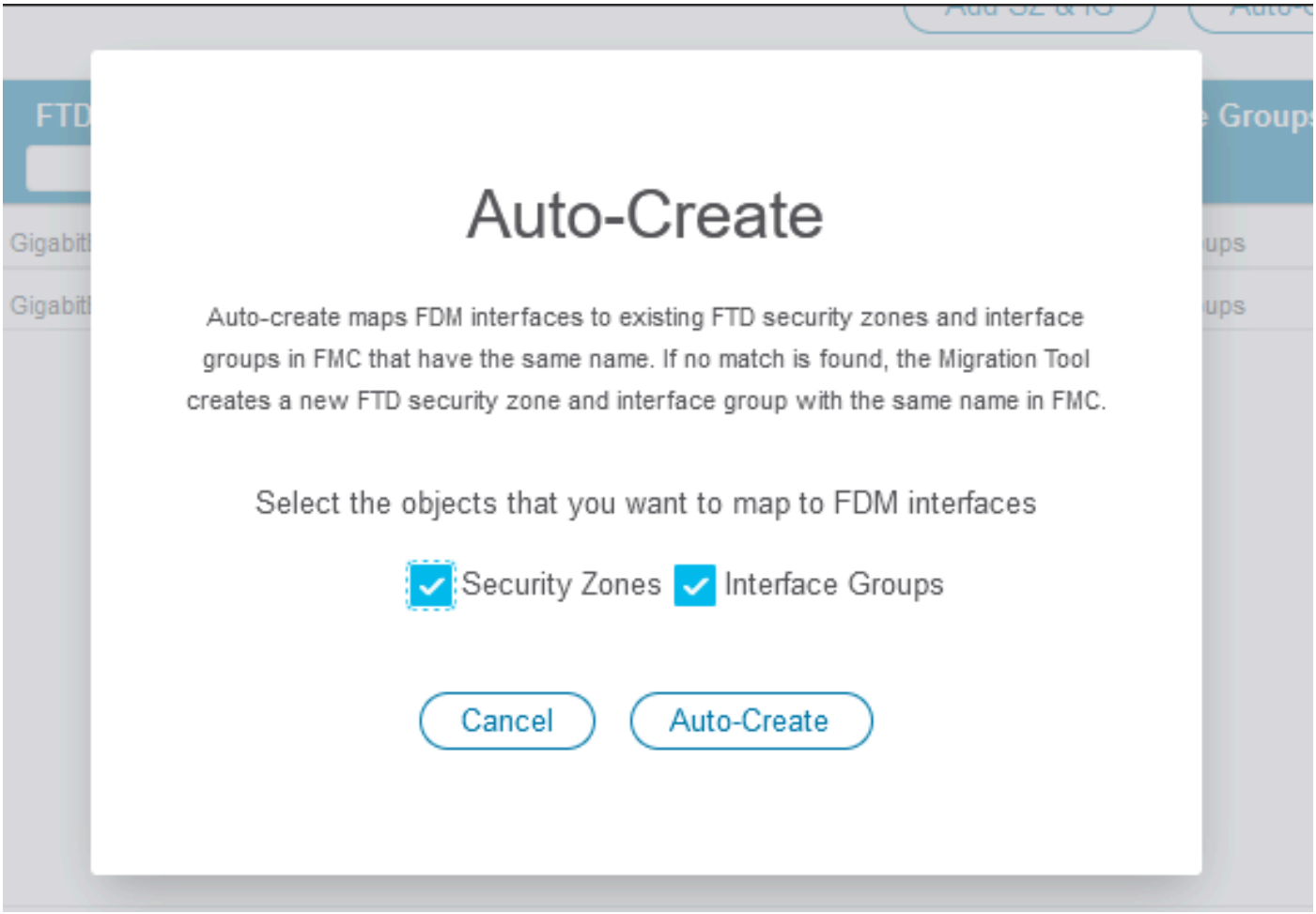

*Interfaces Displayed*

Navigate to the **Security Zones** and **Interface Groups** section, where you need to add manually with Add SZ & IG. For this example, **Auto-Create** has been chosen. This helps to automatically generate the interfaces within the FMC to which you are migrating. After finish, click on the **Next** button.



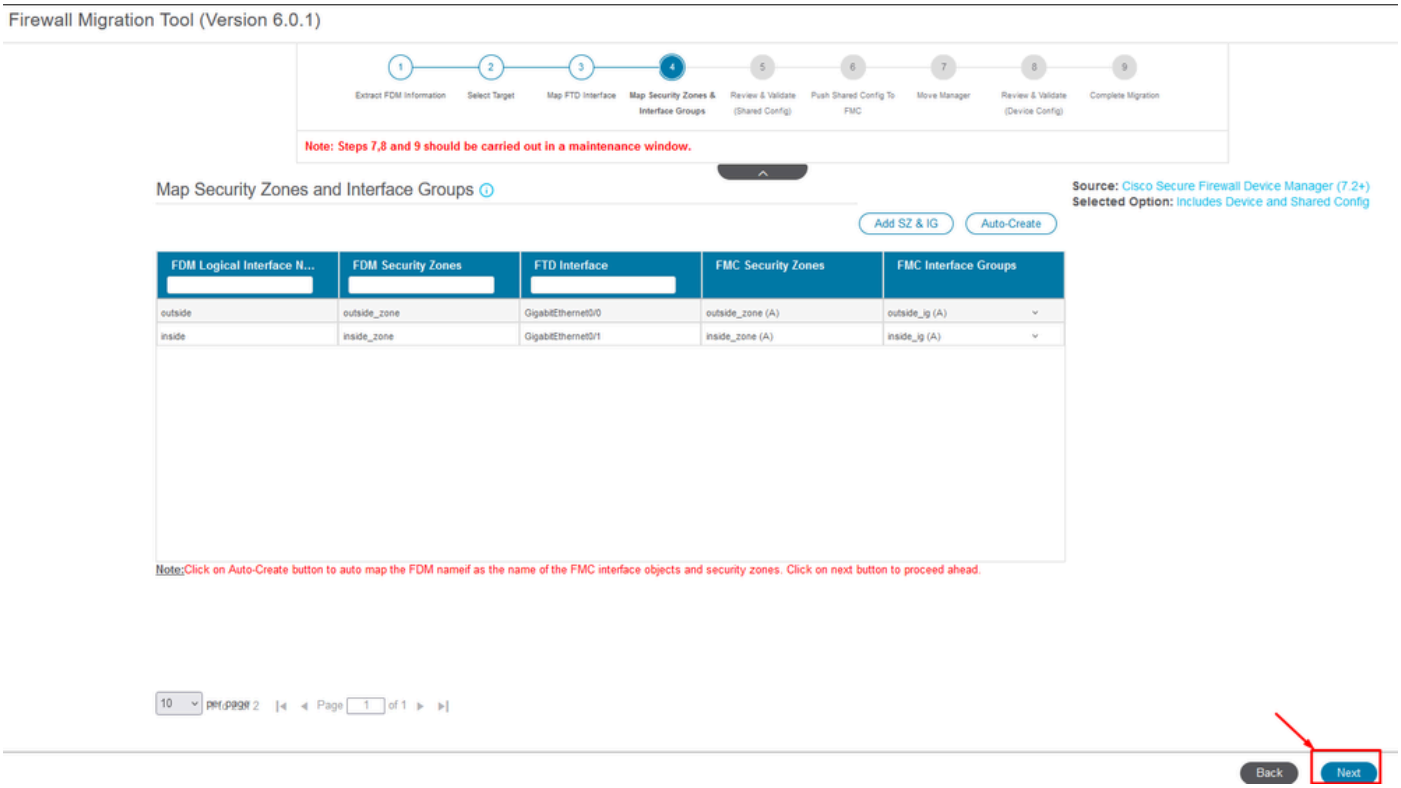

*Security Zones and Interface Groups*

Auto-Create option maps FDM interfaces to existing FTD Security Zones and interfaces groups in FMC that have the same name.



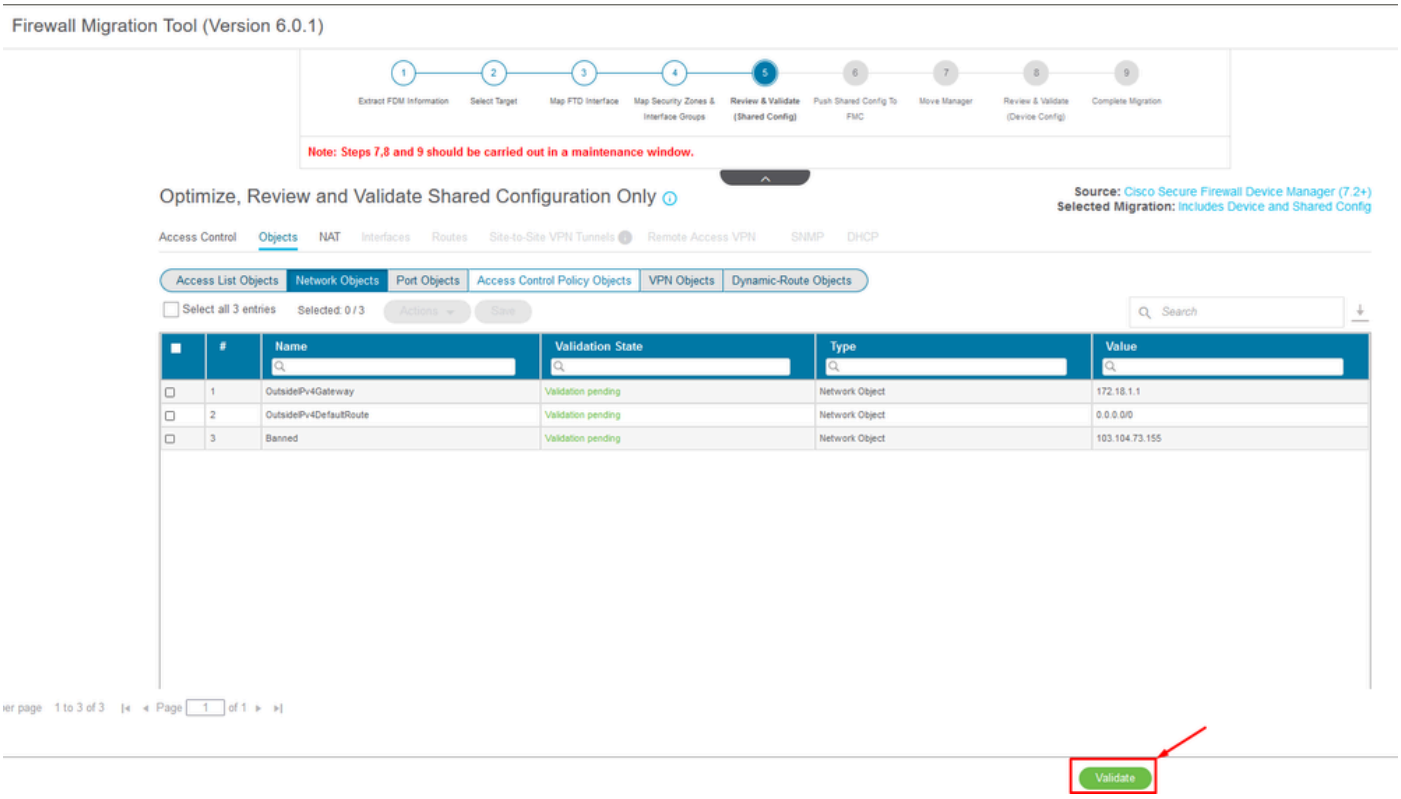

*Auto-Create Option.*

Then select **Next**.



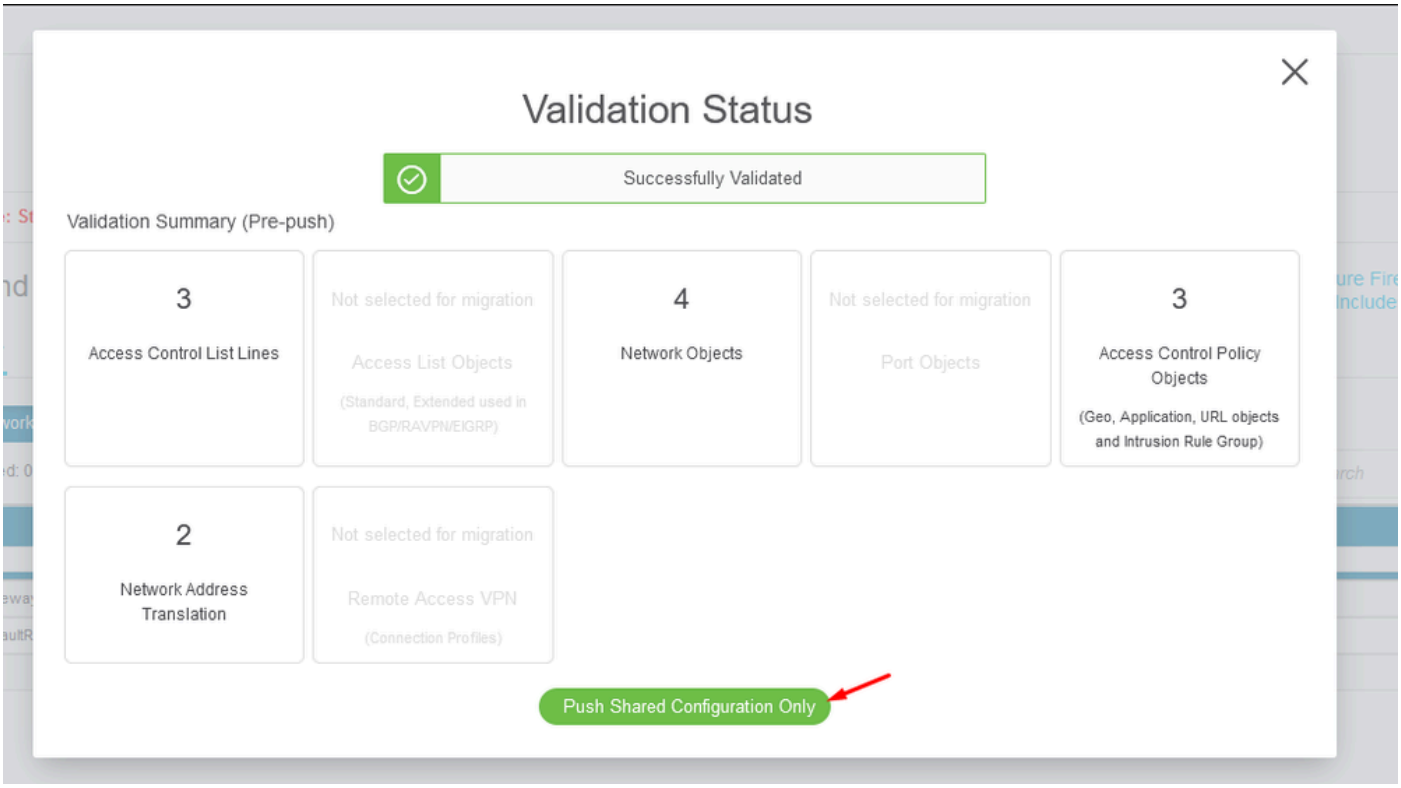

*After Auto-Creation option.*

In step 5, as shown in the top bar, take the time to examine the Access Control Policies (ACP), Objects, and NAT rules. Continue by carefully reviewing each item and then click on **Validate** to confirm that there are no issues with names or configurations.



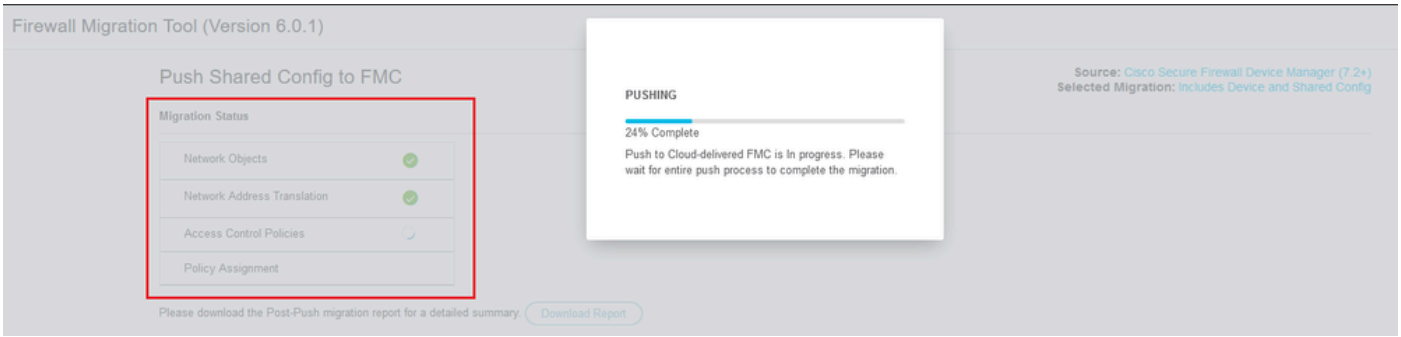

*Access Control, Objects and NAT Configurations*

Then **Push Shared Configuration Only**



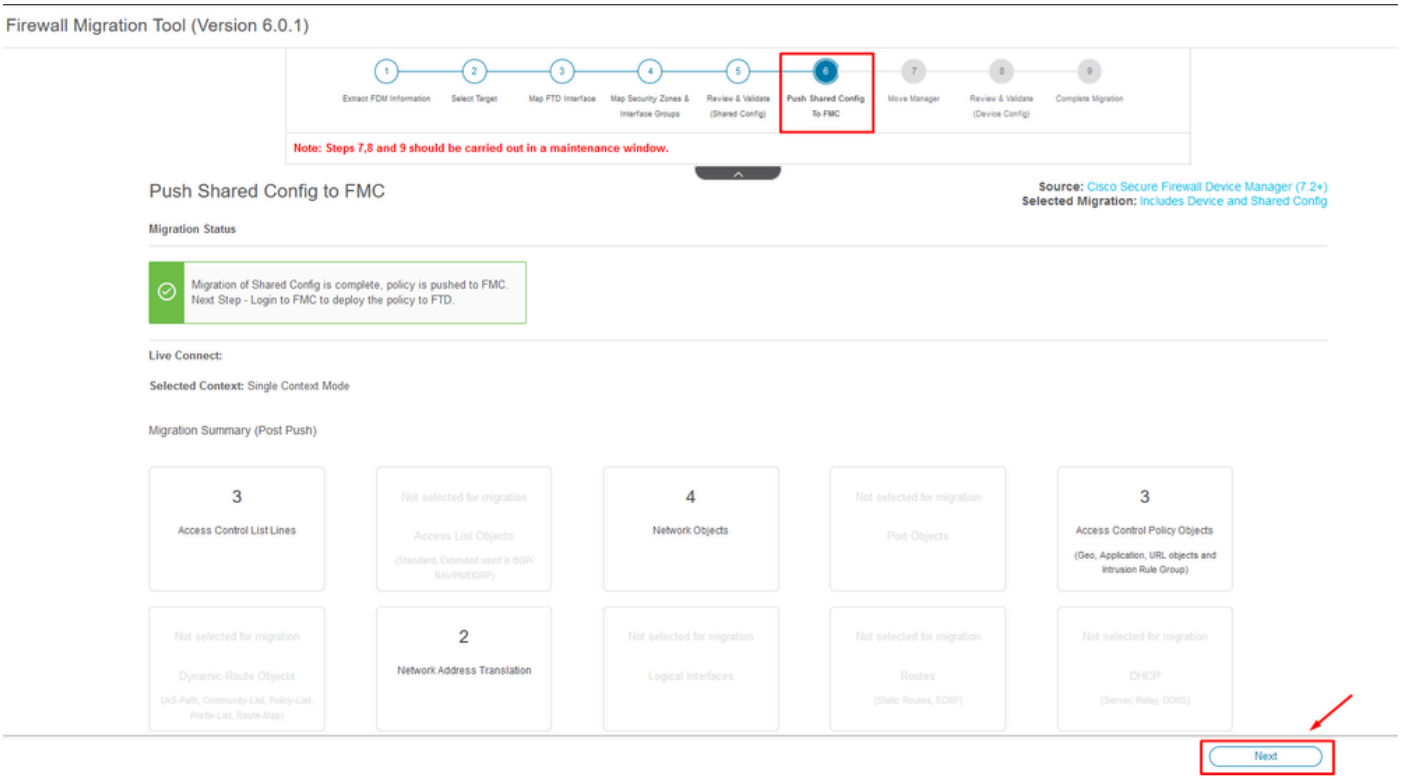

*Push Shared Configuration Only*

The percentage of completion and the specific task being worked on can be observed.




*Pushing Percentage*

After completion of step 5, proceed to step 6, as displayed in the top bar, where the **Push Shared Configuration to FMC** takes place. At this, select the **Next** button to advance.

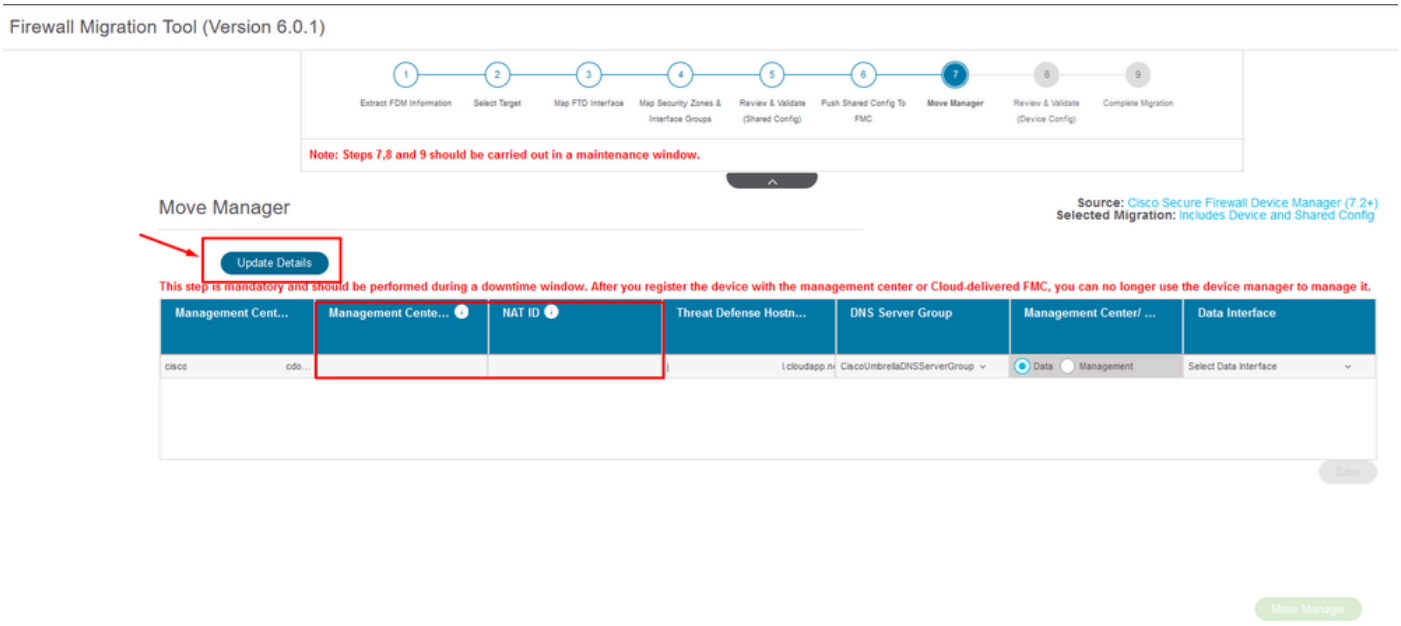



*Push Shared Config to FMC Completed*

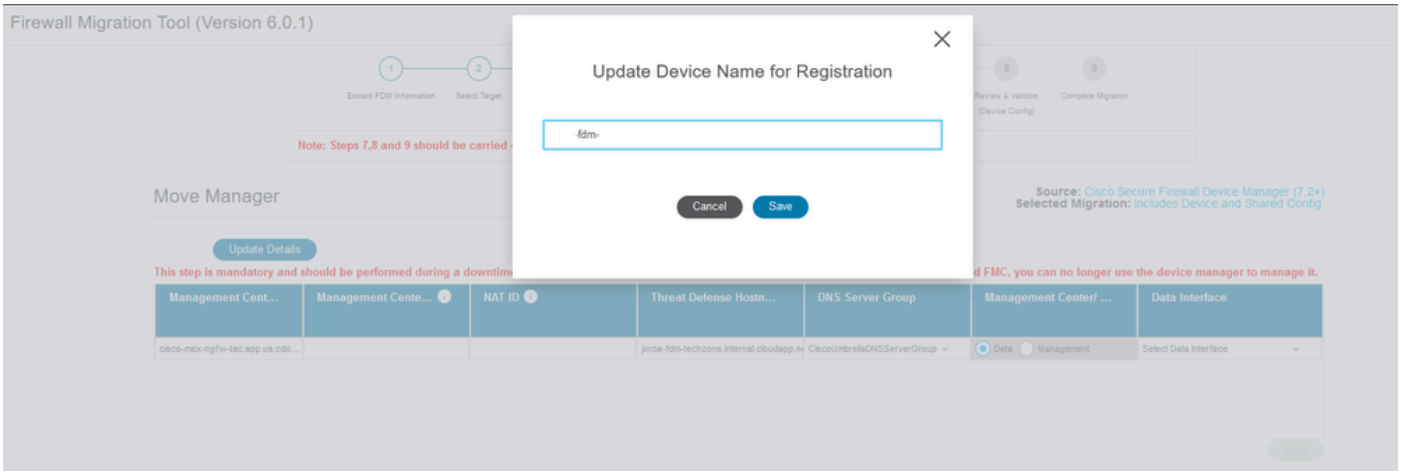
This option triggers a confirmation message, prompting the continuation of the manager migration.


*Confirm Move Manager*

Proceeding with the manager migration requires having the Management Center ID and NAT ID at hand, which is essential. These IDs are retrievable by selecting **Update Details.** This action initiates a pop-up window where the desired name for the FDM representation within the cdFMC is entered, followed by saving the alterations.

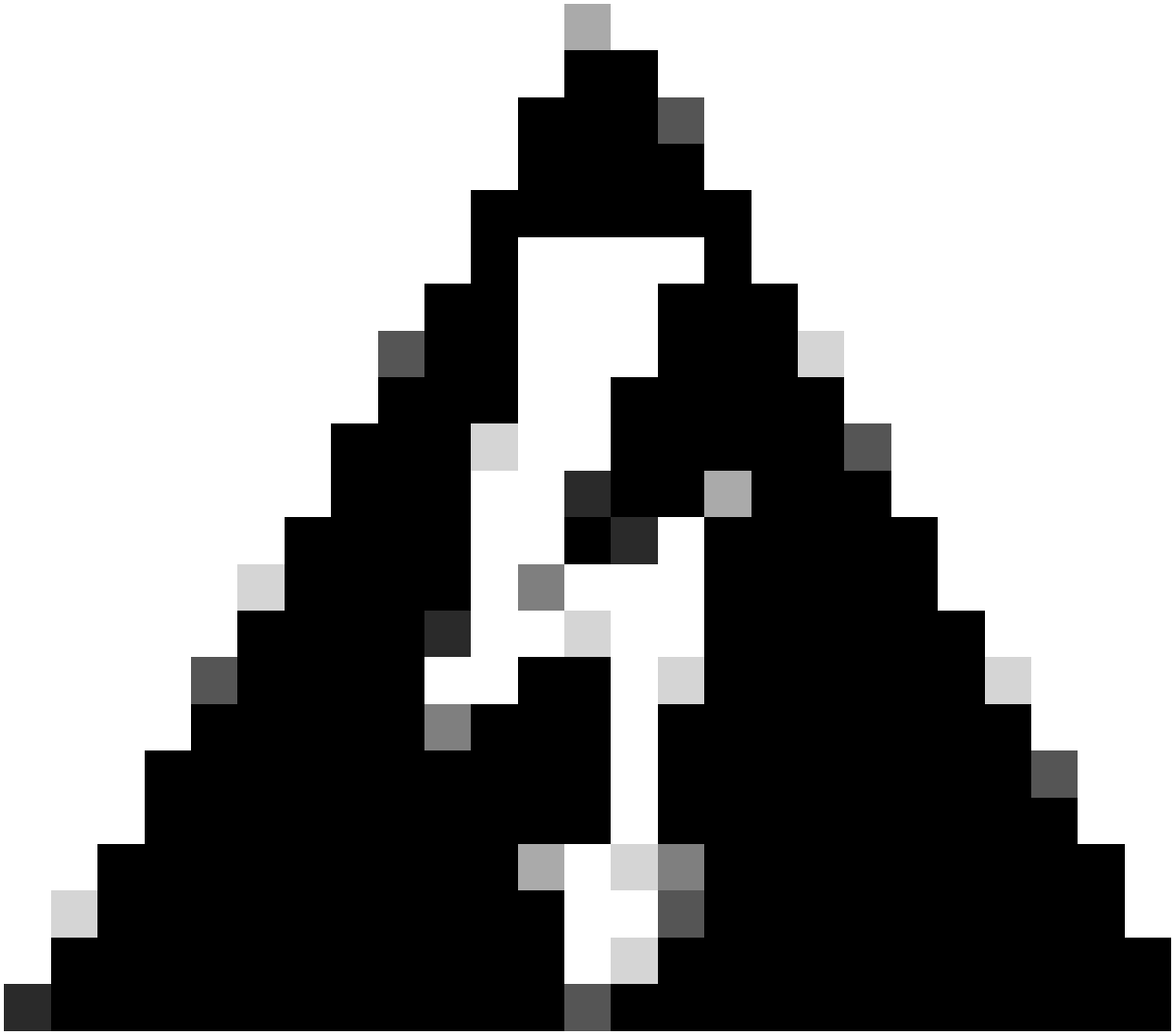



*Manager Center ID & NAT ID*

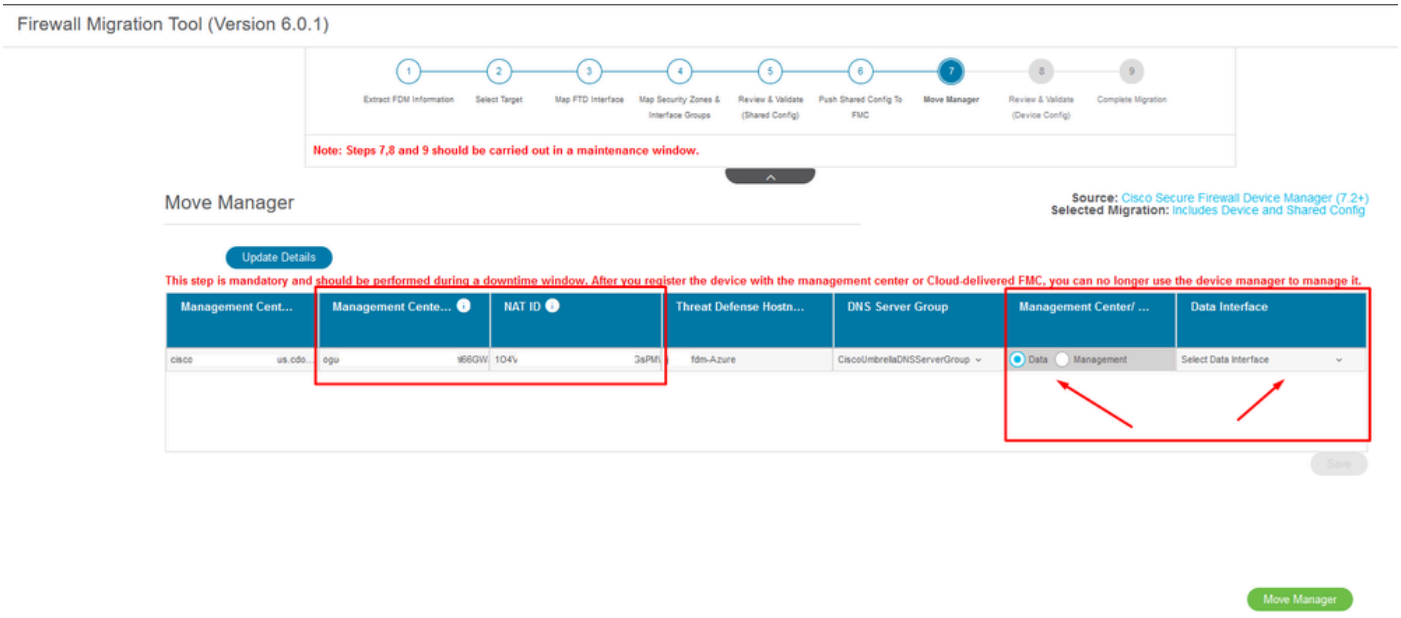



*Update Device Name for Registration.*

After this action, the IDs for the aforementioned fields are shown.



**Warning**: Do not make any changes to the Management Center Interface. By default, the Management option is selected, leave this option as the default setting.

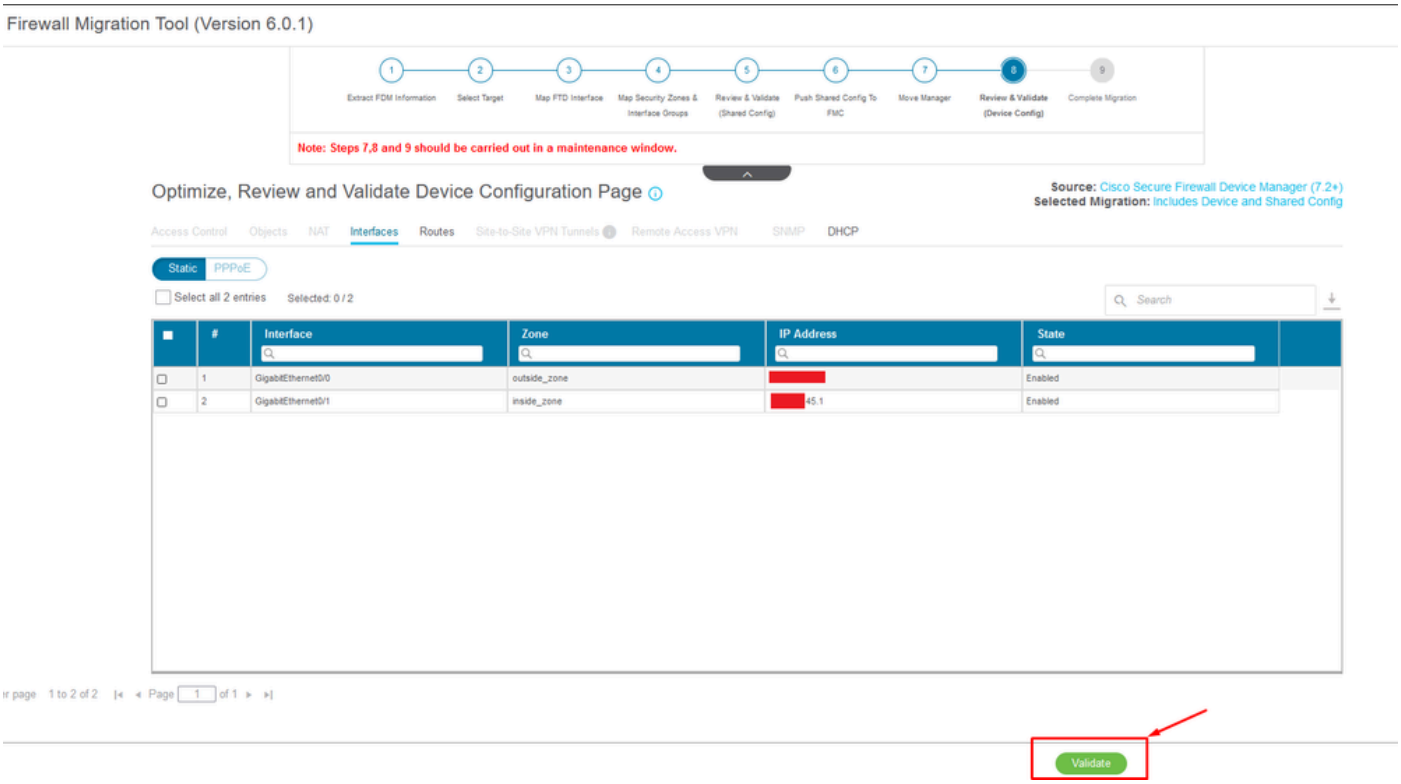


*Managment Center ID & NAT ID.*

After choosing **Update Details** option, the device it is going to start syncing.

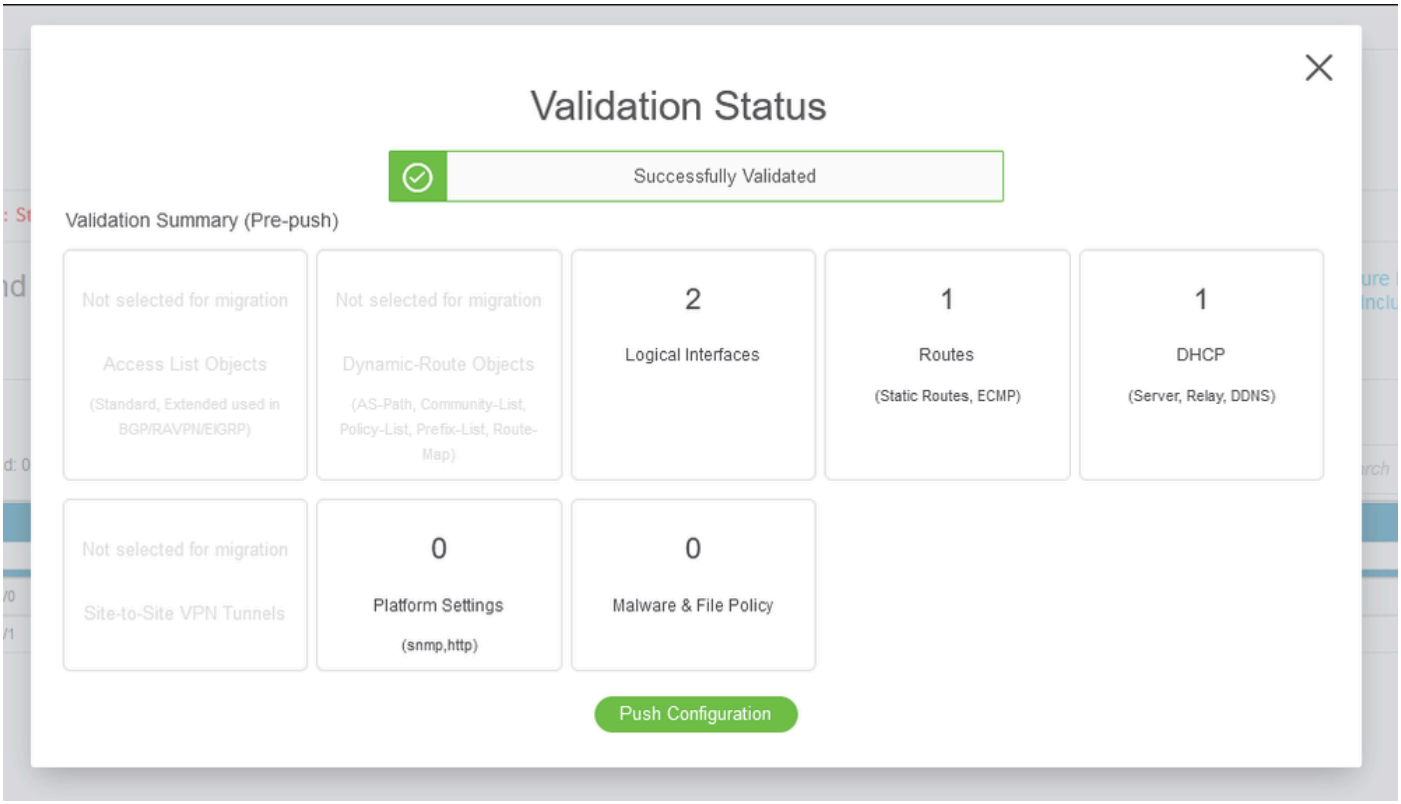

*Syncing FDM Device*

After the migration is finalized, the next step is to examine the interfaces, routes, and DHCP settings configured in the FDM by selecting **Validate**.



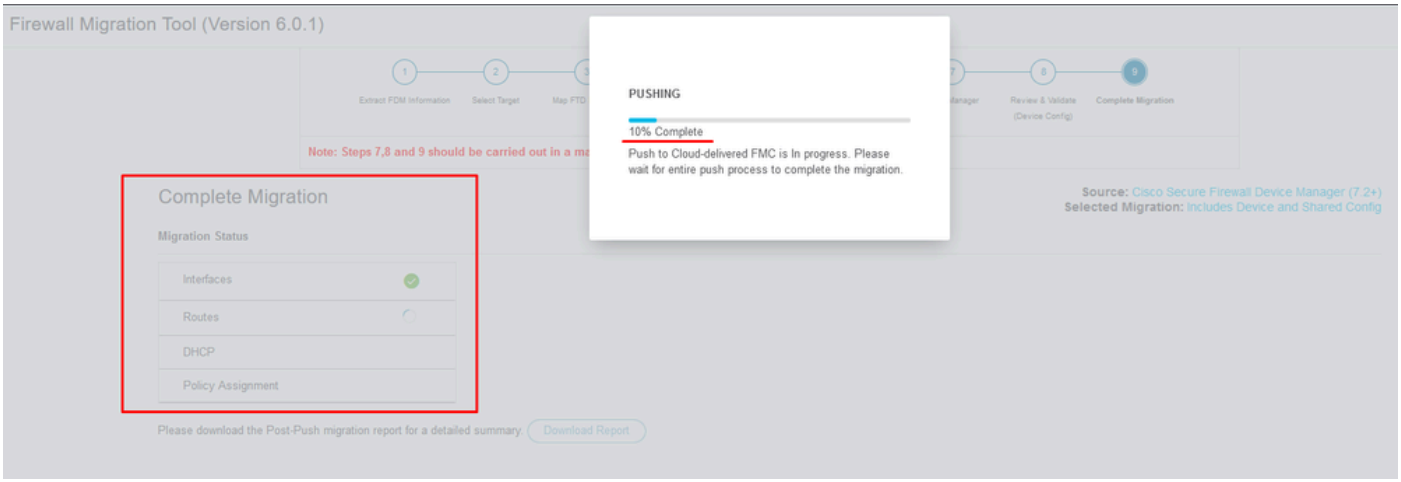

*Validate FDM configuration Settings*

After validation, choose **Push Configuration** to initiate the configuration push process, which is going to continue until the migration concludes. Additionally, it is possible to monitor the tasks that are being executed.



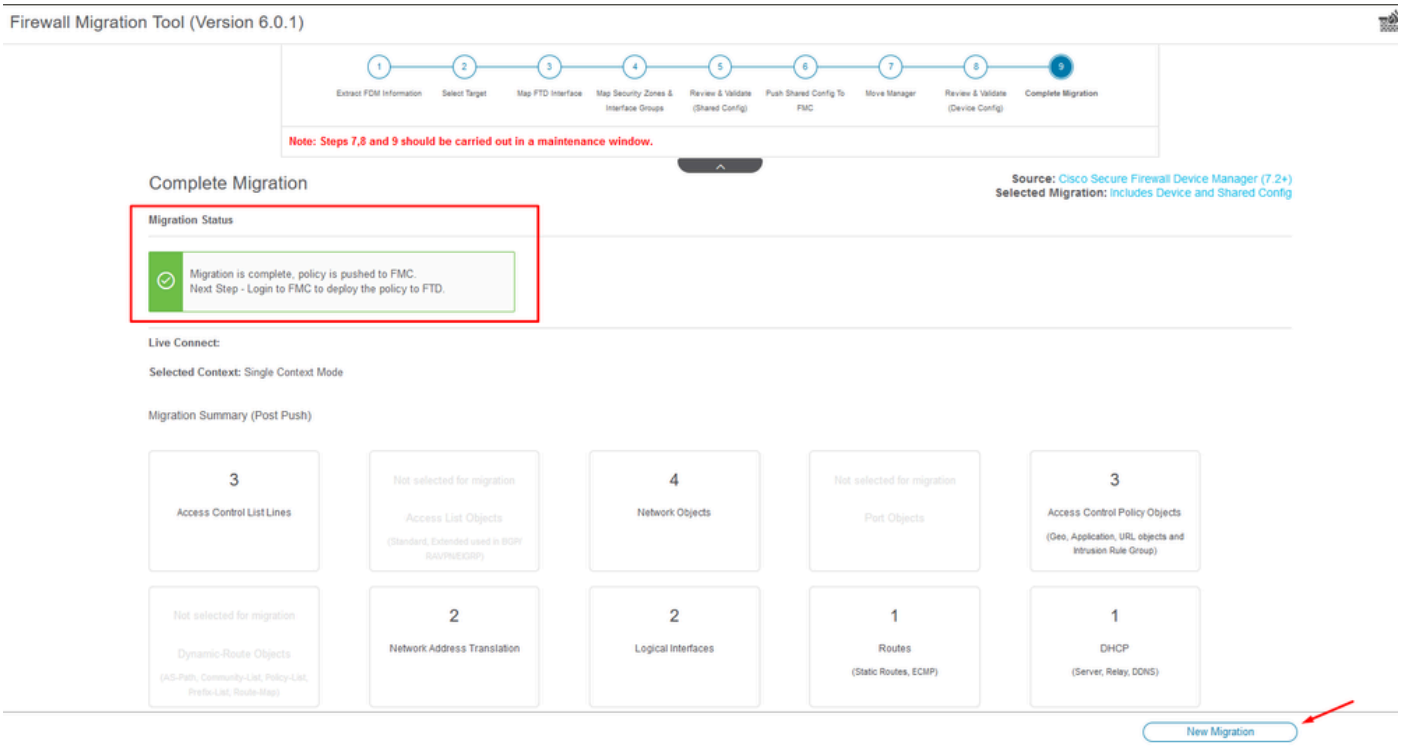

*Validation Status - Push Configuration.*

Pop-up window with the percentage pushing configuration.




*Pushing Percentage Completed*

Upon completion, an option to initiate a new migration is presented, marking the end of the migration process from FDM to cdFMC.

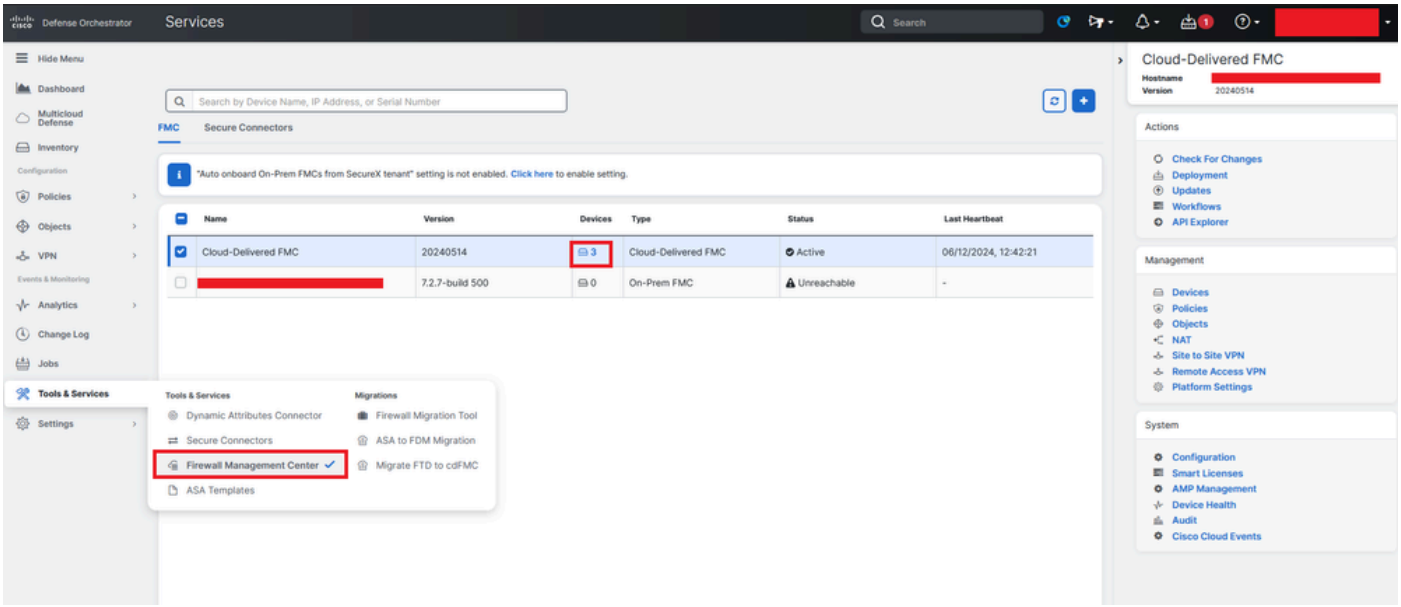



*Complete Migration*

# Verify

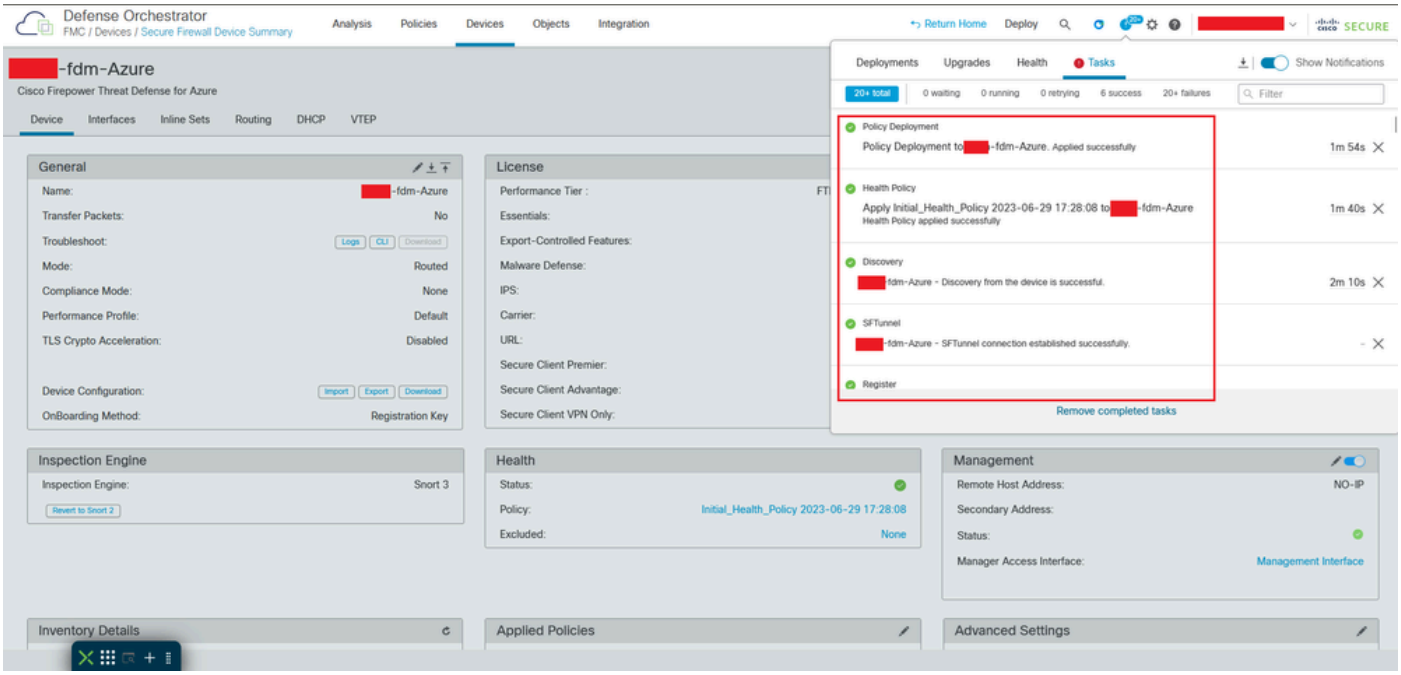
To verify that the FDM has been successfully migrated to the cdFMC.

Navigate to **CDO > Tools & Services > Firepower Management Center**. There, you find the number of registered devices has increased.



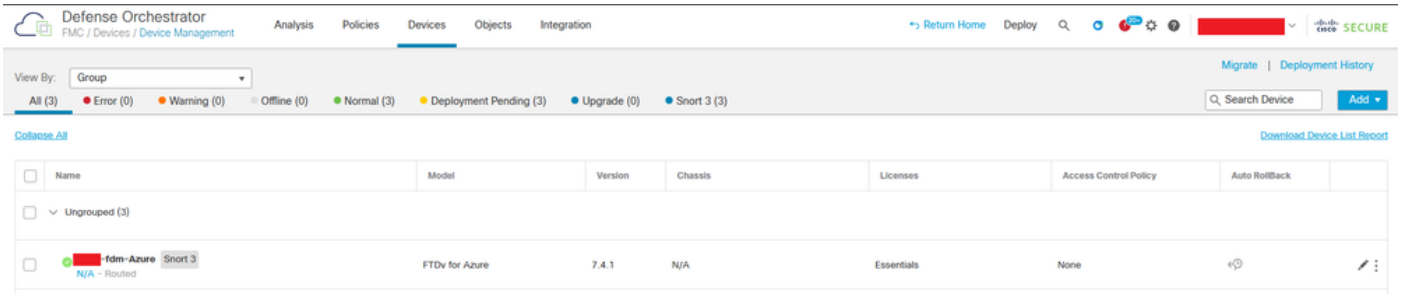

*cdFMC Registered Devices*

Check the device within **Devices > Device Management**. Additionally, within the tasks of the FMC, you can find when the device was successfully registered and the first deployment was completed successfully.



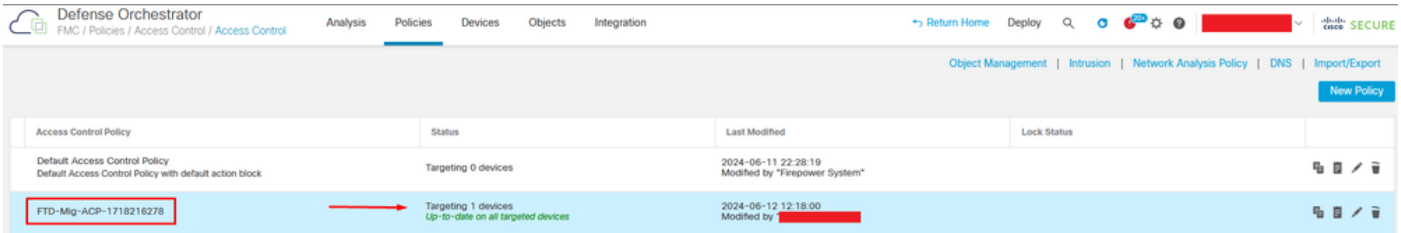

*cdFMC Registration Task Completed.*

Device is on **cdFMC > Device > Device Management.**



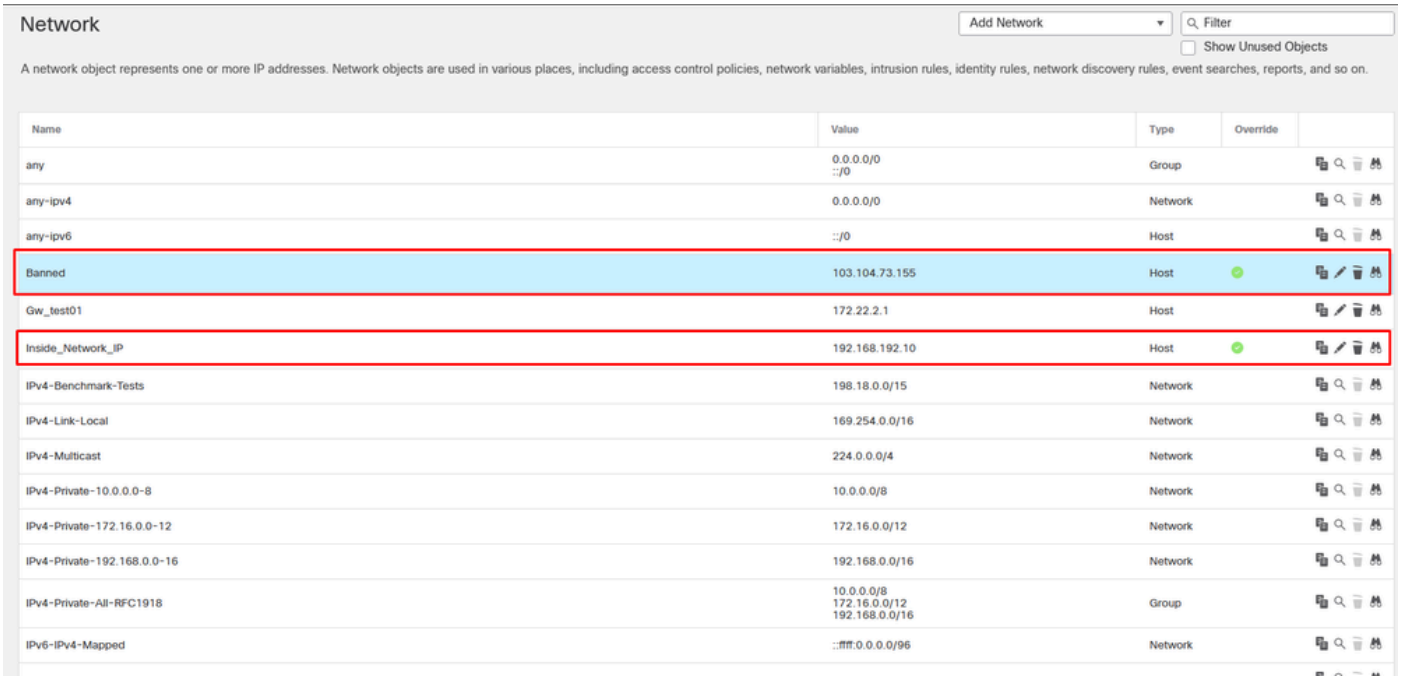

*Device Registered on cdFMC*

Access Control Policy migrated under **Policies > Access Control.**



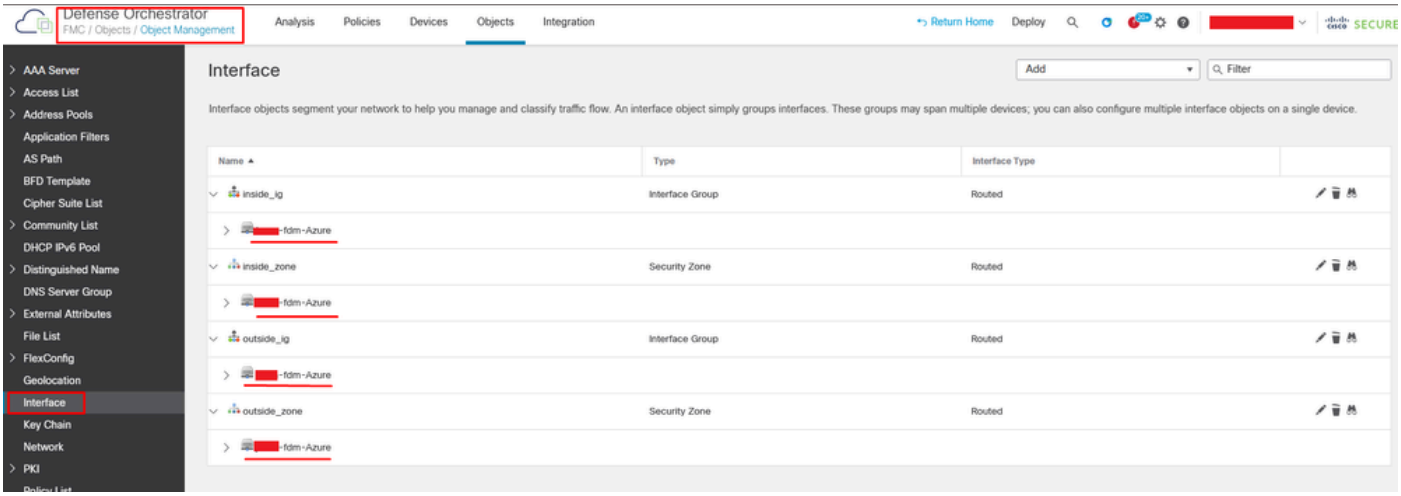

*Migration Policy*

Likewise, you can review the objects created in the FDM which were correctly migrated to the cdFMC.




*Objects Migrated from FDM to cdFMC*

Object Management interfaces Migrated.




*Object Management Intefaces Migrated.*