

Microsoft Vaccination Management in a Day

Lab 05: Command Center

Step-by-Step Lab

April 2021

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Overview

Prerequisites

Note: If you are in an official training, the environment and user have been set up and provided to you.

This is the **fifth and final** lab in a series covering Microsoft Vaccination Management (MVM). These labs follow a sequence of presentations covering an overview of Microsoft Vaccination Management, Cloud Solution Center installation, and the accompanying data model.

Before beginning this lab, confirm you have completed the following:

- 1. **Provisioned an environment with the necessary components installed** as described in following:
 - Deploy MVM
- 2. **Created a user** for the environment with necessary licenses and user roles.
 - MVM Licensing
 - Necessary Roles: Power Apps, Power BI Pro
- 3. Completed all previous labs:
 - Lab 01: System Configuration
 - Lab 02: Data Setup
 - Lab 03: Registration and Booking
 - Lab 04: Frontline Worker App

Before you Begin

- 1. You must be connected to the internet.
- 2. Open an internet browser in either In-Private or Incognito mode.
- 3. Navigate to **Power Apps** and sign-in with your user credentials.

Select the correct environment from the upper-right Environment drop down.



Recommended Resources

The following resources provide a full understanding of Microsoft Vaccination Management and its components and are helpful general resources:

- MVM Homepage
- MVM MS Docs

The following additional resources may be helpful throughout the course of the lab:

- Vaccination Management Dashboard
- Power BI Documentation

Background and Capabilities

Microsoft Vaccination Management's Command Center is a Power BI Data Model and Report curated specifically for healthcare program leaders to gain insights about their vaccination program. Power BI is an analytics platform that provides interactive visualizations and business intelligence capabilities with a user-friendly interface to create reports and dashboards after defining the data sources. The Command Center can be retrieved from Microsoft AppSource and is also known as the Microsoft Vaccination Management Dashboard.

Users and Scenarios

This lab covers the following Microsoft Vaccination Management user experiences and scenarios.

Healthcare Program Leaders:

Navigate the Vaccination Management Dashboard

System Customizers:

- Set up MVM Command Center as an App in Power BI Online
- Embed the Command Center report in Power Apps

Goals

After this lesson you will be able to do the following:



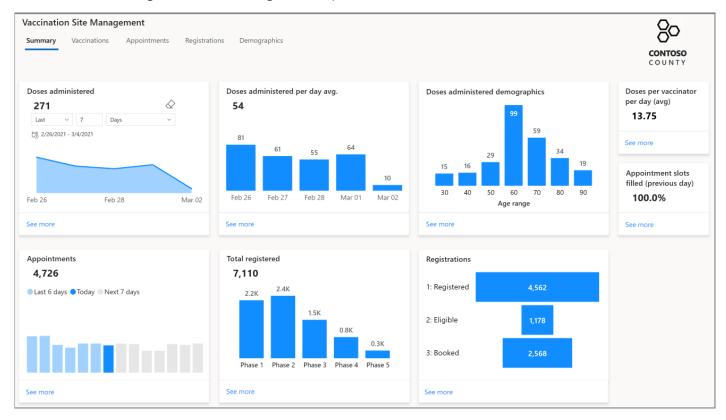
- 1. Configure the Microsoft Vaccination Management Dashboard.
- 2. Share the MVM Command Center Power BI data model and report.
- 3. Navigate the various pages within the Power BI MVM Dashboard
- 4. Learn how to embed the report in Power Apps to use directly in the vaccination management model-driven application.



The estimated time to complete this lab is **45** minutes.

Exercise 1: Configure Command Center

The Microsoft Vaccination Management Command Center offers a vaccination management dashboard created in Microsoft Power BI which enables healthcare program leaders to obtain various insights and establish situational awareness about their vaccination program. They can track cumulative and daily vaccinations, view registrations, bookings and shipments, and monitor KPIs at the site level.

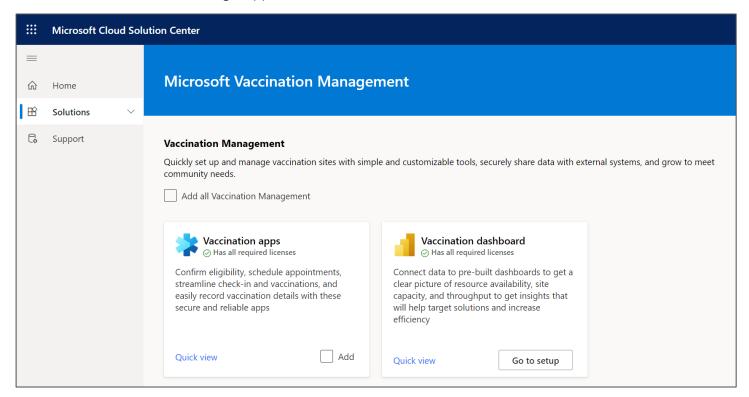


In this exercise, you will learn how to configure the Microsoft Vaccination Management Dashboard from AppSource, connect to your data, and load the Command Center in a Power BI (PBI) Online workspace to view the report.

Task 1: Install Command Center from Microsoft AppSource

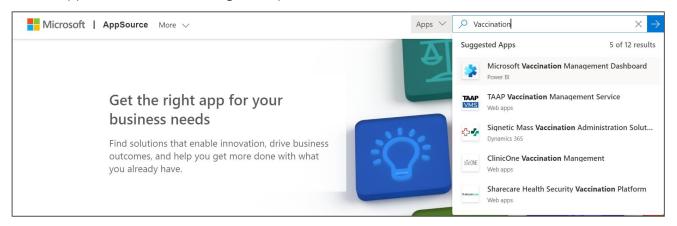
In this task, you will retrieve the Microsoft Vaccination Management Dashboard from AppSource and configure it in Power BI (PBI) Online where a new workspace and Application will be auto created.

Once MVM is more widely available, you can configure the application directly from Microsoft Cloud Solution Center instead of through AppSource, as seen below.

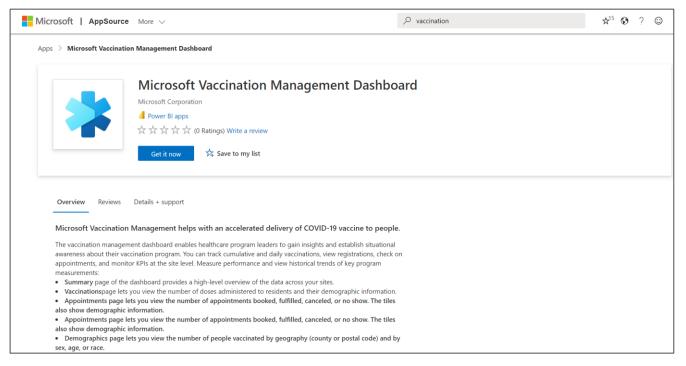


While we are privately available and for this training, you will retrieve the application from AppSource.

- 1. Navigate to Microsoft AppSource. (Incognito/InPrivate mode)
- 2. Search Apps for **vaccination** using the top search bar.



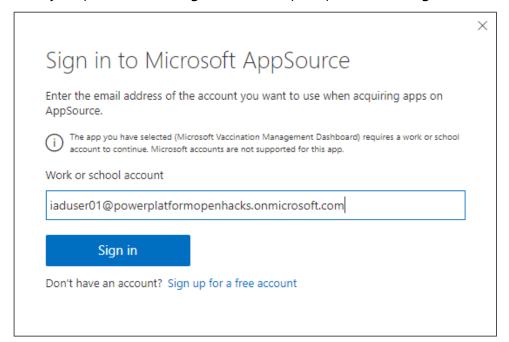
3. Select the Microsoft Vaccination Management Dashboard.



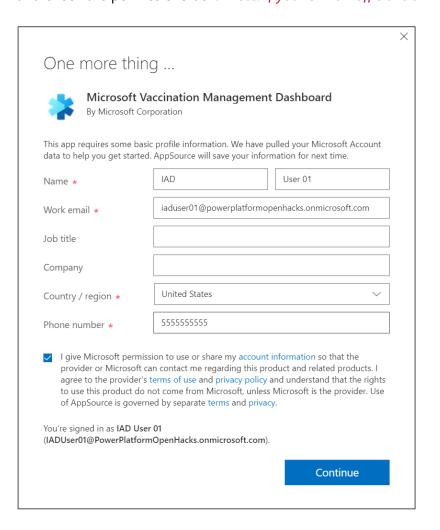
4. Select Get it now.



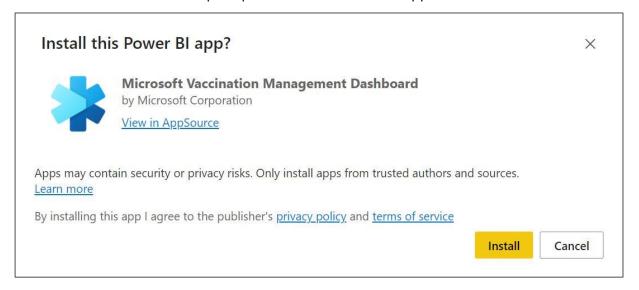
5. Enter your provided training user email if prompted. Select Sign in.



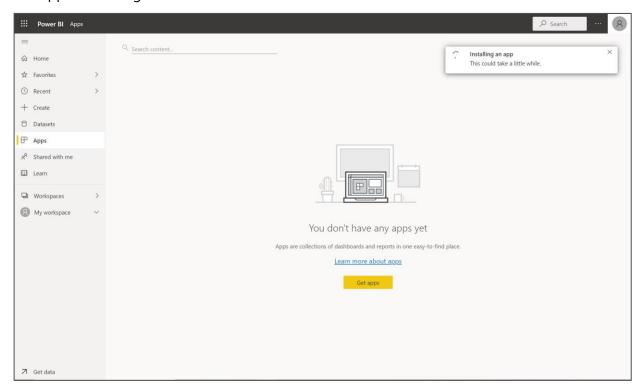
6. In the prompt, fill in your **training user email**, a **dummy phone number**, select **Country/region**, and check the permissions box. *Note: If you're in an official training, use the email provided to you*.



- 7. Select Continue.
- 8. Power BI Online will load and prompt to install the Power BI app. Select **Install**.



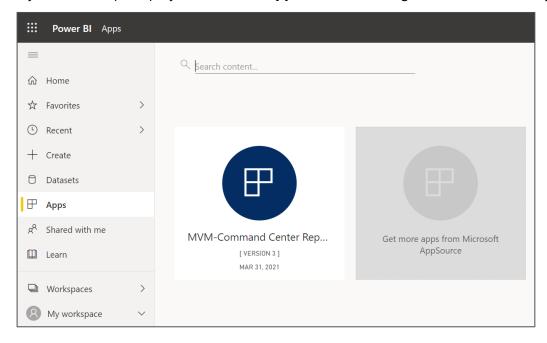
9. The app should begin to install.



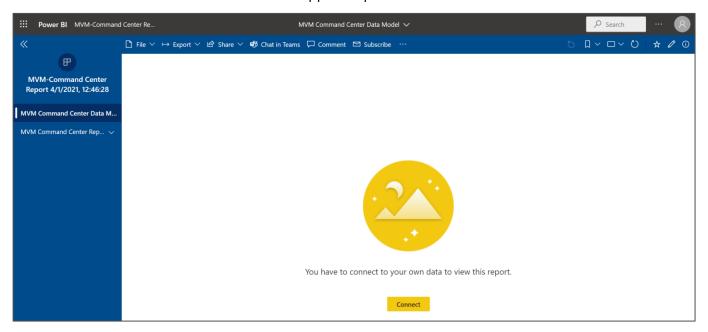
10. Once complete, you should see a prompt that your app is ready. Select **Go to app**.



11. If you miss the prompt, you can select **Apps** on the left navigation bar and **Select** your new app.



12. The MVM Command Center Data Model app will open. Click Connect in the center to connect data.



13. You will be prompted to add **DataverseName** and **UTCZoneOffset.**

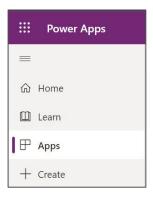


14. To get the Dataverse name, navigate to **Power Apps** (Incognito or InPrivate session).

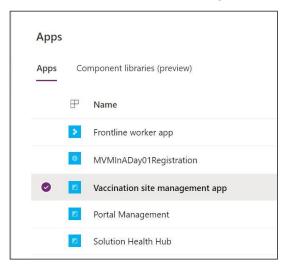
- 15. Log in using the credentials supplied in the training for your user.
- 16. Select the correct environment from the upper right **Environment** drop down.



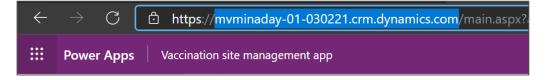
17. Select **Apps** on the left navigation bar.



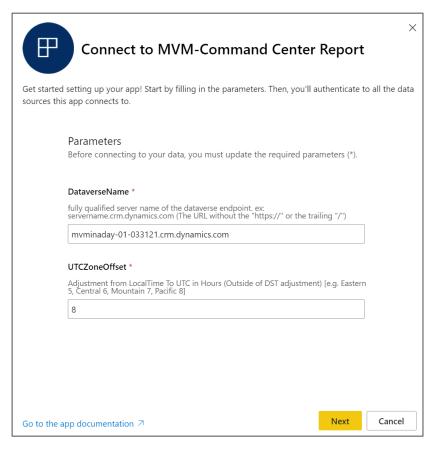
18. Find the **Vaccination site management app** and click on the app name.



19. Once loaded, copy the **URL** ending in **crm.dynamics.com** (don't include https://).

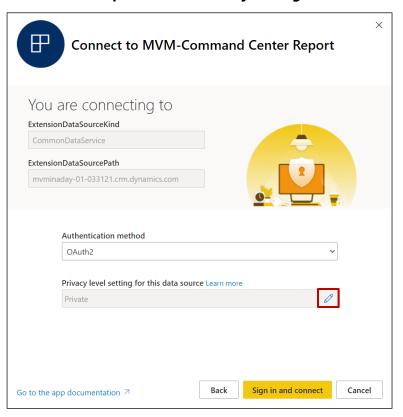


- 20. Navigate back to PBI Desktop and paste the **DataverseName** URL (without https:// and trailing /).
- 21. Add your **UTCZoneOffset**. UTCZoneOffset is the number of hours your local time is offset from UTC. Depending on location, your value may be negative (e.g., PT = 8, IST = -5.5).

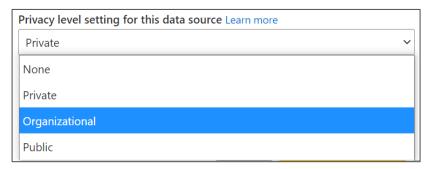


22. Click Next.

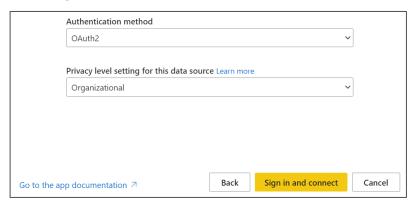
23. You will be prompted for an Authentication method to connect. Keep OAuth2 selected in the drop down. Click the **pencil** under **Privacy setting for this data source** to edit.



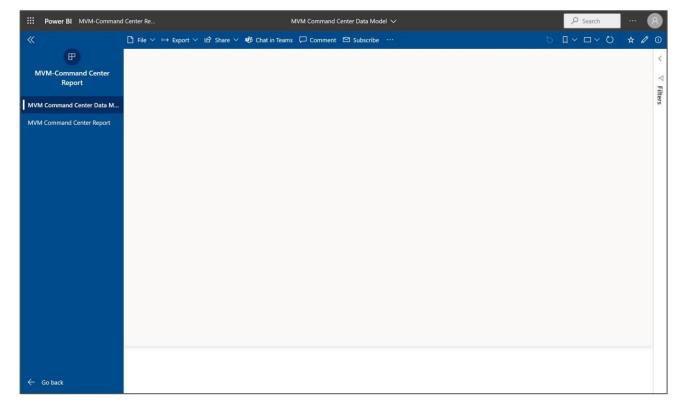
24. For Privacy level setting for this data source, select Organizational.



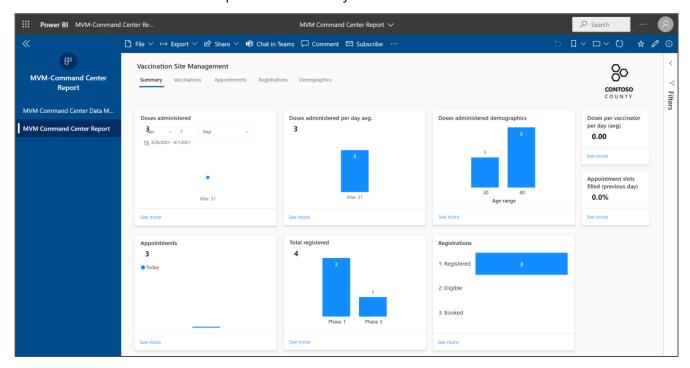
25. Select Sign in and Continue.



- 26. Log in with your training user credentials.
- 27. You will now see a blank report showing on the screen. This file only contains the Data Model.



28. Select the **MVM Command Center Report** on the left site map. The report should load, and you should see the visualizations lit up with the data in your environment.



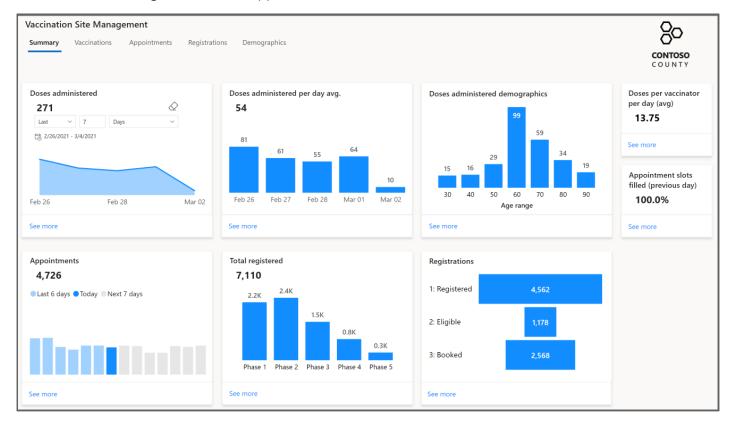
Congratulations! You successfully installed the MVM Command Center from AppSource into a new Power BI workspace in your tenant and connected to your data.

Exercise 2: Navigate the Command Center Dashboard

In this exercise, you will navigate the Microsoft Vaccination Management Command Center Dashboard and the pages created specifically for enabling insights and awareness about the vaccination program.

Task 1: Summary Page

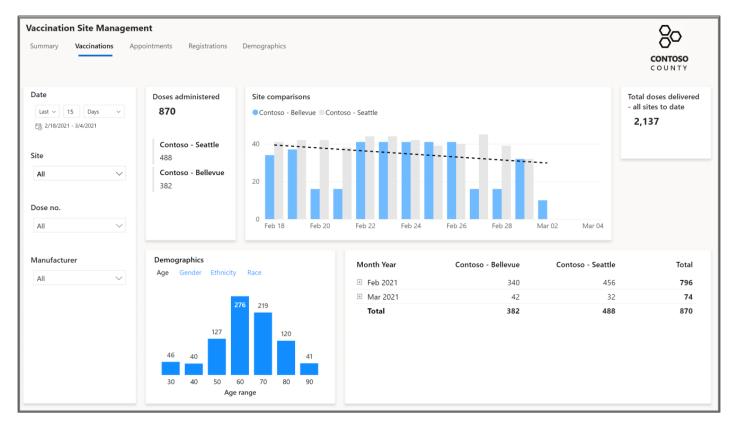
In this task, you will explore the **Summary** page. The Summary page of the dashboard provides a high-level overview of the data across your sites, such as the number of doses administered per day for last n number of days, per day average of the doses administered, age-range of people who received the doses, and information about registrations and appointments.



- **1. Filter:** By default, the summary will show the last **7 days**. You can modify this filter to show a longer or shorter time span of data. When you modify the filter, all visualizations will update accordingly.
- 2. Tooltips: You can hover over a visual to see the tooltip for an item which may have further details.
- **3. Highlight:** You can **select** a data point on a visual and other visualizations will adjust to highlight their associated information. This is different than filtering since all data is visible, but some has now been highlighted and emphasized.
- **4. See more:** You can select the **See more** link in each tile to view detailed information in each page. Let's click see more on the **Doses administered per day avg.** visual to navigate to Vaccinations.

Task 2: Vaccinations Page

In this task, you will explore the **Vaccinations** page. The Vaccinations page lets you view the number of doses administered to residents and their demographic information (age, gender, ethnicity, race) based on the specified date range, site locations, dose number (1 or 2), and vaccine manufacturer. The page also shows a trend line of the vaccinations administered at the selected sites.

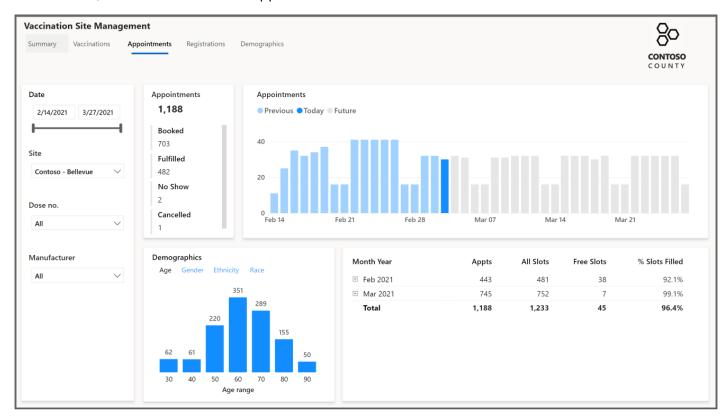


- 1. Explore the data on the page and hover, highlight, and filter what you see in the visuals. Expand areas that can show more detail and navigate to various tabs within visuals, such as the Demographics bar chart.
- 2. With a small subset of data, it can be harder to see trends. As more people are registered, booked for appointments, and administered their vaccinations, the report visuals will fill out with more data.
- 3. After navigating the Vaccinations page, let's click the Appointments tab in the top under Vaccination Site Management.

Task 3: Appointments Page

In this task, you will explore the Appointments page. The Appointments page lets you view the number of appointments booked, fulfilled, canceled or no show along with resident's demographic information (age, gender, ethnicity, race) based on the specified date range, site location, dose number (1 or 2), and vaccine manufacturer. You can only view appointments data for a single site at a time.

The page also shows a six-week rolling window (two weeks before current week and three weeks after the current week) information about the appointments for the selected site and other filters on the left.

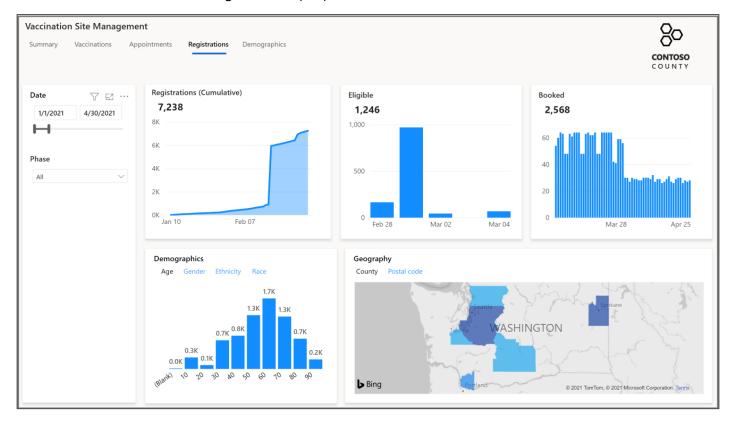


- 1. Explore the data on the page and hover, highlight, and filter what you see in the visuals. Expand areas that can show more detail and navigate to various tabs within visuals.
- 2. After navigating the Appointments page, let's click the Registrations tab in the top under Vaccination Site Management.

Task 4: Registrations Page

In this task, you will explore the Registrations page. The Registrations page lets you view the number of people who registered over time (cumulative), number of people who became eligible, and number of people booked for appointments per day. It also shows registration numbers by resident's demographic information (age, gender, ethnicity, race) and by geography (county or postal code).

You can filter information for single or multiple phases.

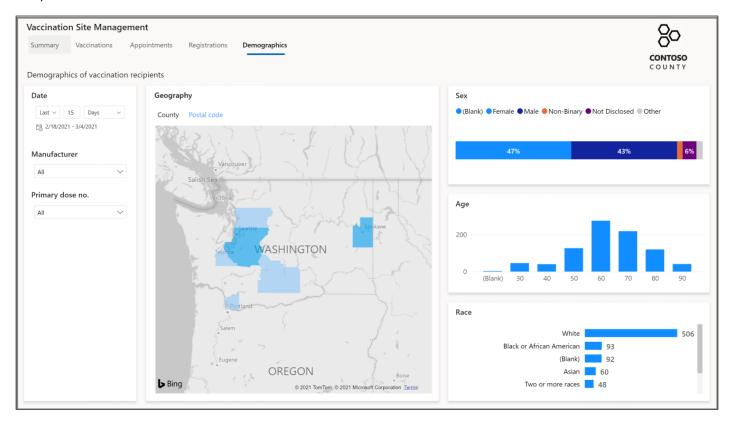


- 1. Explore the data on the page and hover, highlight, and filter what you see in the visuals. Expand areas that can show more detail and navigate to various tabs within visuals.
- 2. Notice the Geography map on the form powered by Bing Maps which has zoomed into the given location on the map.
- 3. After navigating the Appointments page, let's click the Registrations tab in the top under Vaccination Site Management.

Task 5: Demographics Page

In this task, you will explore the Demographics page. The Demographics page lets you view the number of people vaccinated by geography (county or postal code) and by sex, age, or race.

You can filter information based on the date range, vaccine manufacturer, and the primary dose number (1 or 2).



- 1. Explore the data on the page and hover, highlight, and filter what you see in the visuals.
- 2. Change the Geography map to postal code and see if any additional areas show up.

Congratulations! You have successfully navigated the MVM Command Center and all the pages in the Report to understand what it all has to offer.

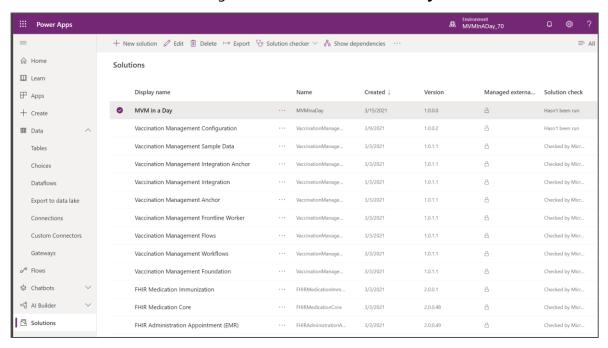
Exercise 3: Embed Power BI Report in Power Apps

In this exercise, you will learn how to embed the MVM Command Center report into vaccination site management model-driven application so users can access the visualizations right from their device. You will first add a Dashboard that connects to the Power BI report you created previously. Then we will add that Dashboard to the Sitemap so vaccination site managers can quickly access the insights and analytics directly alongside registration data. We will make all changes in the MVM in a Day solution for proper management.

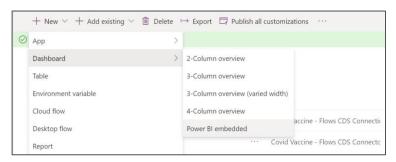
- 1. Navigate to <u>Power Apps</u> (Incognito or InPrivate session).
- 2. Log in using the credentials supplied in the training for your user.
- 3. Select the correct environment from the upper right **Environment** drop down.



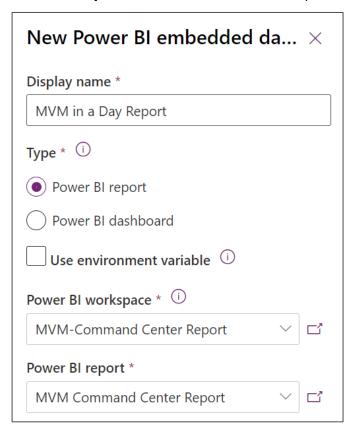
4. Select **Solutions** on the left navigation bar. Select **MVM in a Day** solution to **edit**.



5. Go to New > Dashboard > Power BI embedded



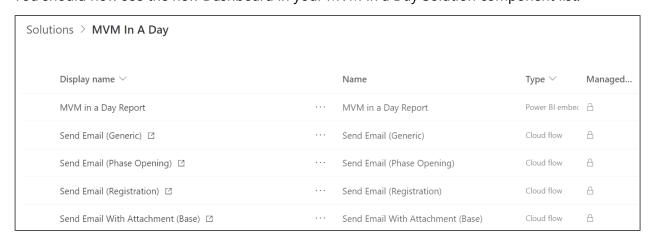
- 6. Add Dashboard details as follows:
 - a. Name: MVM in a Day Report
 - b. **Type**: Power BI report
 - c. **Power BI workspace**: MVM-Command Center Report
 - d. Power BI Report: MVM Command Center Report



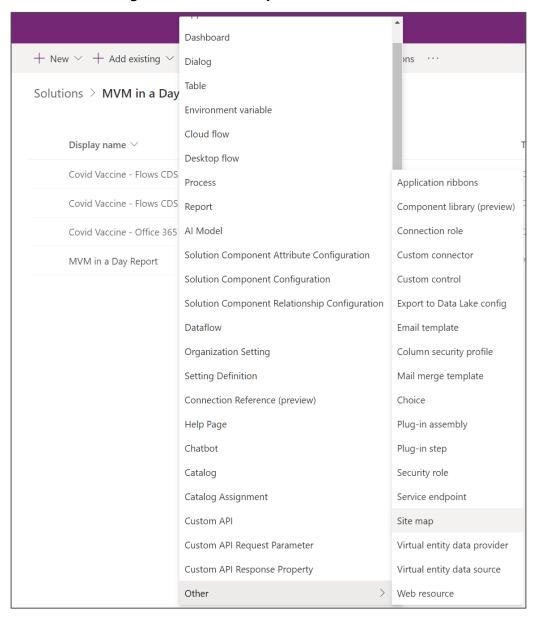
7. Click Save.



8. You should now see the new Dashboard in your MVM in a Day Solution component list.



9. Select Add Existing > Other > Site map.



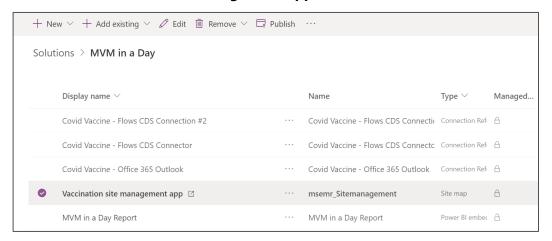
10. Select the Vaccination site management app.



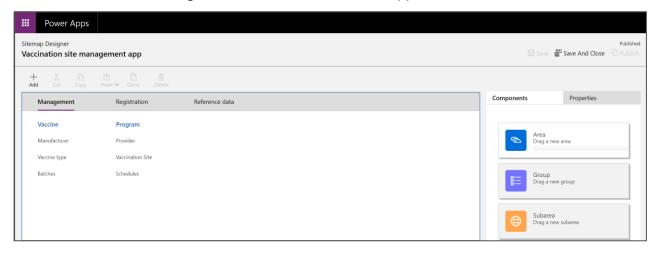
11. Select Add.



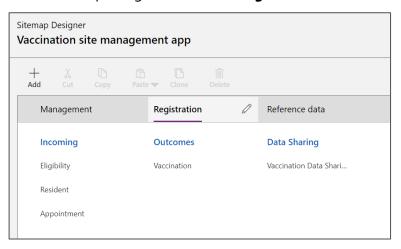
12. Select the Vaccination site management app in the list and click Edit.



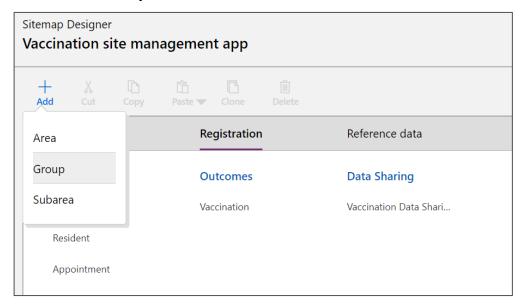
13. You will be landed in the site map designer. This is where you can define the areas, groups, and subareas shown in the navigation bar in the model-driven application.



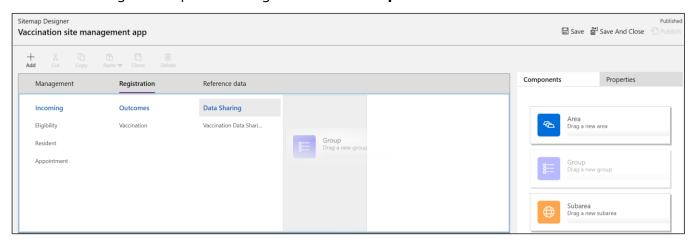
14. In the site map designer, select the **Registration** area.



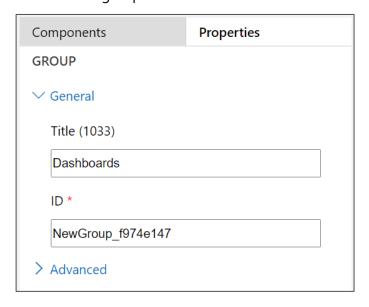
15. Select **New** > **Group**.



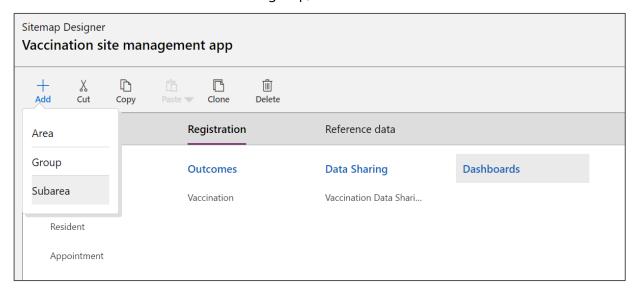
16. You can also drag and drop from the right-hand side **Components** area onto the canvas.



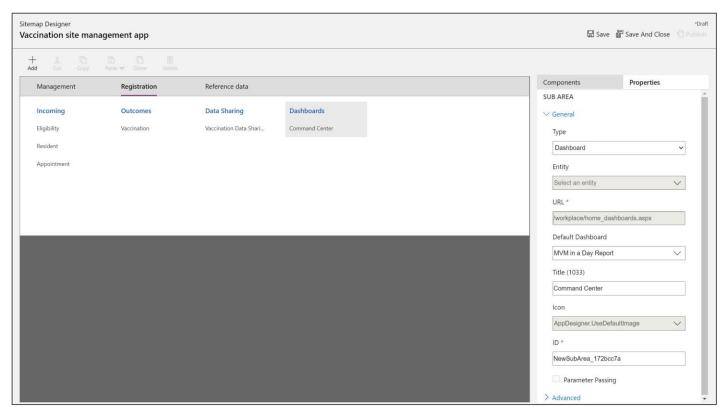
17. Title the new group **Dashboards**.



18. While selected on the new Dashboards group, select **Add** > **Subarea**.



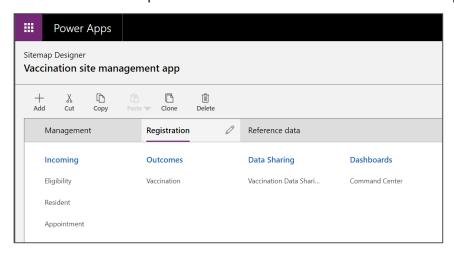
- 19. Enter the following details for your new subarea:
 - a. Type: Dashboard
 - b. **Default Dashboard**: MVM in a Day Report (The dashboard you created in this exercise)
 - c. **Title**: Command Center



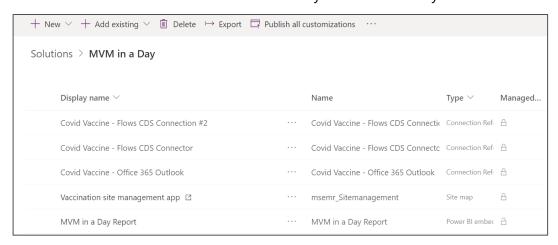
20. Click Save. Then click Publish.



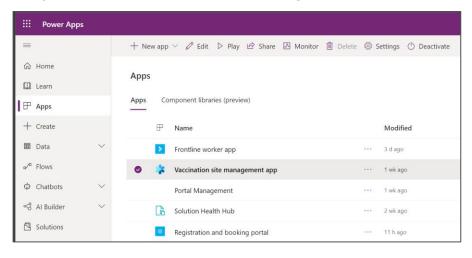
21. Now the Sitemap has a new subarea called Dashboards in the Registration area with the MVM Command Center Report embedded and accessible from the sitemap.



- 22. Click **Save and Close** or close the browser window.
- 23. Navigate back to the MVM in a Day solution in Power Apps. You should now see the 2 additional rows for the Vaccination site management app site map and MVM in a Day Report embedded Power BI. Select **Publish all customizations** while in your MVM in a Day solution.



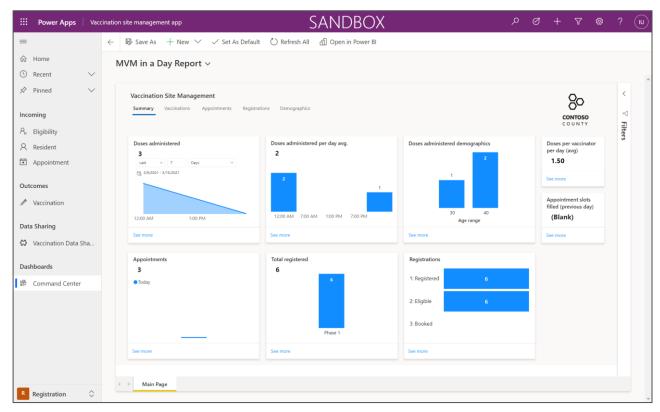
24. Navigate to **Apps** > **Vaccination site management app**. Select the name or click Play to open it.



25. The application will by default open in the Management area. In the bottom left corner, change the drop-down area to **Registration**. This is where we added the Dashboards group and Command Center subarea.



- 26. Once the area is changed to Registration, you will see the **site map** on the left which includes the new Dashboards area.
- 27. Select **Command Center** on the left to navigate to the Power BI embedded report. Once loaded, you will see the report embedded directly as a dashboard in the vaccination site management app.



Congratulations! You successfully embedded the MVM Command Center Power BI Report as a Dashboard in the Vaccination site management model-driven application.

Summary

In this lab, you learned about the Microsoft Vaccination Management (MVM) Command Center Power BI Application and how to set up and explore the vaccination dashboard.

You completed the following tasks:

- 1. Installed the Microsoft Vaccination Management from AppSource
- 2. Configured the Command Center Power BI data model and report in PBI Online.
- 3. Navigated the various pages within the MVM Command Center report.
- 4. Embedded the Power BI Report in Power Apps to use directly in the vaccination management model-driven application.

Lab Survey

We would appreciate your feedback on Microsoft Vaccination Management in a Day and this hands-on-lab, such as the quality of documentation and the usefulness of the learning experience.

Please use the survey at https://aka.ms/MVMIADSurvey to share your feedback.

You may provide feedback for each module as you complete it or at the end once you've completed all the modules. Thank you!

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