

Proof-of-concept app

Delegated Teams PSTN Management app

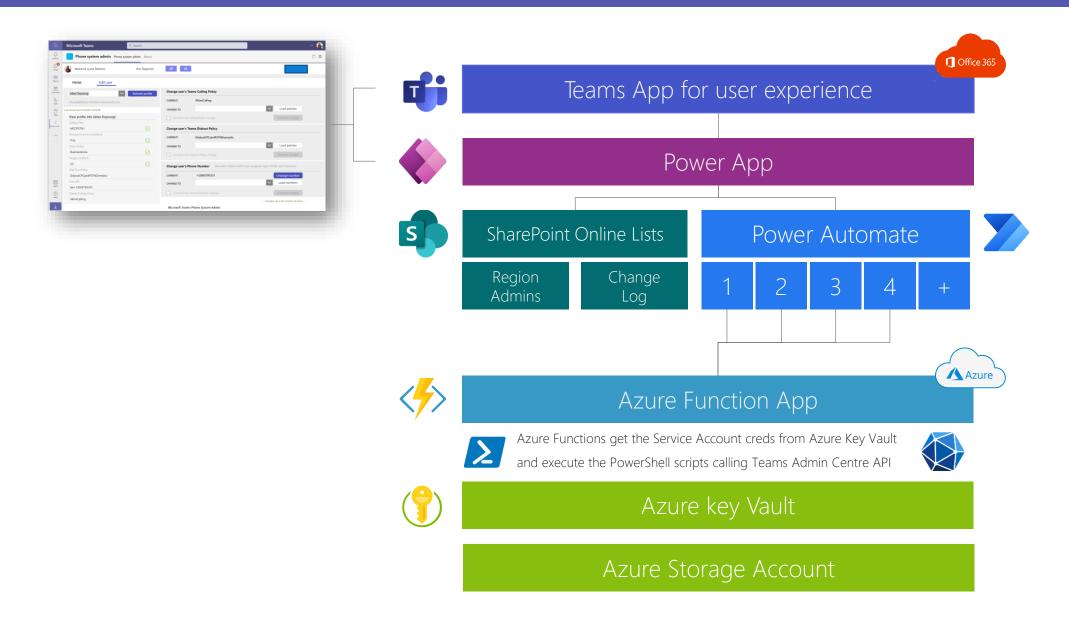
Deployment guide

[APEX 82639]





High Level Solution Design





Power Apps

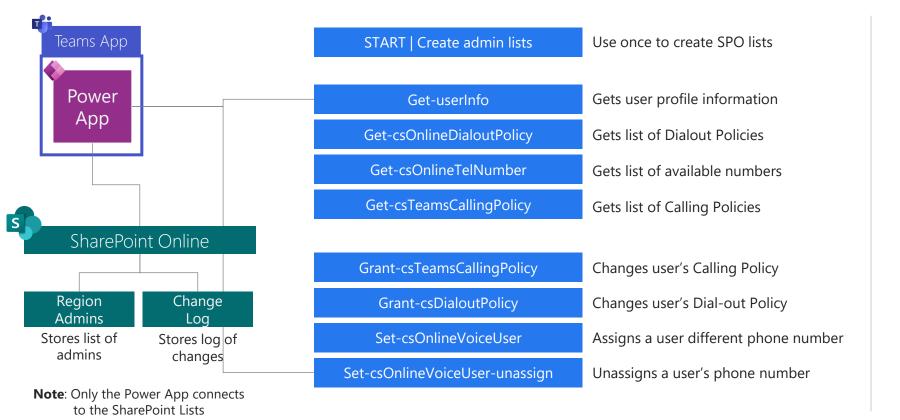
Power Automate

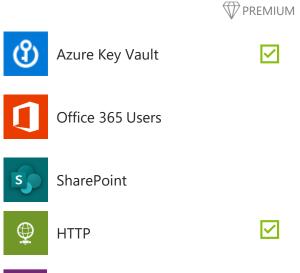
The Power App provides the user interface for regional admins to make changes to user's phone system profiles

Each of the Flows below is connected to the Power App, and are triggered via buttons and functions as the regional admins use the Power App. Each Flow in-turn triggers an Azure Function. Data securely moves between the App, Flows, and Functions.

Power Platform Connectors used

The Power Platform Connectors shown below are used to connect the App and Flows to the relevant data sources and services. Note 2 x are Premium.





Power Apps

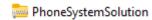
Pre-requisites

Make sure you have access to the following ✓

- Permissions to create a SharePoint Team site
- A new Power Platform Environment with Database
- Environment admin permissions
- Power Platform DLP policy to allow use of the connectors defined in this document
- Azure resources and API deployed You'll need the outputs of the deployment script
- List of Country codes for use with region admins (E.g., US, FR)
- Test users with assigned regions
- Azure AD Security Group or Security Enabled M365 Group

Assets

Phone System Admin Solution package (.zip file)



 This Power App should only be deployed after the deployments of the Azure resources – The outputs of this deployment are needed for the configuration of this Power App – Example of output:

API_URL : 'https://teams-nnjqs.azurewebsites.net'

API_Code : 'pujmFZfGxwqGXXXdddxLs2xXXXg2cMLhAUUE2Q=='

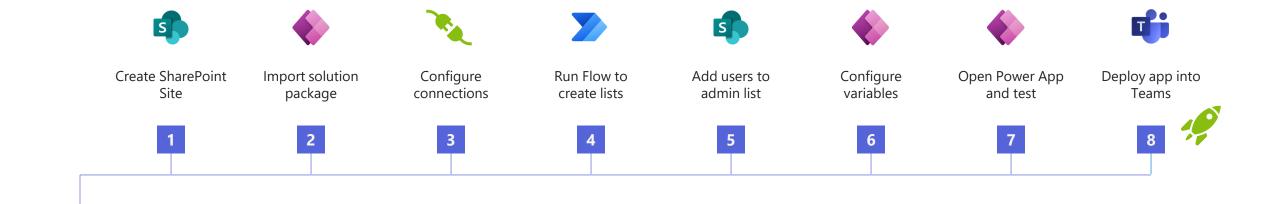
TenantID : '153017a8-XXXX-XXXX-463465842b89'

ClientID : 'bad28fb5-XXXX-XXXX-665886c2cbad'

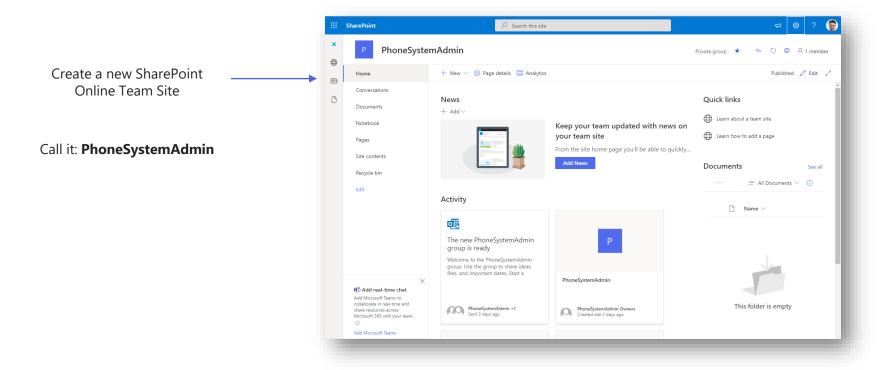
Audience : 'api://azfunc-bad28fb5-XXXX-665886c2cbad'

AzFunctionIPs : '104.45.68.78,104.45.69.84,104.45.69.210'

Prepare prerequisites



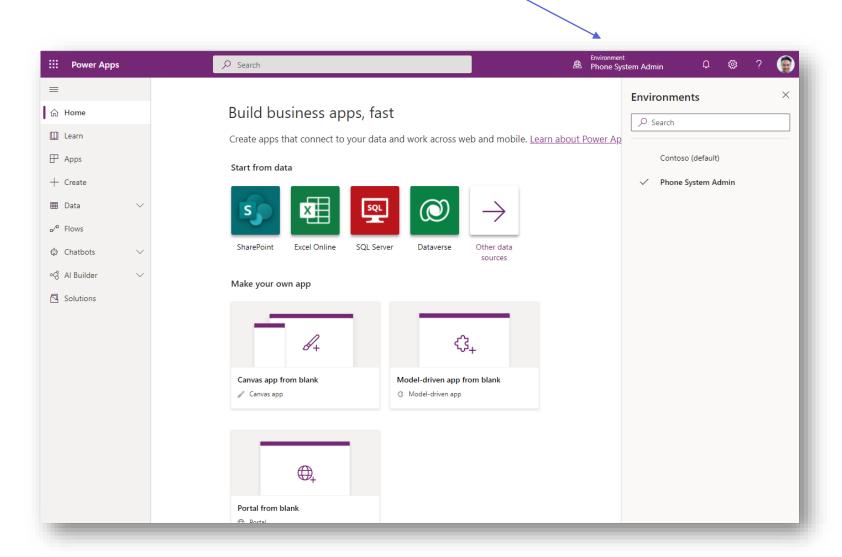
Create SharePoint Site



Import Solution Package



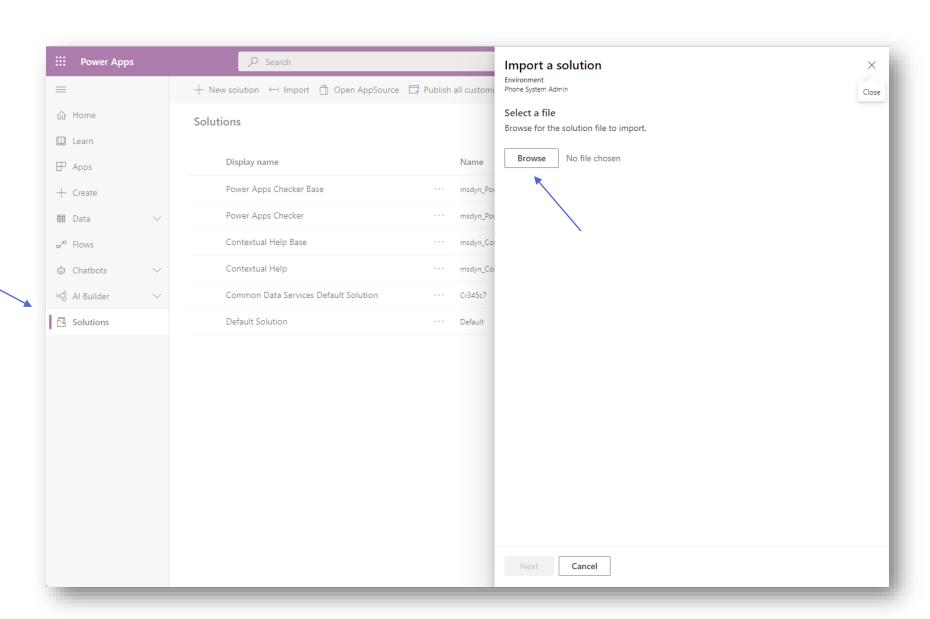
- Open: https://make.powerapps.com
- Select your new Environment
- **Note**: It is not recommended to import into the Default environment



Import Solution Package



- Go to Solutions
- Click on **Import**
- Browse to the solution package
- Click Next
- Click Next



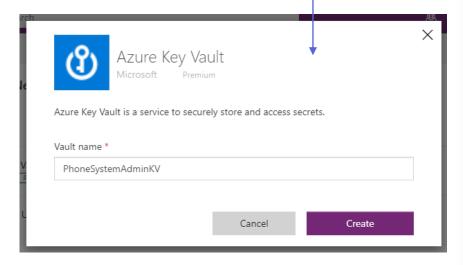
2

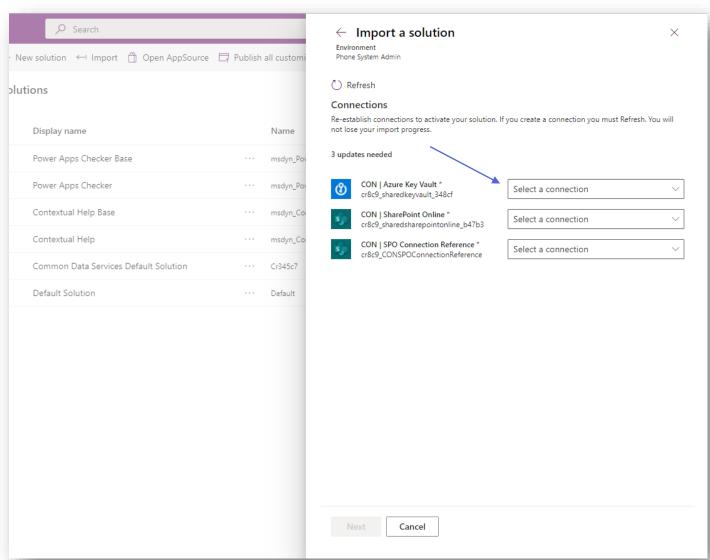
Import Solution Package



- Create a new connection for Azure Key Vault
 - You need a **Vault name** to do this
- Create a new connection for **SharePoint**

TIP: You'll need to switch back to this browser tab a few times





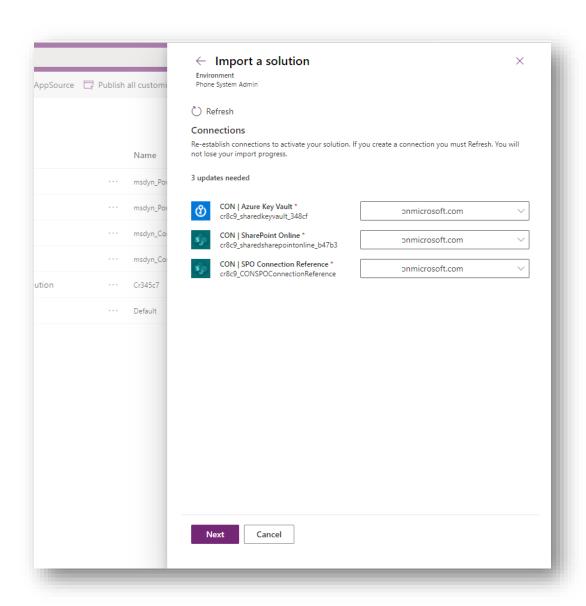
2 Import Solution Package



Configure connections



- This has pre-connected to these services which means the App and Flows will use these automatically
- When all complete, click **Next**



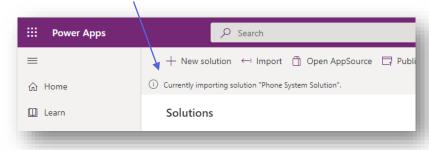
2

Import Solution Package



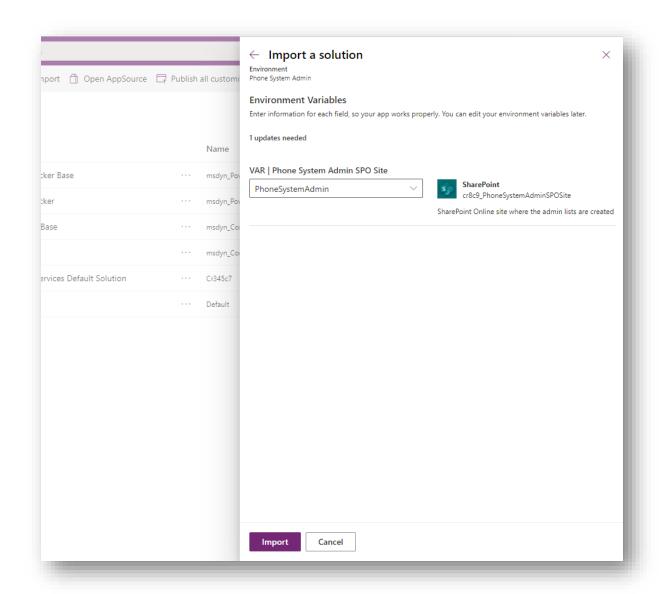
- Now you need to choose the SharePoint site you have already created in Step 1. If it does not show up yet, you may need to wait a few minutes.
- When all set, click **Import**

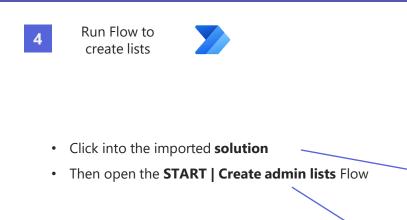
TIP: It will show you a banner at the top that the import is underway

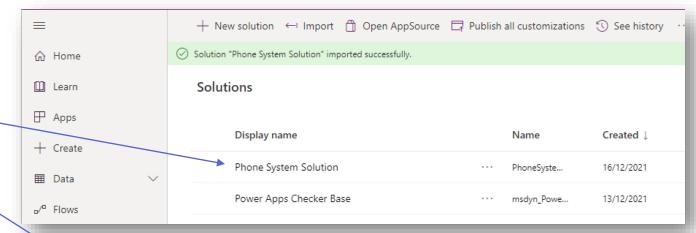


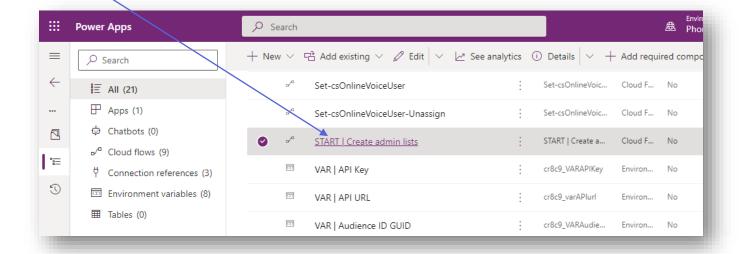
And another when it has completed

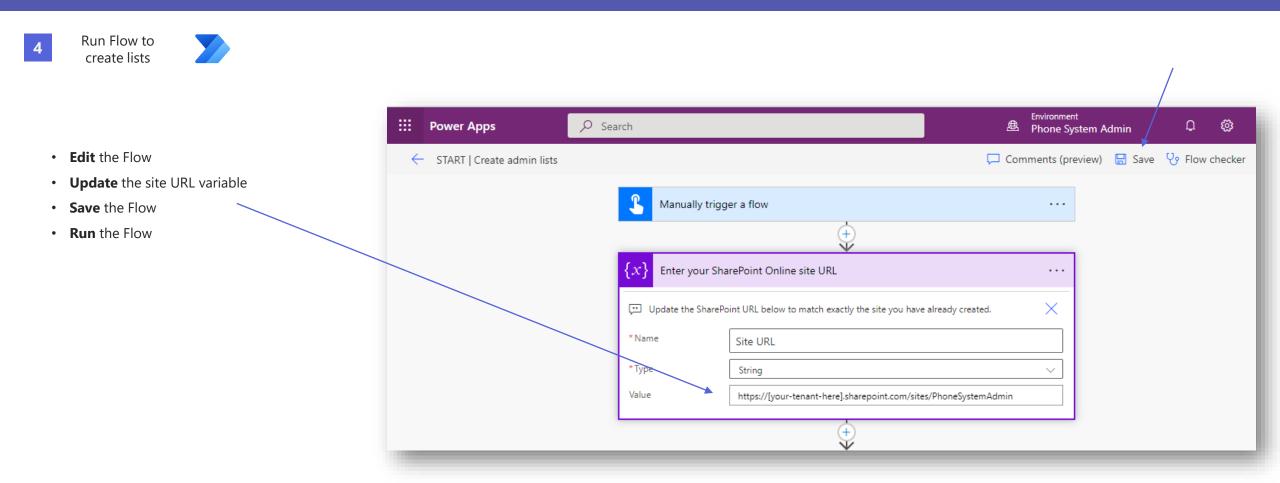
Solution "Phone System Solution" imported successfully.









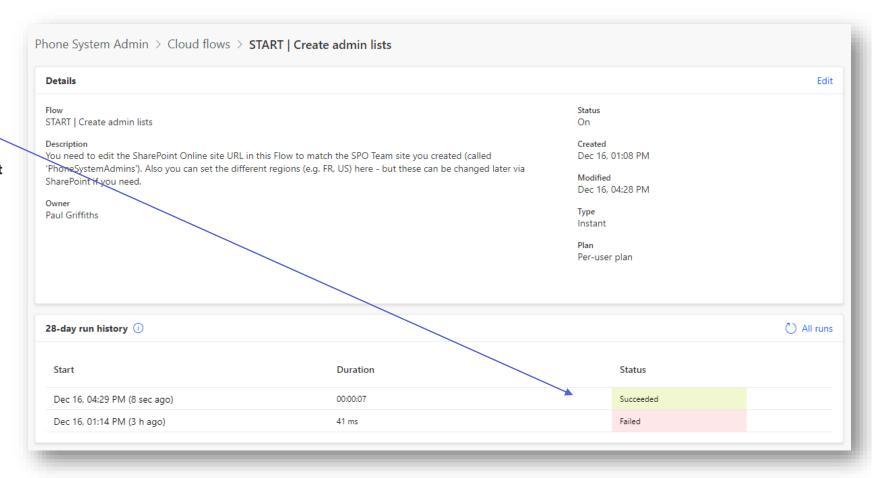




Run Flow to create lists



- The Flow should take less than 10s to run
- Look for: Succeeded
- If you see: Failed
 - Check the site URL is set
 - Run again
- Open your SharePoint site, go to: **Site Content**
 - Check the two new lists are there
 - Region admins
 - User-change-requests

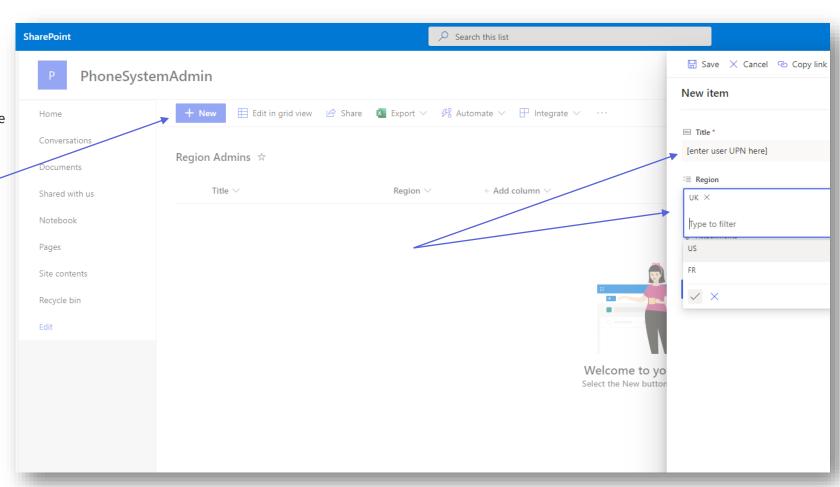


5

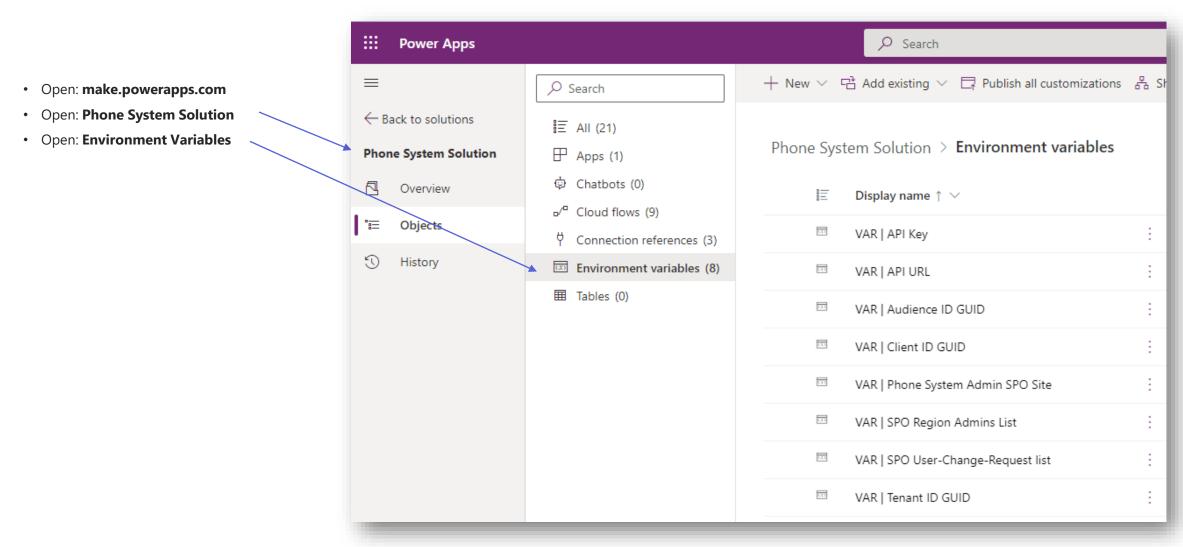
Add users to admin list

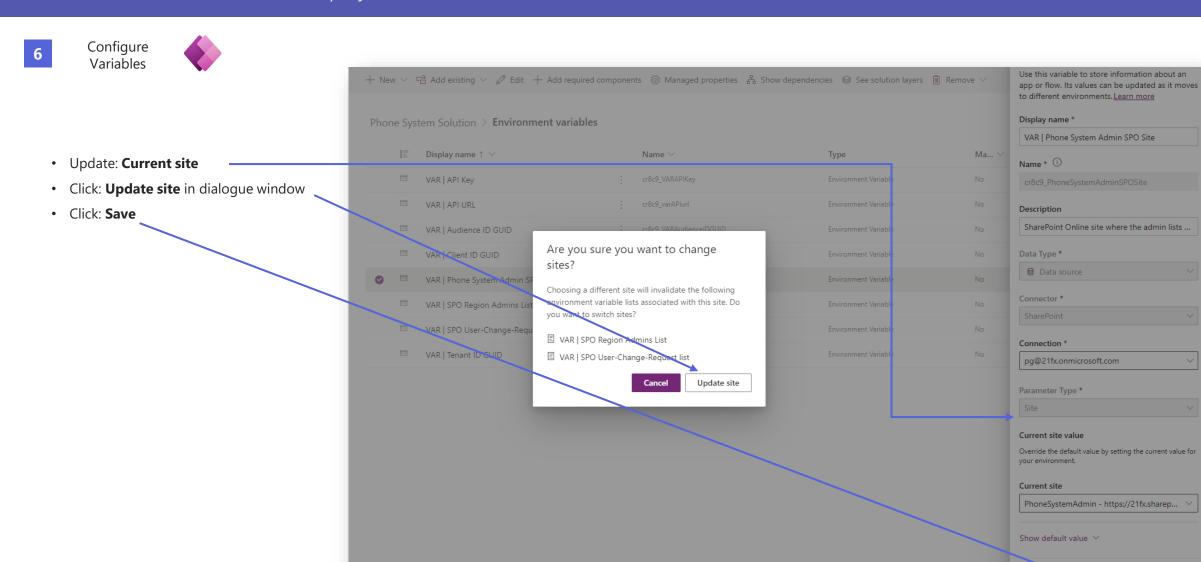


- In your SharePoint site
 - Open the **Region Admins** list
 - Add list items for your admins
- If you need to add more regions, you can edit the column in list settings

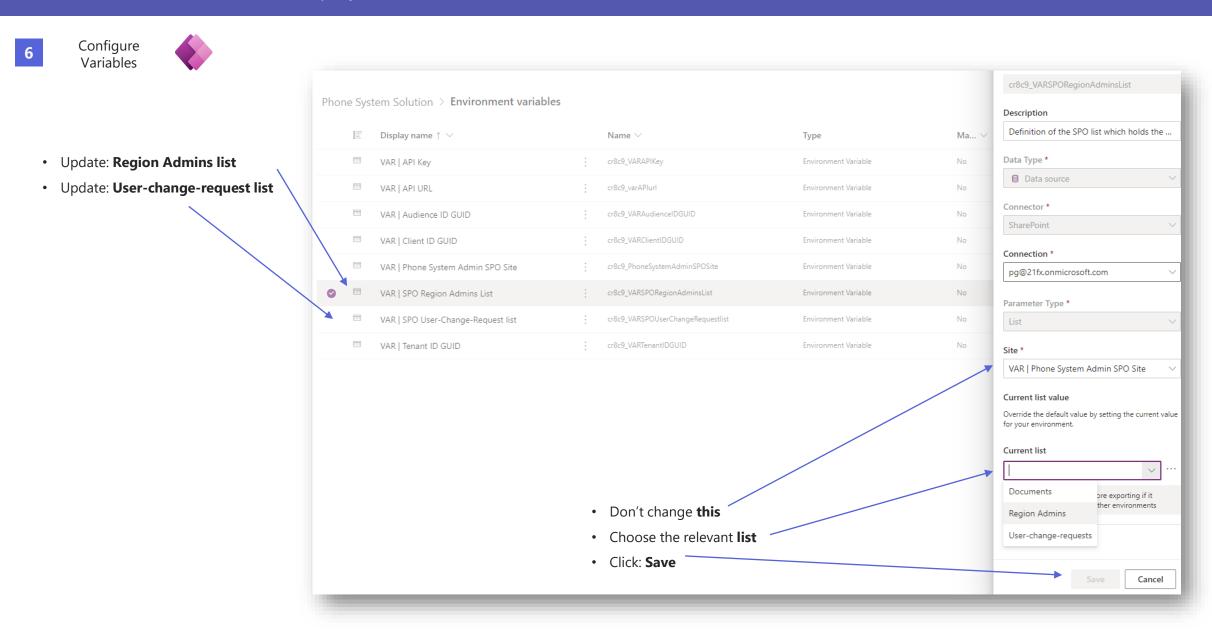


6 Configure Variables





Cancel



6

Configure Variables



• Update: VAR | API Key

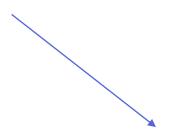
• Update: VAR | API URL

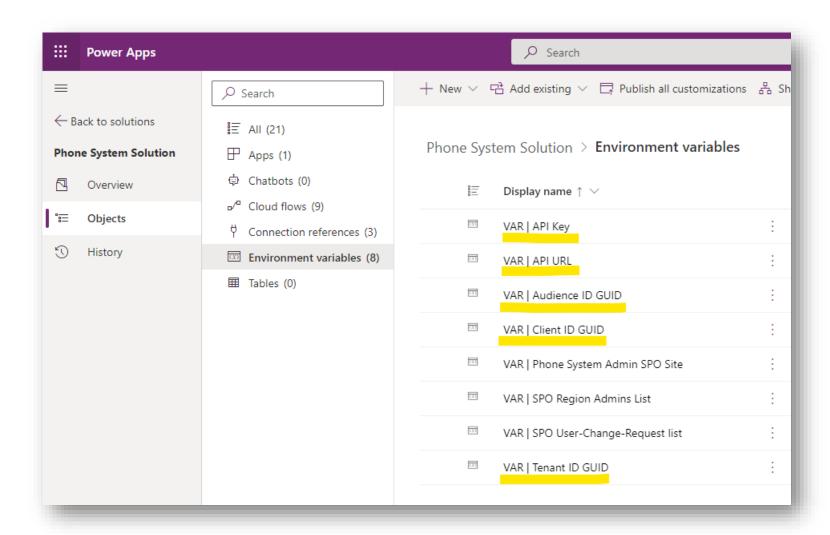
• Update: VAR | Audience ID

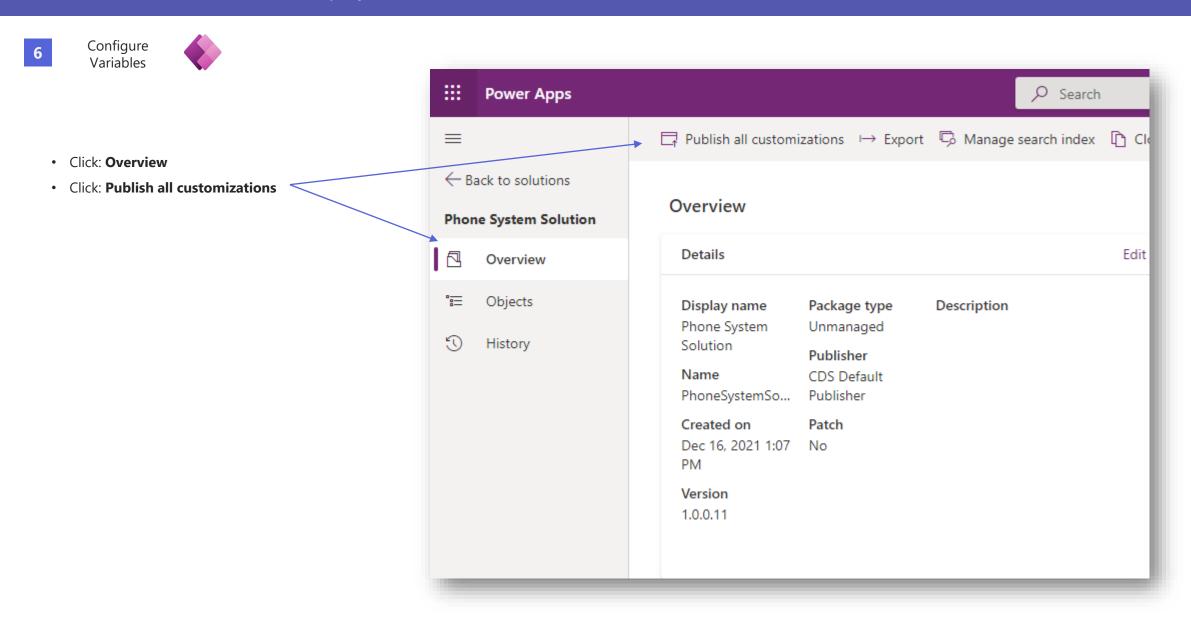
• Update: VAR | Client ID

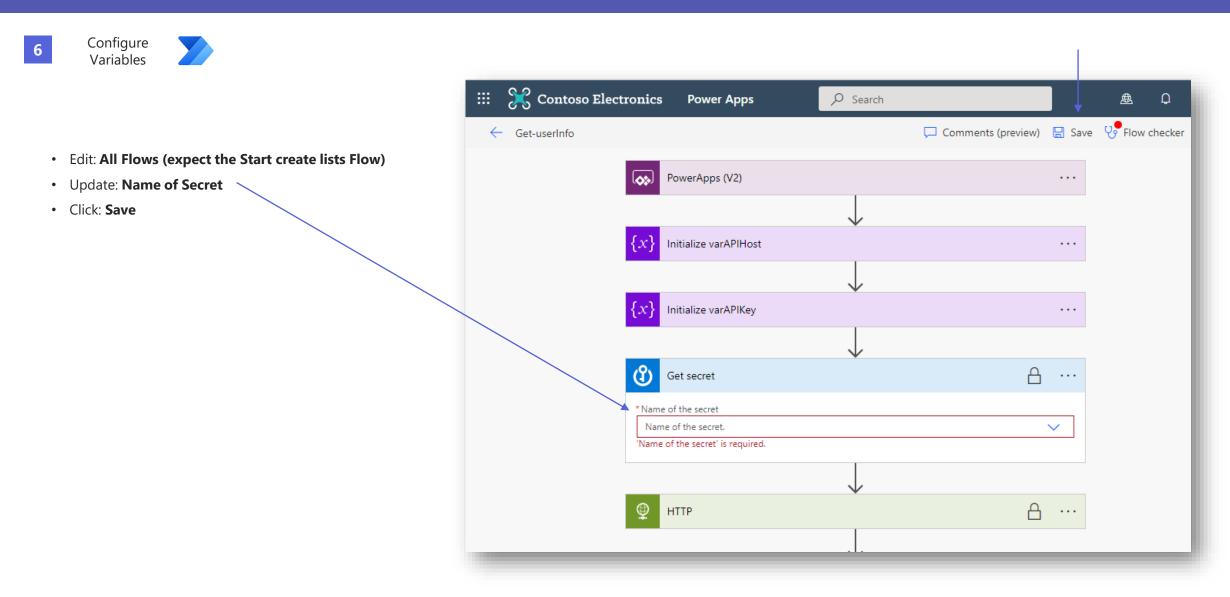
• Update: VAR | Tenant ID

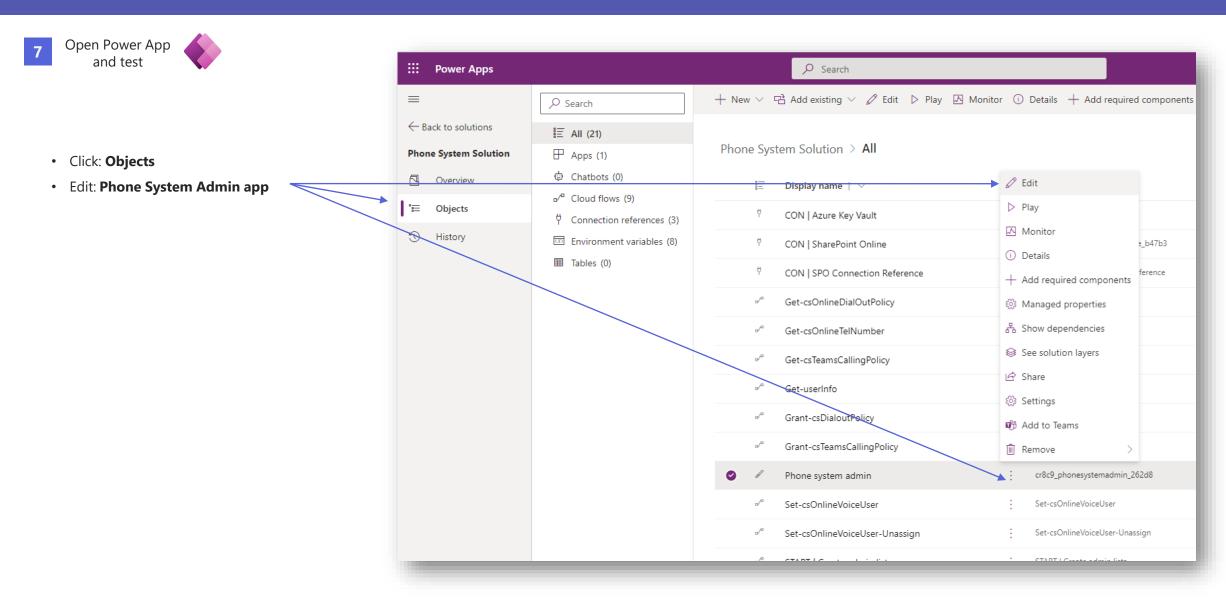
TIP: These values are provided at the end of deploying the Azure components







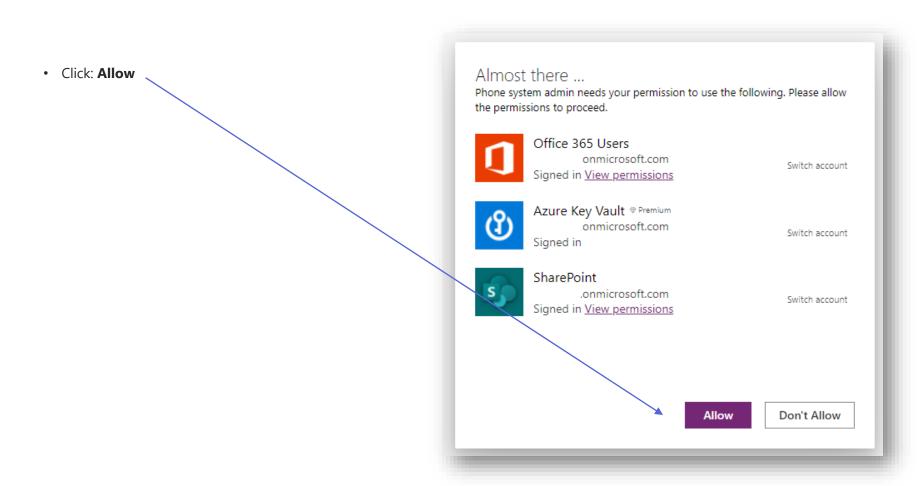






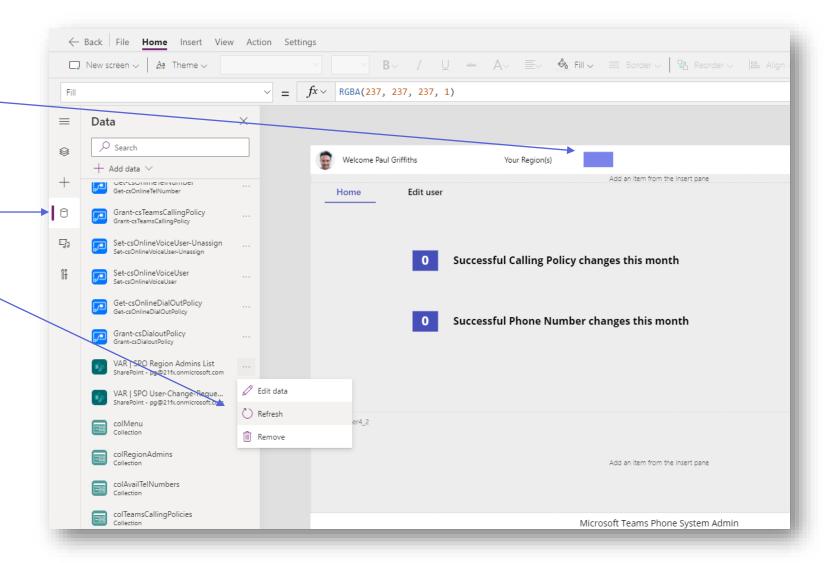
Open Power App and test

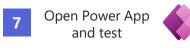


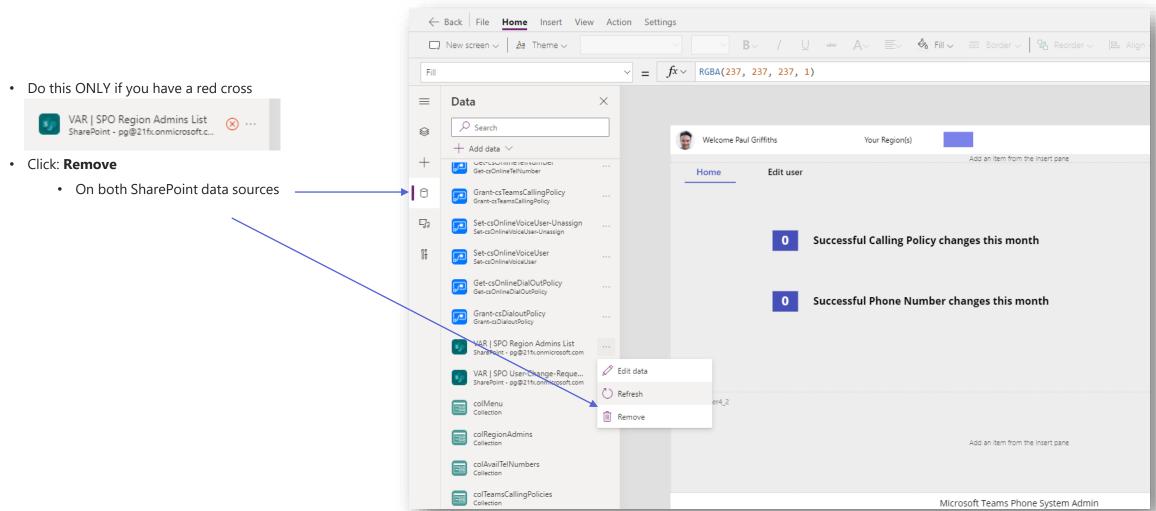


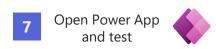
7 Open Power App and test

- Check: does your user show regions at the top of the screen?
 - If yes SharePoint is connected
 - If no, we need to test the connection
- Click: **Data Sources**
- Click: **3-dots** next to SharePoint
 - Refresh
 - If a red cross appears we need to remove the data source and add again

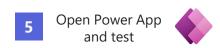


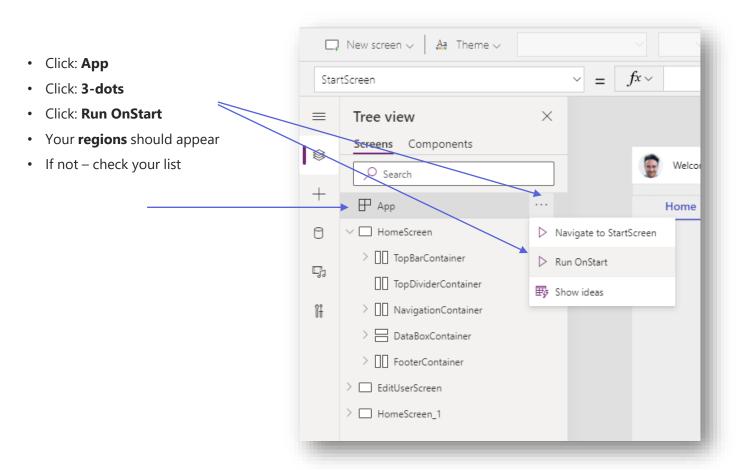


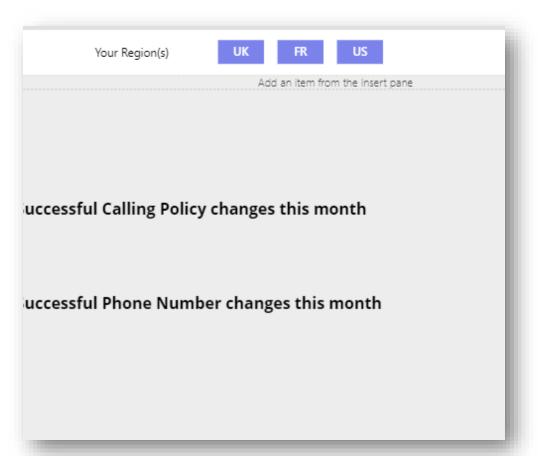


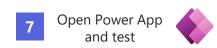


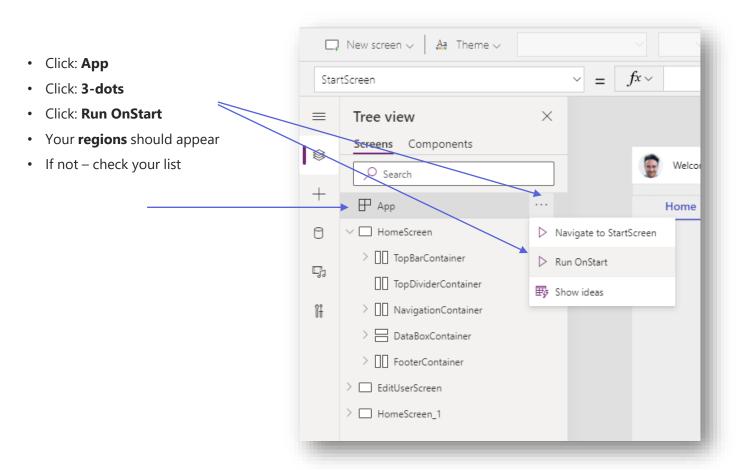
• Make sure you choose both **Advanced** ☐ New screen ✓ 🔠 Theme ✓ tabs when choosing the source Fill ← Connect to a SharePoint site ← Choose a list Data \times Enter the SharePoint URL for the location of your list. ∠ Search Learn more ∠ Search Advanced + Add data ∨ Lists Select a data source Connect using an existing environment variable. ① Recent sites Advanced 0 sharepoi ✓ ☑ VAR | SPO Region Admins List Connect using an existing environment variable. ③ ij SharePoint Sites ∠ Search Microsoft Dataverse ☑ VAR | SPO User-Change-Request list SharePoint helps organizations share and colla... VAR | Phone System Admin SPO Site Set-csOnlineVoicel Iser Tick both lists

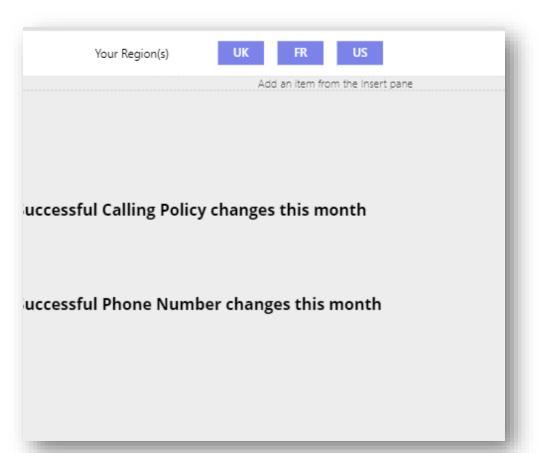














Open Power App and test





Your app should be fully functioning now

8

Deploy the app into Teams



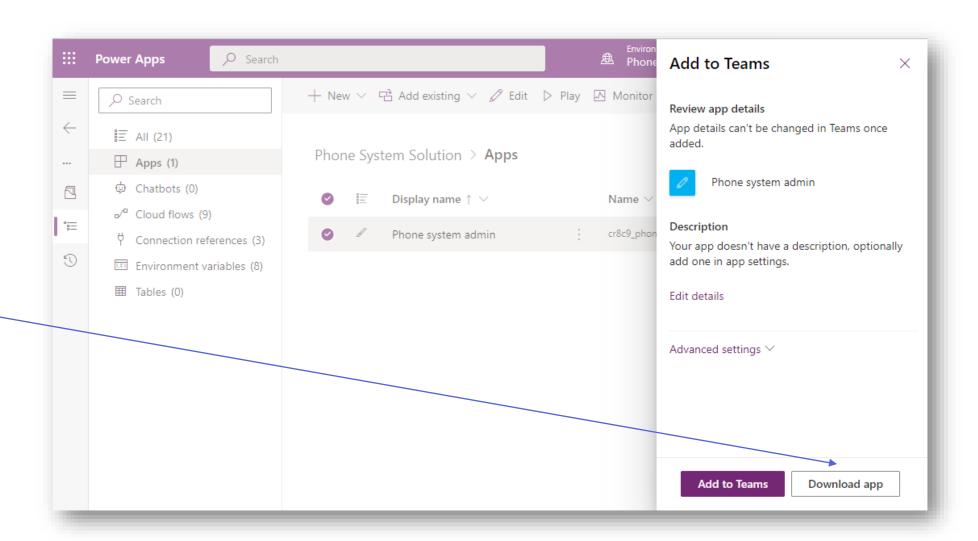
Click: Apps

Click: 3-dots next to app

Click: Add to Teams

Click: Download app

This creates a Zip file with a manifest file and icons. Upload this file to the Teams Admin Centre, and make available to users.



- The solution deployment is documented on GitHub here (temporary location) : <u>https://github.com/timoleo23/Teams-PhoneNumbersManager</u>
- The code is provide under MIT Licence

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