

Integrating Native Apps

Apart from hosting html5 apps, you can also put your native apps into DronaHQ. Even though the native app will not run inside DronaHQ and will have to be installed separately, integrating your native app with DronaHQ will allow you to leverage the Single Sign-On feature available on DronaHQ container.

Requirements from Native app

1. Custom URL scheme: The native app must register a custom URL scheme which will be used by DronaHQ app to invoke the native app.

There are two points of integration:

DronaHQ to Native App

When the admin adds a Native app from the Management Console, a new icon will appear on the user's homescreen on DronaHQ app. When user clicks on the new icon one of the below actions will happen:

1. If Native app is not installed, the DronaHQ app will redirect the user to a webpage, where they can download the app onto their device.
2. If Native app is installed, DronaHQ will invoke the native app using the custom URL scheme registered for this native app. DronaHQ will also pass 2 parameters while invoking the app, "uid" & "nonce". This uid & nonce will be used in SSO process which we will discuss later.

Native App to DronaHQ

If the user directly tries to open the native app for the first time, the native app should invoke DronaHQ in-order to let the user login into the app. While invoking DronaHQ, the native app should pass their custom URL scheme which will be used to invoke the native app once the user has authenticated into the DronaHQ app. If DronaHQ does not exist, user should be shown a message to download the DronaHQ app.

SSO

When DronaHQ invokes the native app, two parameters are passed to the native app, "uid" & "nonce". Once the native app has these parameters, follow below steps to authenticate the user with DronaHQ

1. Get profile of the user from DronaHQ using web api, /users/{userId}
2. If a success response is returned, use the email from response body to initiate with your API.
3. If error response is returned, handle it appropriately.

uid is the unique ID of the user in DronaHQ.

nonce is a random string valid for few minutes unique for that particular user.