How to set up Provisioning Identities with SCIM in Microsoft Active Directory

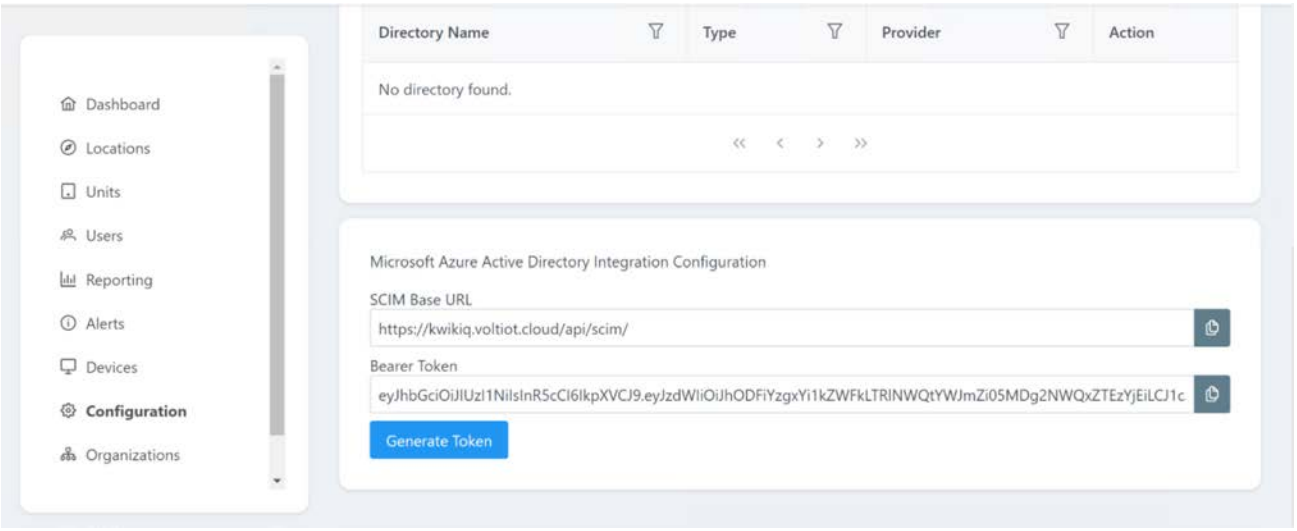
Azure AD -
Volt-IoT SCIM 2.0

The objective of this article is to demonstrate the steps to be performed in Volt-IoT SCIM 2.0 within Azure Active Directory (Azure AD) to automatically provision users in Volt-IoT Application

1. Login to your Volt-IoT super admin account access and select **Configuration** tab on the left-hand navigation bar.

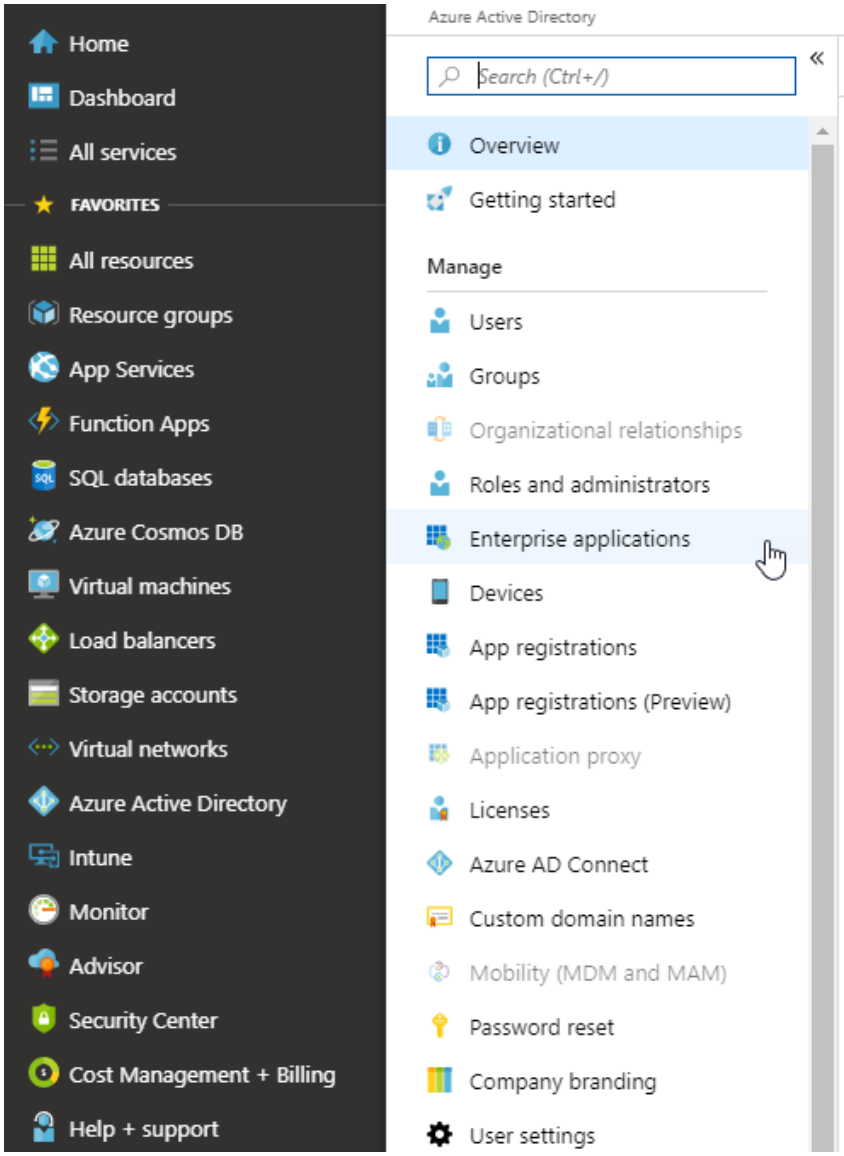
2. Scroll down and go to the section of Microsoft Azure Active Director Integration Configuration.

3. Press **Generate Token** to get token, copy the **SCIM Base URL** and **Token** to update in Azure Portal

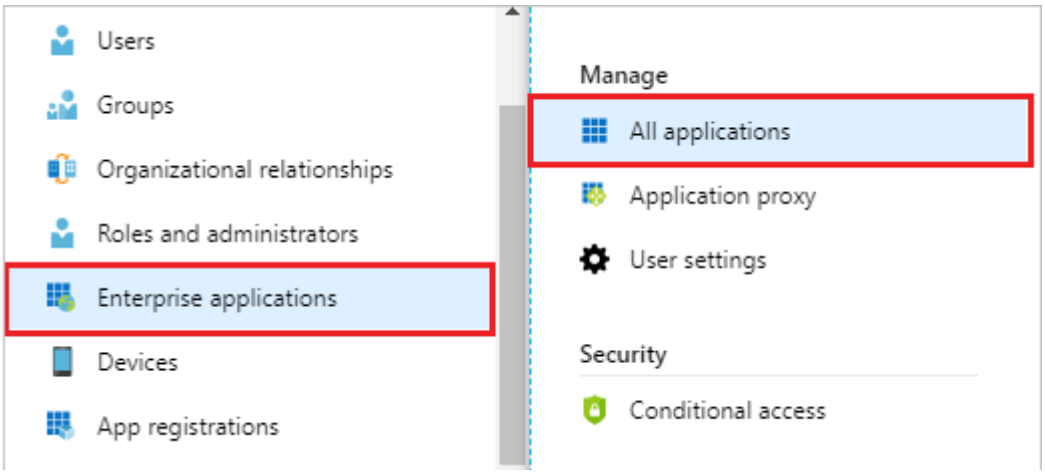


4. Go to your Azure Portal and sign in (**Important:** make sure you are in the correct directory!)

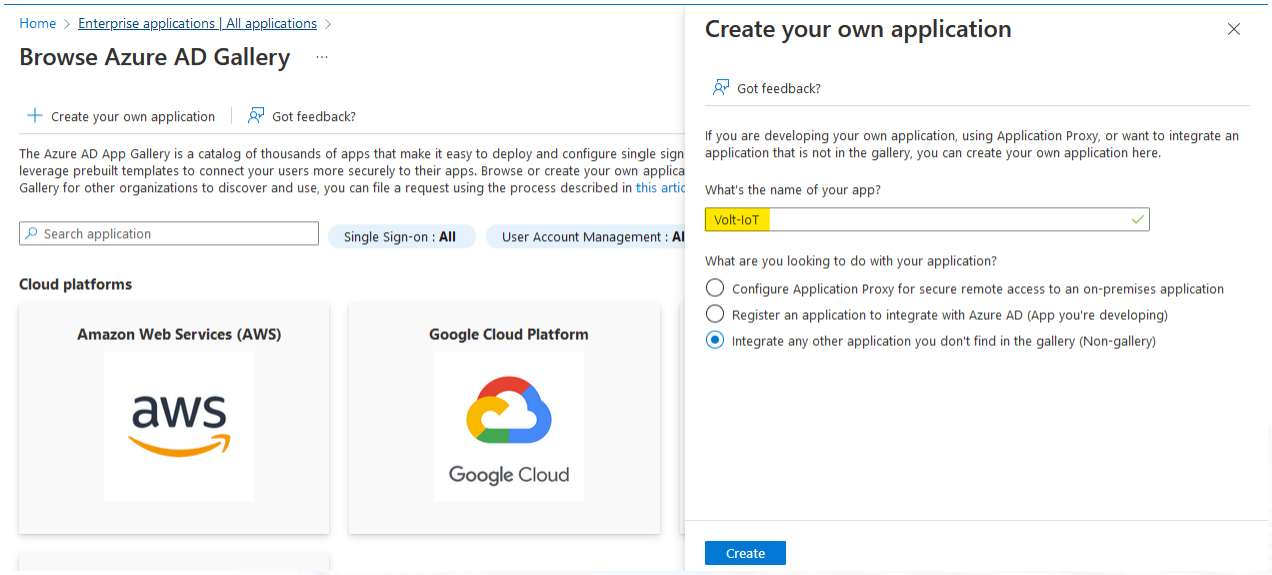
5. In the left navigation panel, select **Azure Active Directory**



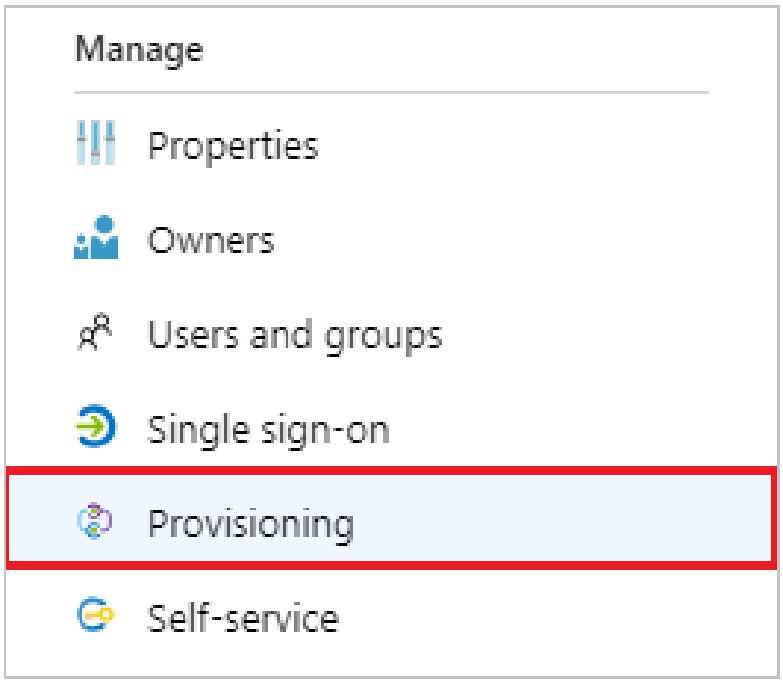
6. Navigate to **Enterprise applications**, and then select **All applications**.



7. To add a new application, select the **New Application** button at the top of the pane.
8. Click **Create your own application** and on the right panel type the name of your custom non-gallery app and click **Create** button.

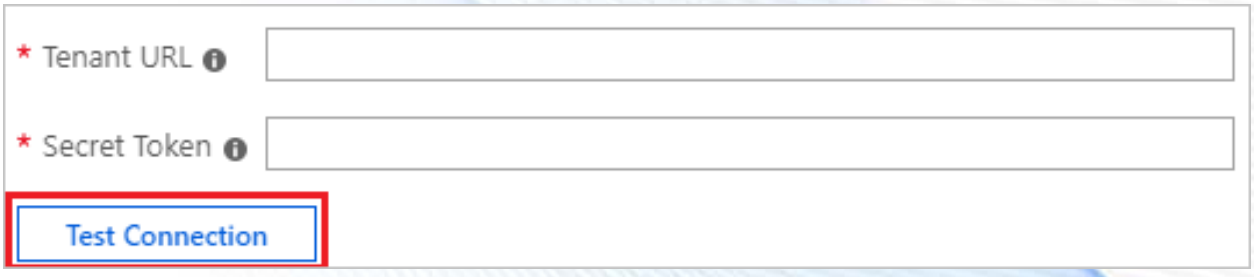


9. Once the Application is added to your directory, navigate to the **Provisioning** tab

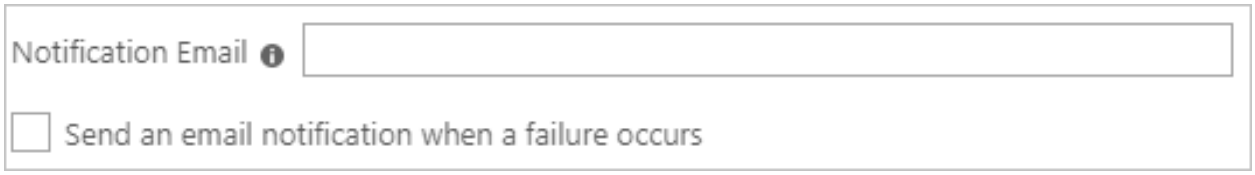


10. Set the **Provisioning Mode** to **Automatic**.

11. Under the **Admin Credentials** section, paste your SCIM Base URL from your Volt-IoT Configuration tab `https://{yoursubdomain}.voltiot.cloud/scim/api` in **Tenant URL**. Paste the Bearer Token value from your Volt-IoT in **Secret Token**. Click **Test Connection** to ensure Azure AD can connect to Volt-IoT. If the connection fails, contact to Volt-IoT support.

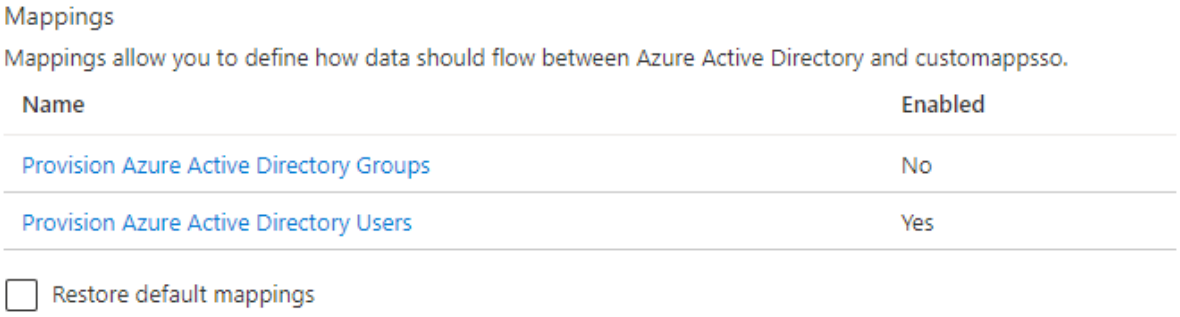


12. In the **Notification *Email*** field, enter the email address of a person or group who should receive the provisioning error notifications and check the checkbox - **Send an email notification when a failure occurs**.

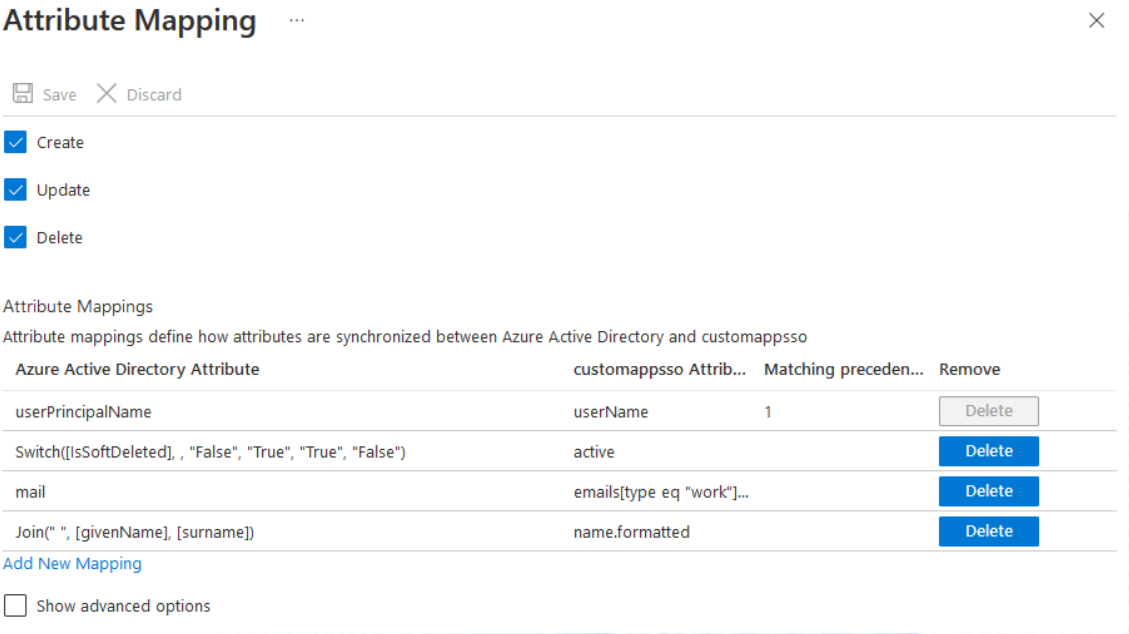


13. Click **Save**

14. Under the **Mappings** section, select **Provision Azure Active Directory.**



15. Keep the following source **Attributes** and delete the rest.

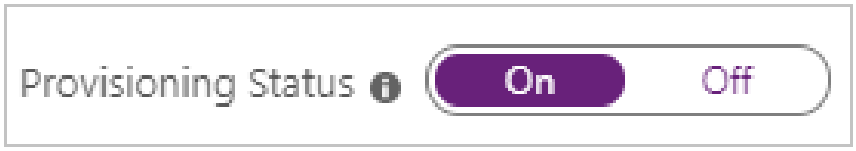


16. Review the Users attributes that are synchronized from Azure AD to Volt-IoT in the **Attribute Mapping** section. The attributes selected as **Matching** properties are used to match the users in Volt-IoT for update operations. Select the **Save** button to commit any changes.

> - Ensure that the Azure Active Directory attributes shown in the list on the left are good sources for the information to send to Volt-IoT. In particular, not all environments set the mail attribute. If your environment does not set the mail attribute, userPrincipalName could be a good alternative.

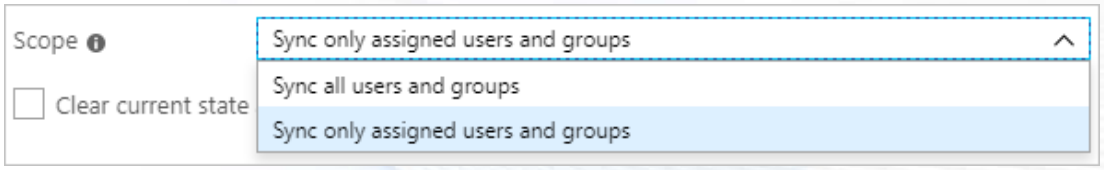
17. To configure scoping filters, refer to the following instructions provided here

18. To enable the Azure AD provisioning service for Volt-IoT, change the **Provisioning Status** to **On** in the **Settings** section.



19. Define the users that you would like to provision to Volt-IoT by choosing the desired values in **Scope** in the **Settings** section.

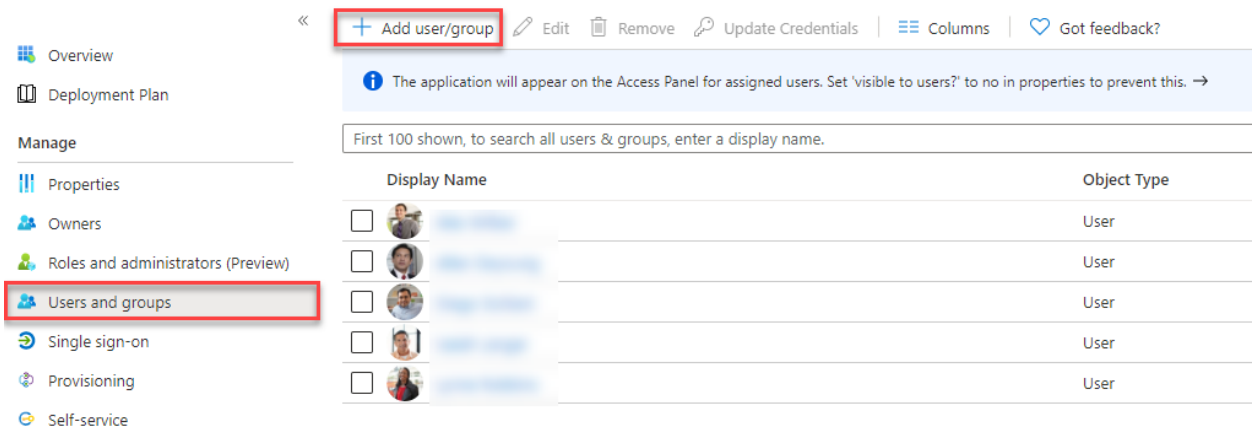
> - It is recommended to keep the scope to Sync only assigned users, if you would like to sync the entire Azure Directory users you can select Sync all users and groups option.



20. When you are ready to provision, click **Save**.

21. Should you have opted in for **Sync only assigned users and groups,** as recommended. Please navigate back to **Users and Groups** section of the App to add relevant users and/ or groups

- When assigning a user to Volt-IoT SCIM, you must select any valid application-specific role (if available) in the assignment dialog. Users with the **Default Access** role are excluded from provisioning.



Note

- This operation starts the initial synchronization of all users and/or groups defined in Scope in the Settings section. The initial sync takes longer to perform than subsequent syncs, which occur approximately every 40 minutes as long as the Azure AD provisioning service is running.

- You can use the Synchronization Details section to monitor progress and follow links to provisioning activity report, which describes all actions performed by the Azure AD provisioning service on Volt-IoT.