Integrate Azure OpenID Connect

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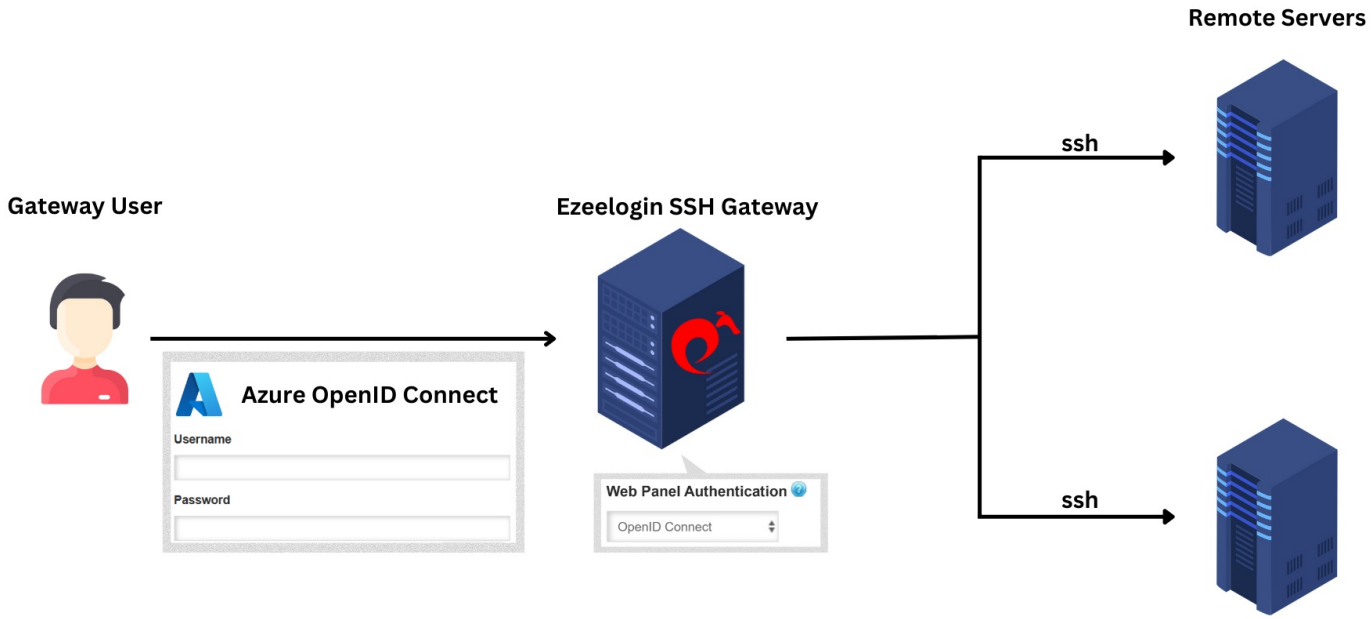
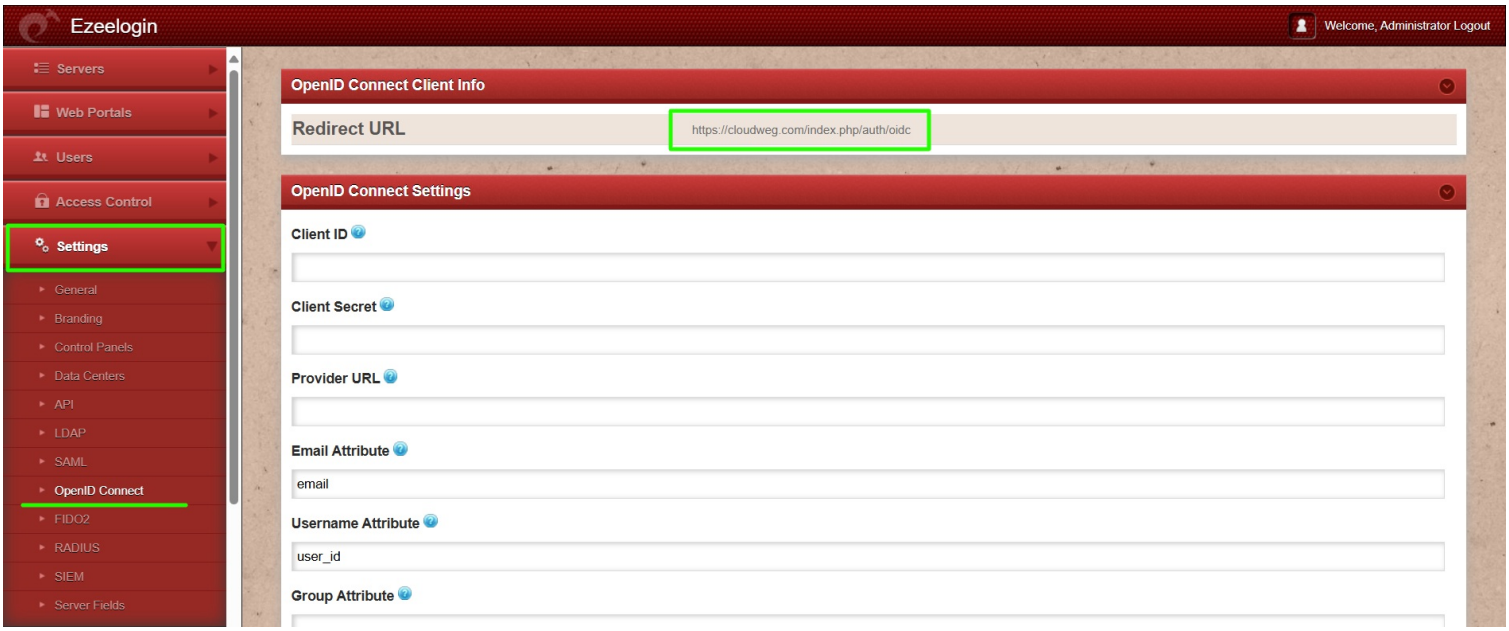
How to integrate Azure OpenID connect with Ezeelogin jumpserver?

Overview: This article will help Ezeelogin super admin user to integrate Azure OpenID Connect with the Ezeelogin jump server.

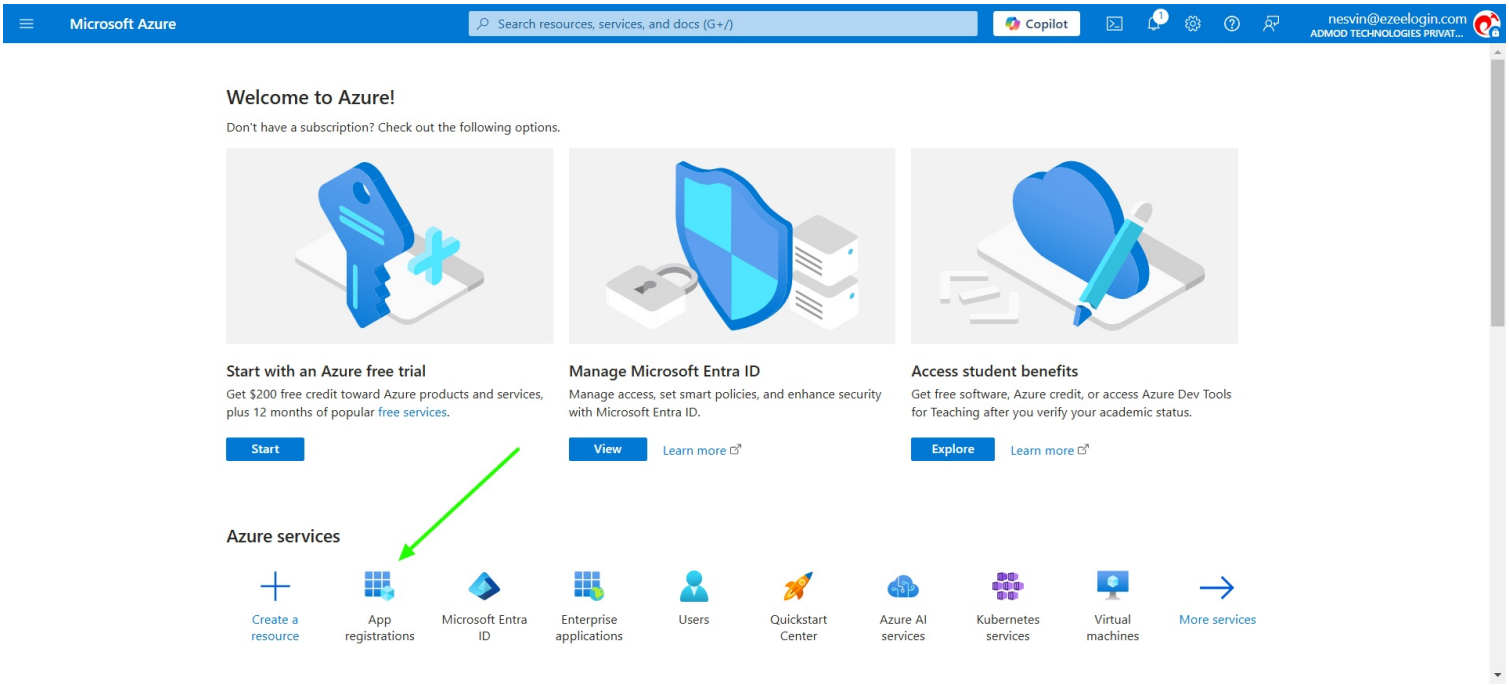
Note: OpenID connect is an authentication mechanism for web applications. It's based on web protocols and it cannot be used for user authentication over SSH.



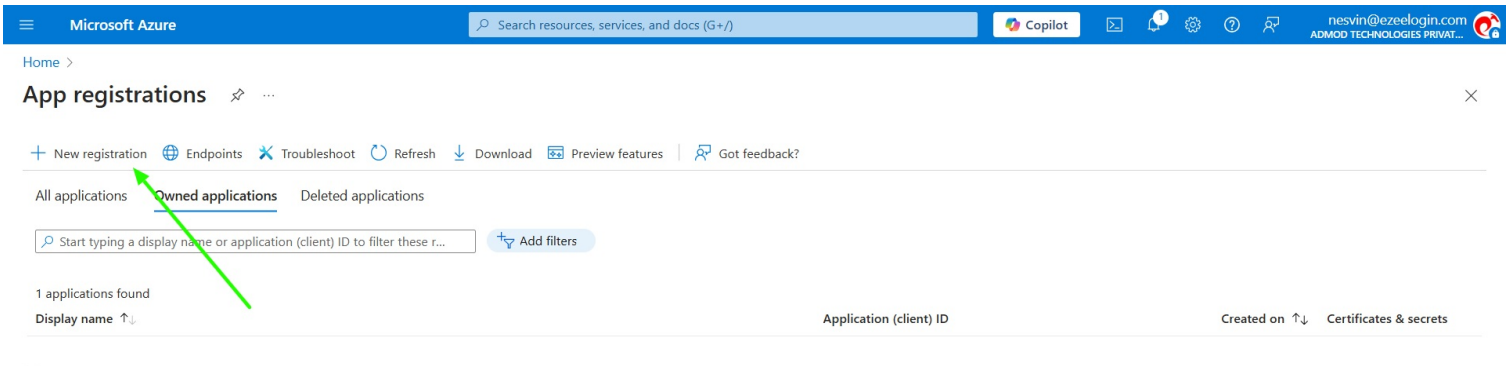
Step 1: Login to **web GUI** and click on **Settings** -> **OpenID Connect** and copy '**redirect URL**'.



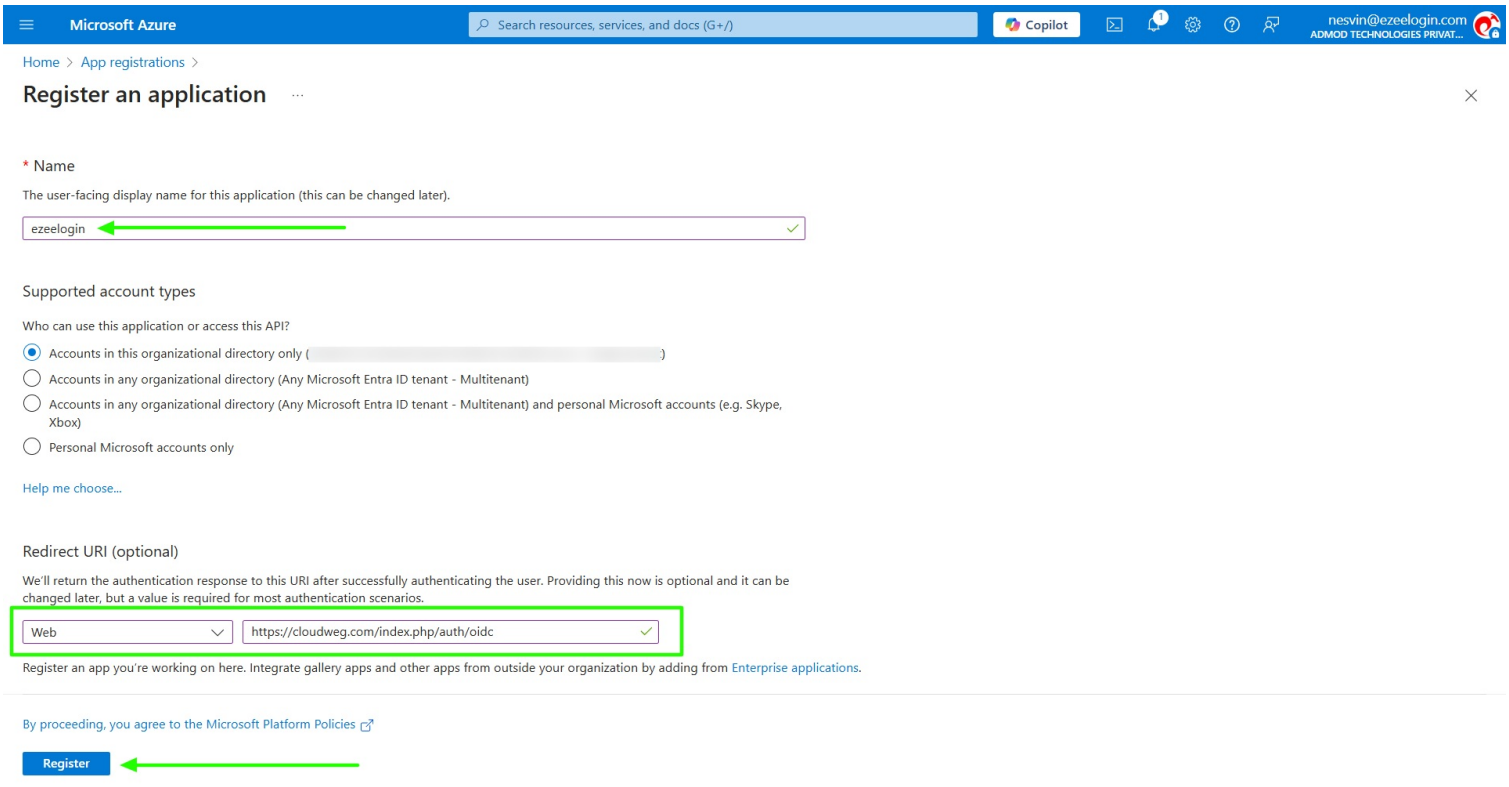
Step 2: Login to **Azure portal** and select '**app registration**'.



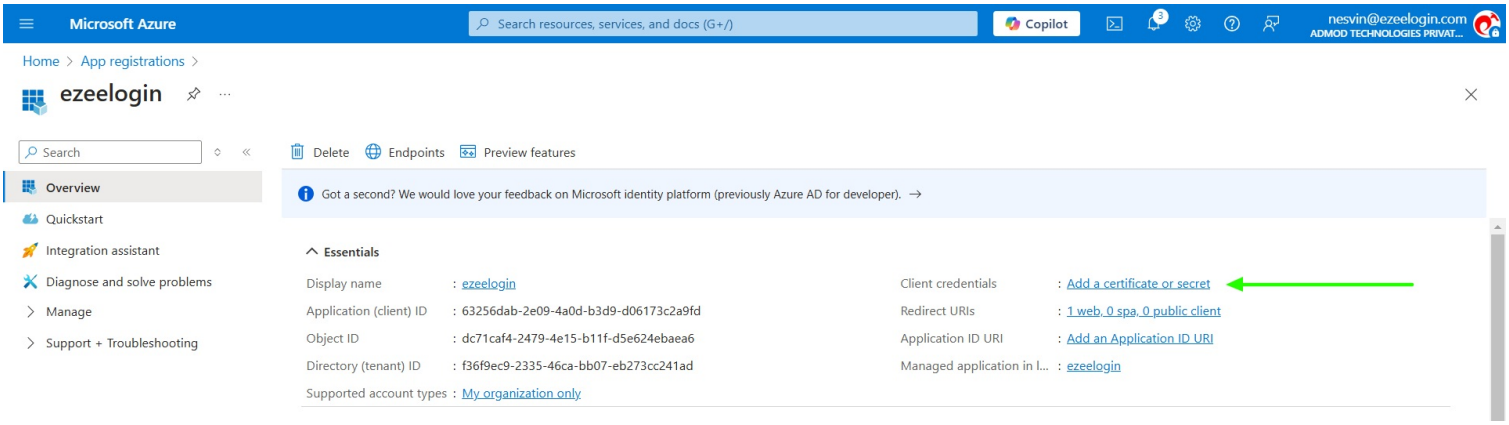
Step 3: Register new application.



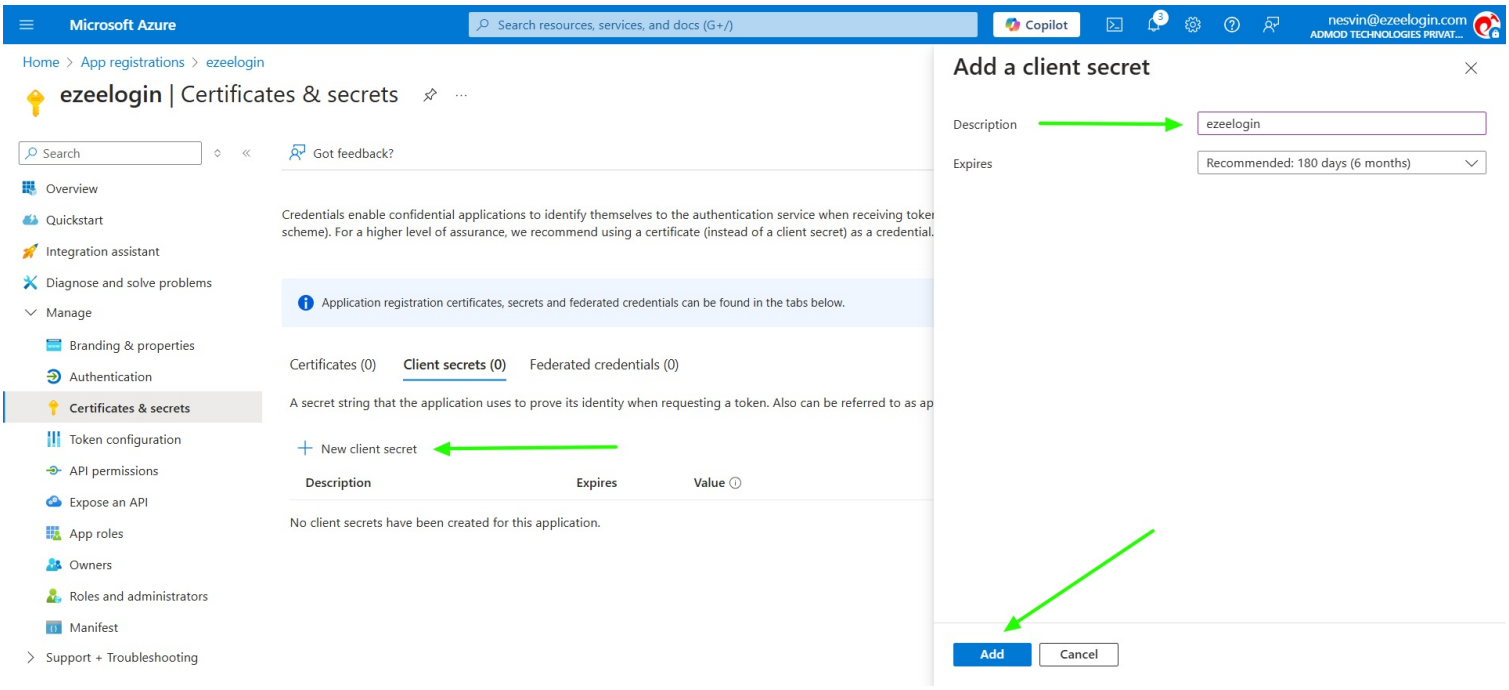
Step 4: Provide the **application name** and select the **supported account type**. Under the **redirect URL**, select "**Web**" and paste the **OIDC URL from Ezeelogin**.



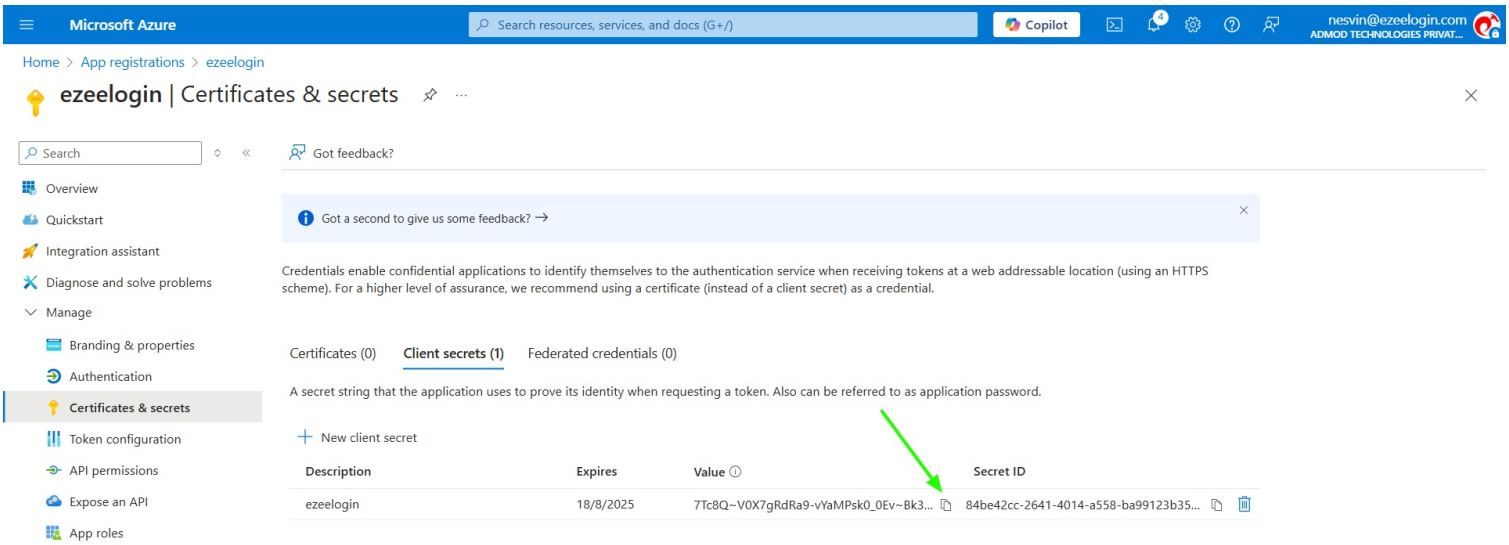
Step 5: Click on "**Add a certificate or secret**" to create a new client secret.



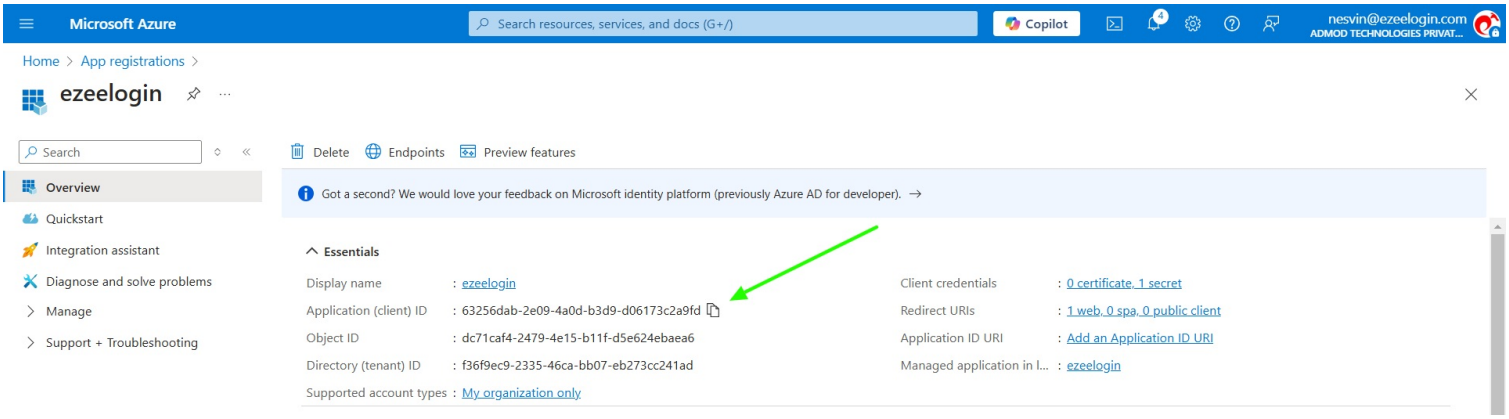
Step 6: Click on "**New client secret**", provide a name, and click "**Add**" to **generate a new client secret**.



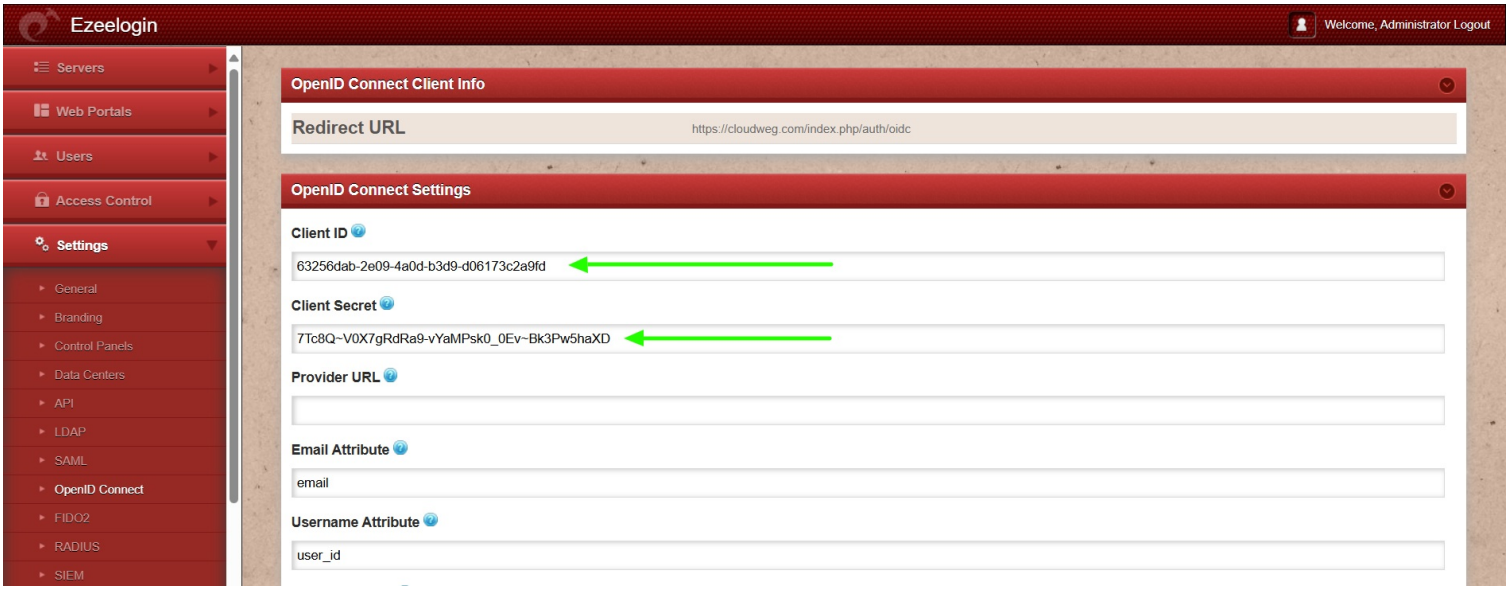
Step 7: Copy the **secret value** from the list and **paste** it into the web GUI OpenID Connect settings. (It will be displayed as encrypted after some time.)



Step 8: Copy the **Client ID** from the **Overview** tab and paste it into the **web GUI OpenID Connect settings.**



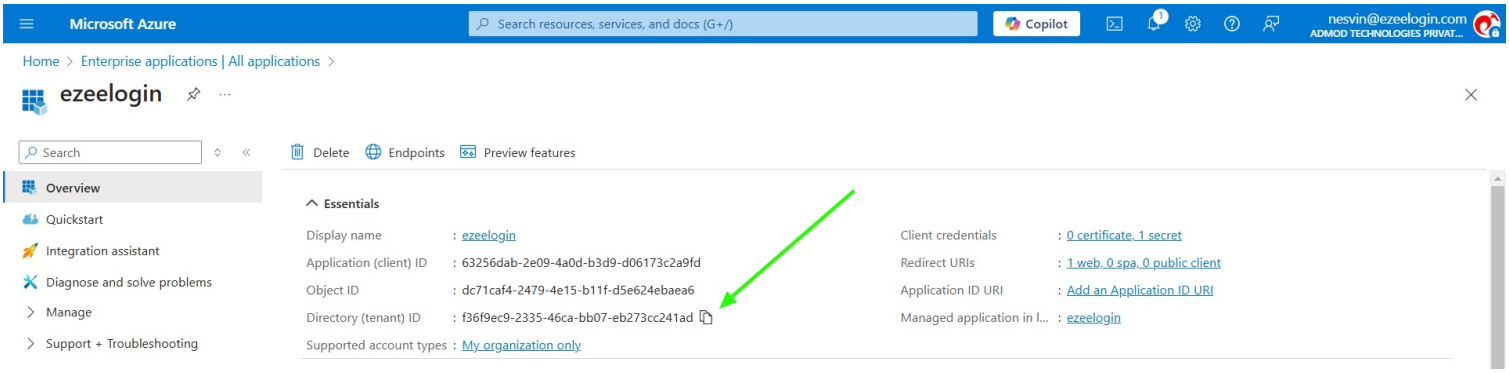
Step 9: Paste the client ID and **client secret** from **Azure to web GUI OpenID connect settings**.

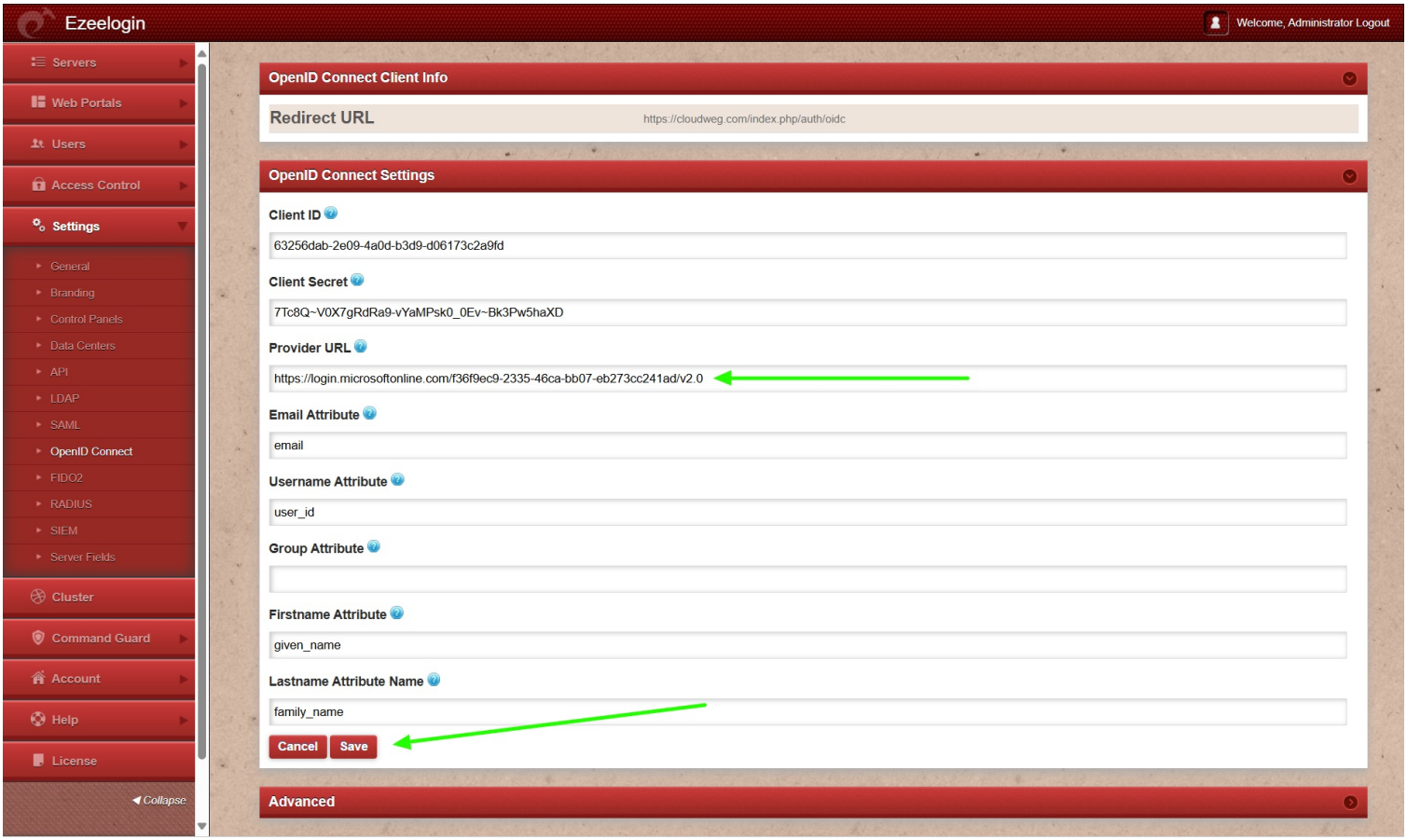


Step 10: Copy the **Tenant ID** from Azure and paste it into the **Provider URL field in the web GUI OpenID Connect settings**, as shown in the example below:

Provider URL: https://login.microsoftonline.com/{tenant}/v2.0

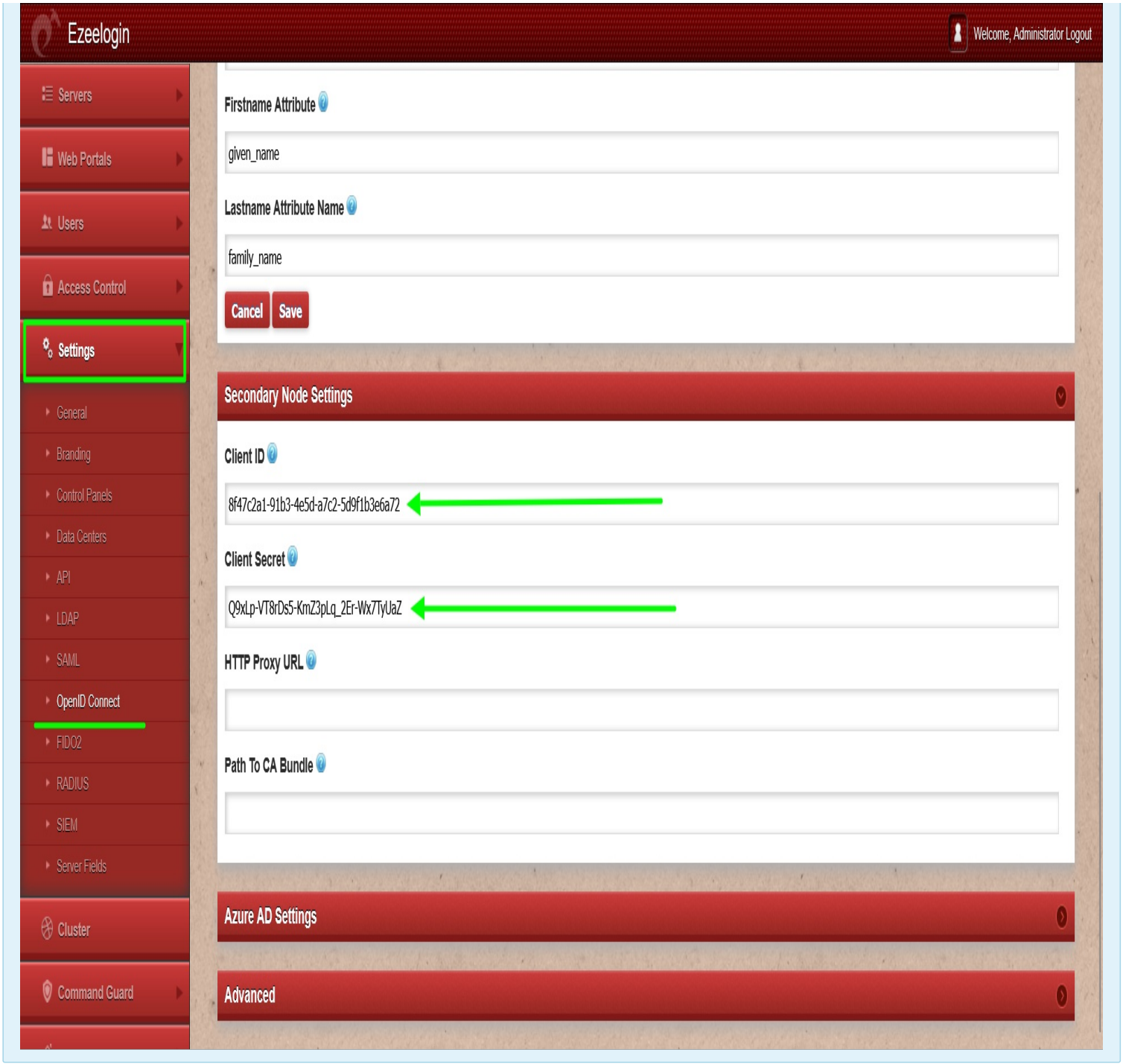
Example: https://login.microsoftonline.com/f36f9ec9-2335-46ca-bb07-eb273cc241ad/v2.0



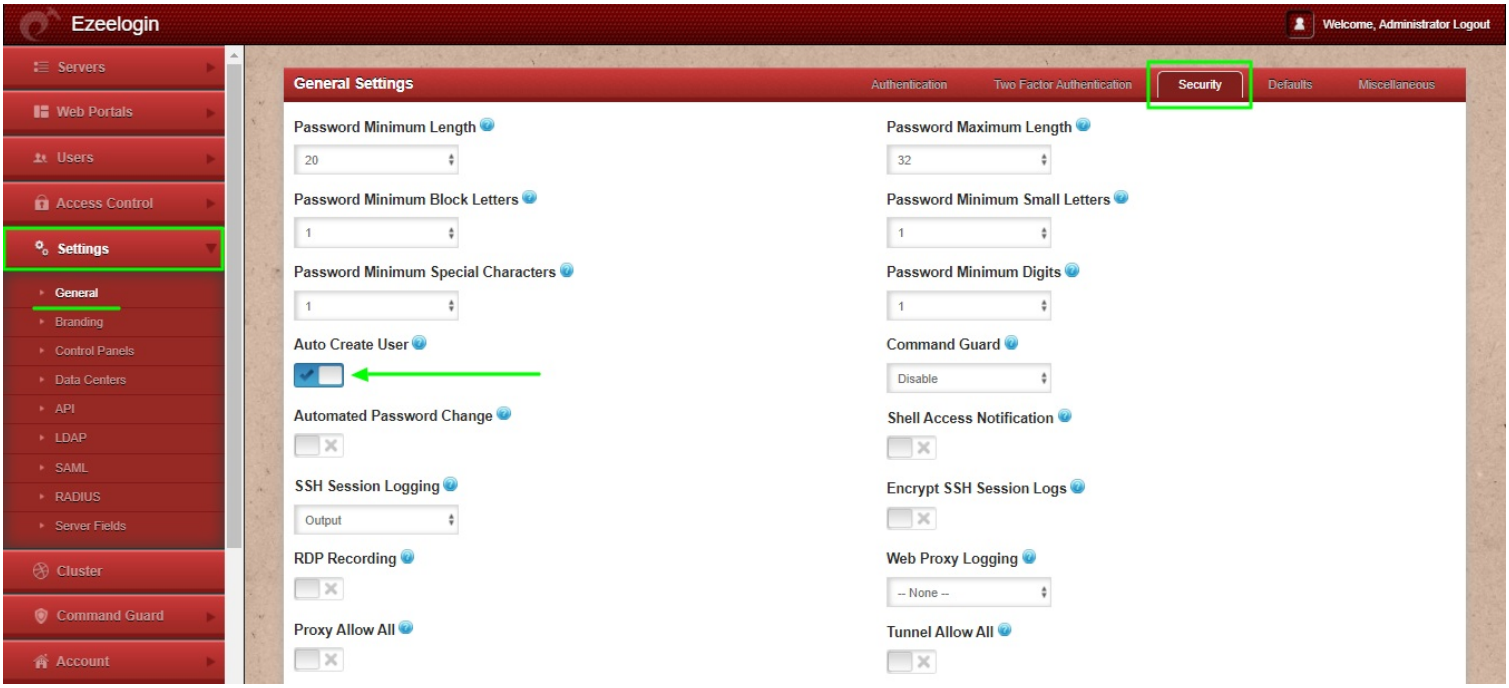


For cluster, add the Client ID and Client Secret from the other OIDC configuration:

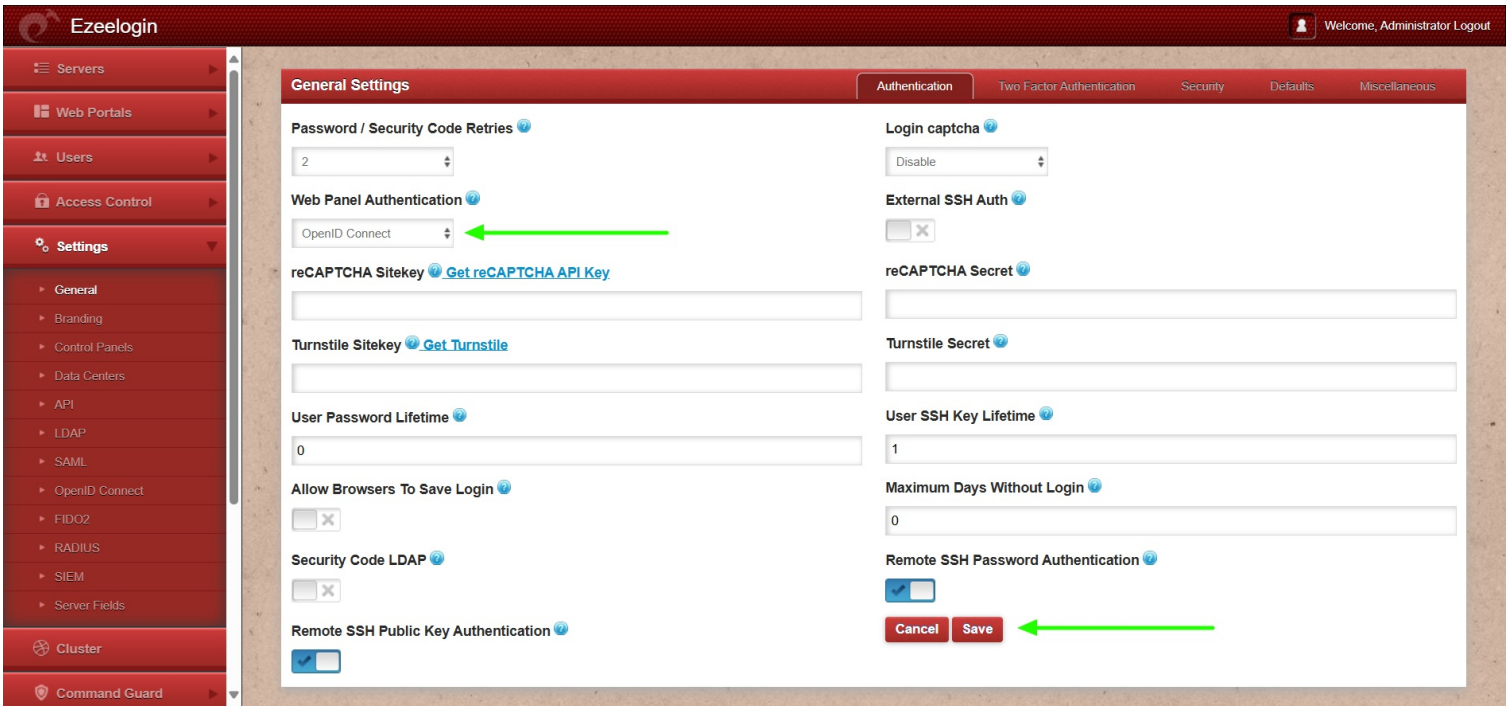
Follow steps 1 to 9 to create new application for secondary node. While adding the application details in Azure, replace the IP address with the secondary node's IP address.



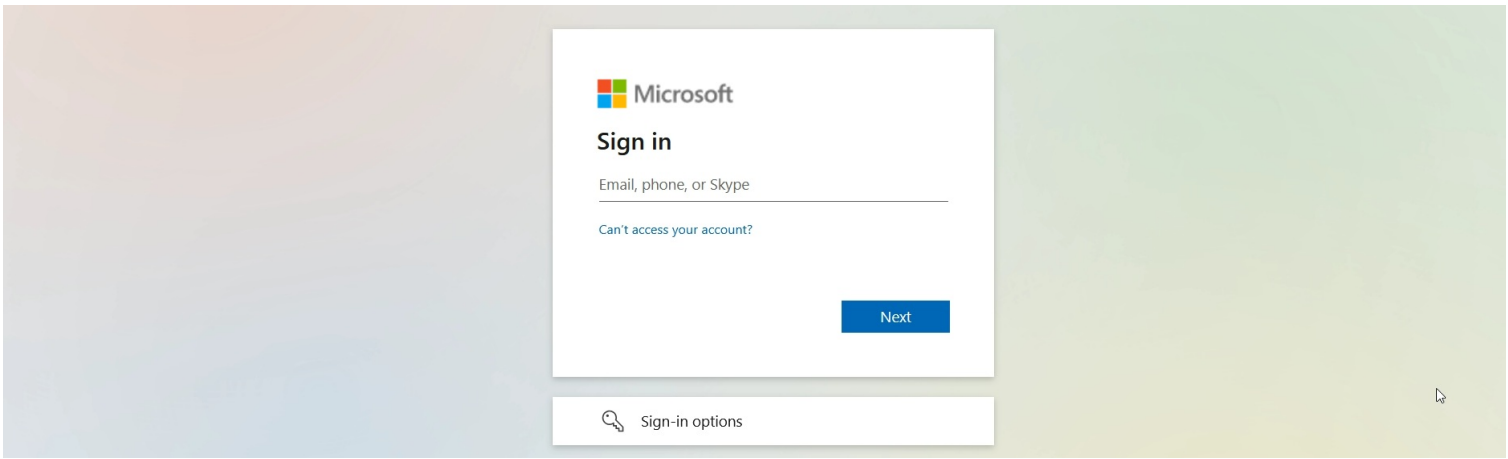
Step 11: Enable Auto Create User from **web GUI** -> **Settings** -> **General** -> **Security** -> **Enable Auto Create User**, so the user will automatically created after successful authentication from Azure.



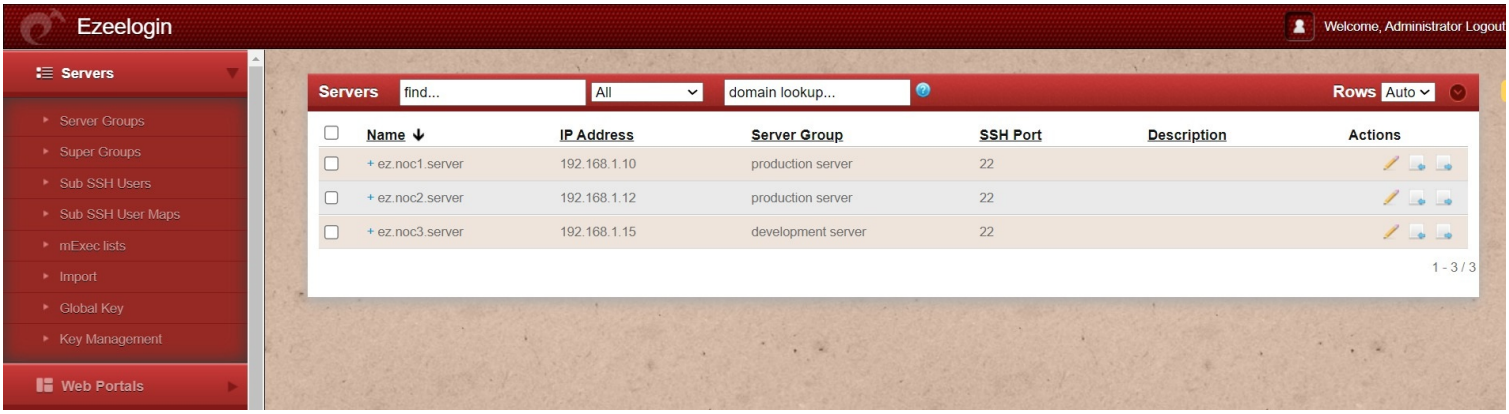
Step 12: Set **Web Panel Authentication** to **OpenID Connect** under **Settings** -> **General** -> **Authentication** -> **OpenID Connect**.



Step 13: Login into **web GUI** and you will be prompted with the **Microsoft Azure login Page** where you will need to enter the login credentials to be authenticated into the Ezeelogin Application.



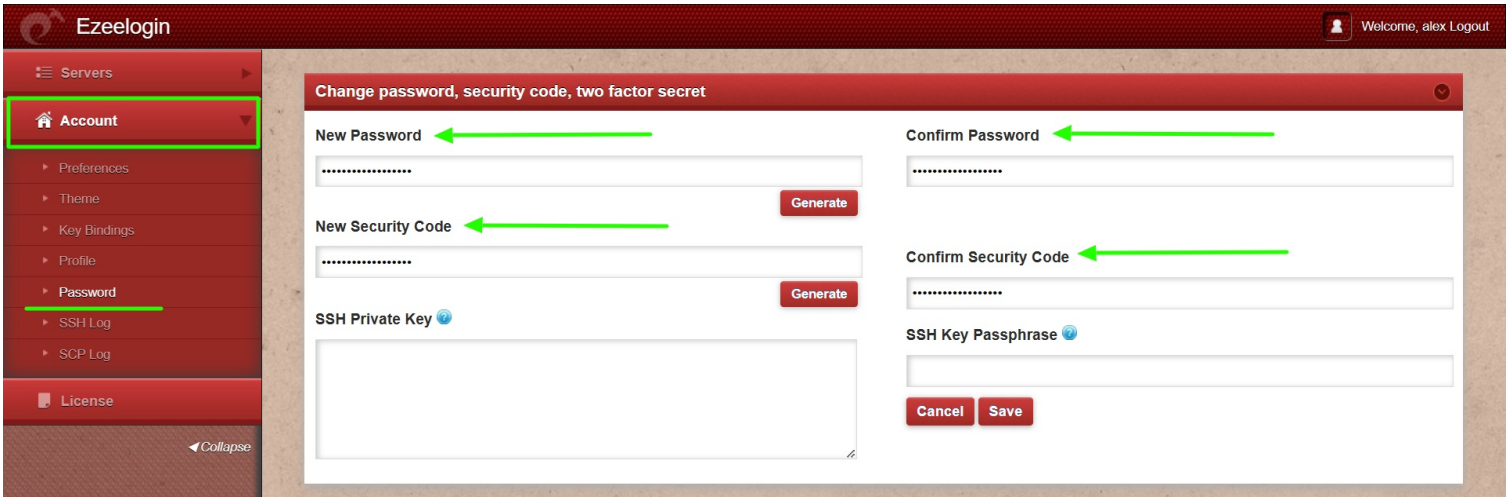
Step 14: Finally, you will be logged into the **web GUI using OpenID Connect Authentication**. The user will be created automatically on Ezeelogin after successful authentication from Azure.



For gateway users who require administrative access, the password must be set manually from the Ezeelogin GUI. Refer below article:

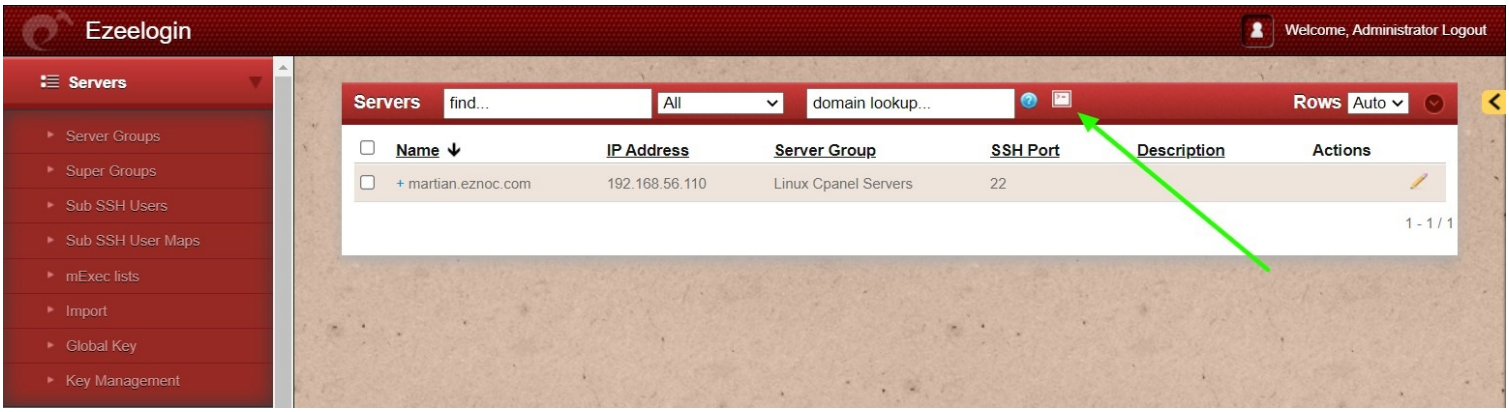
Error: Invalid password

Step 15: After logging into the GUI, reset the password and security code of the user under **Account** -> **Password** in order to SSH to the ezsh shell.



Step 16: You can log in to **Ezeelogin shell** via **Webssh** shell or using any **SSH client** such as Putty or terminal etc.

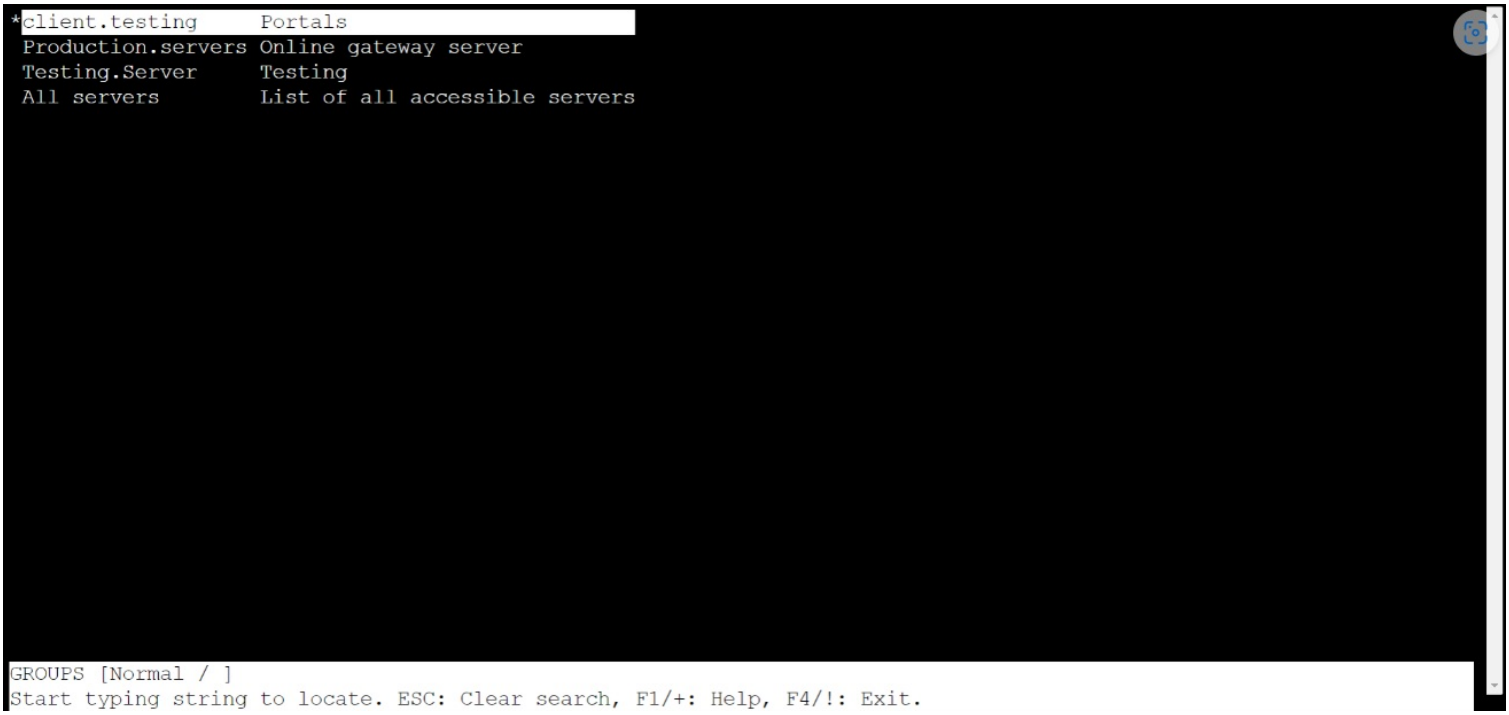
Step 16(A): WebSSH: Click on the '**Open Web SSH Console**' icon to SSH via the browser.



Step 16(B): Native SSH Client: After resetting the password and security code you can **SSH to the ezsh shell** (using Terminal or Putty) with the **OpenID connect username**.

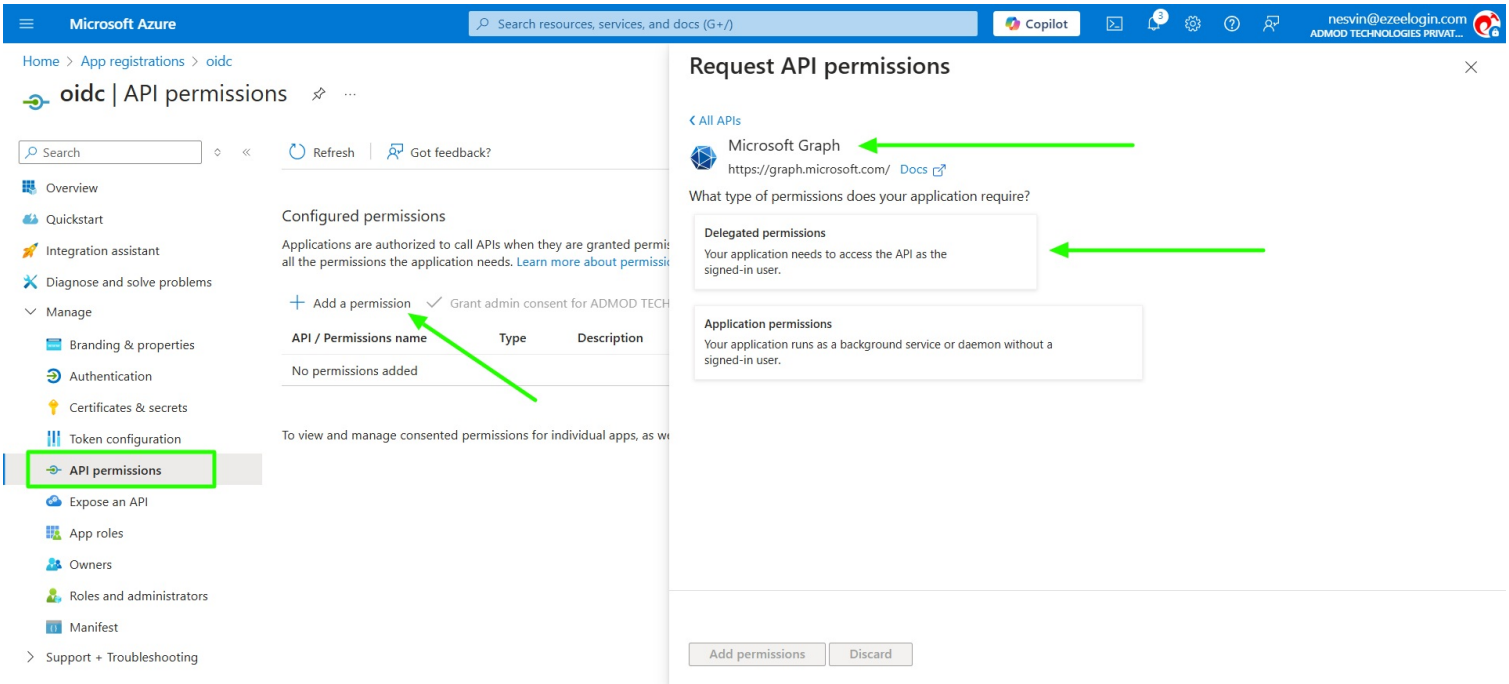
```
                    : $ ssh alex@adezeelogin.com
alex@adezeelogin.com's password:
```

Step 17: After logging into ezsh, the server list will be visible. The user can navigate using the Up and Down arrow keys and select a server using the Enter key.

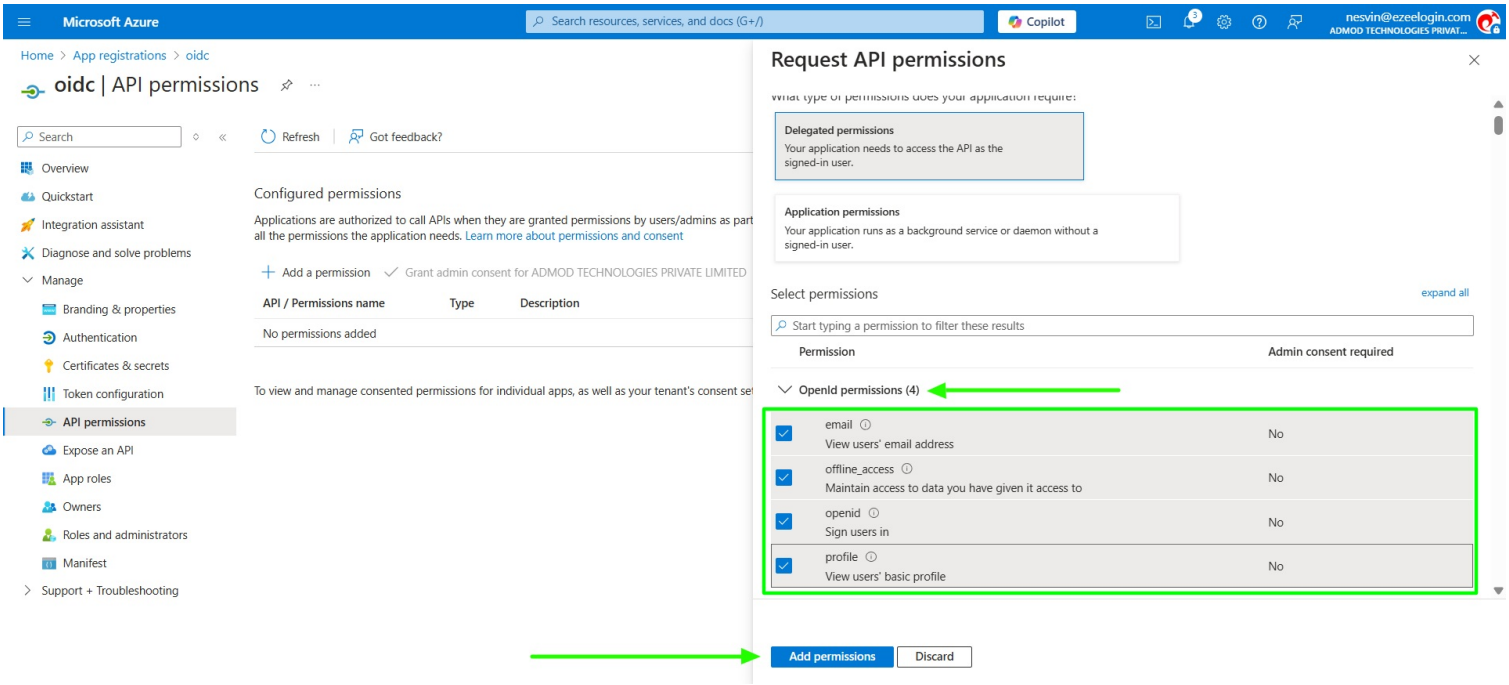


How to add scope from Azure OpenID connect to Ezeelogin jumpserver?

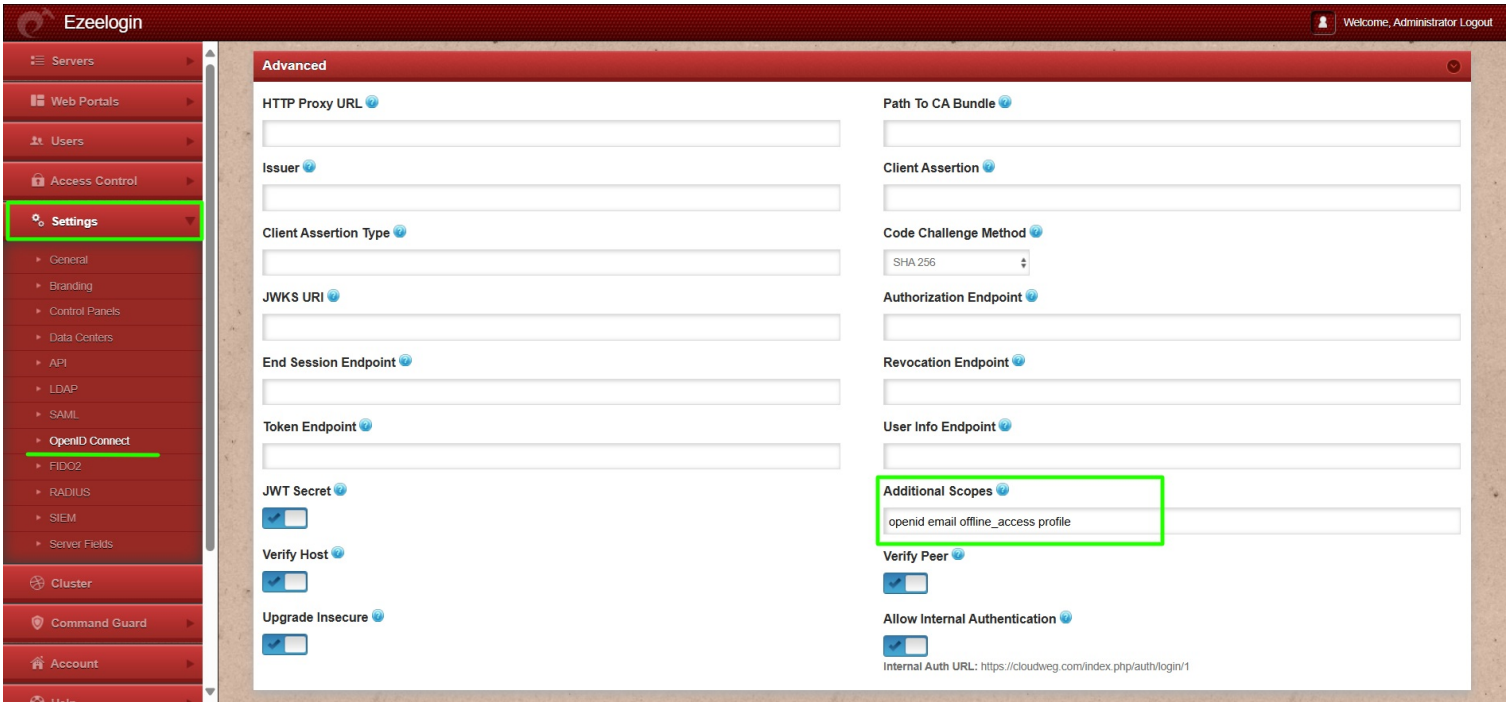
Step 1: Navigate to **API permissions** -> **add a permission** -> **Micrograph graph** -> **Delegated permissions**



Step 2: Under **OpenID permissions** select **required scopes and save the permissions**.



Step 3: Login to web GUI, go to **OIDC advanced settings**, add the **scopes separated by spaces**, and **save the settings**.



How to map a user from Azure OpenID Connect user group to Ezeelogin user group?

Note:

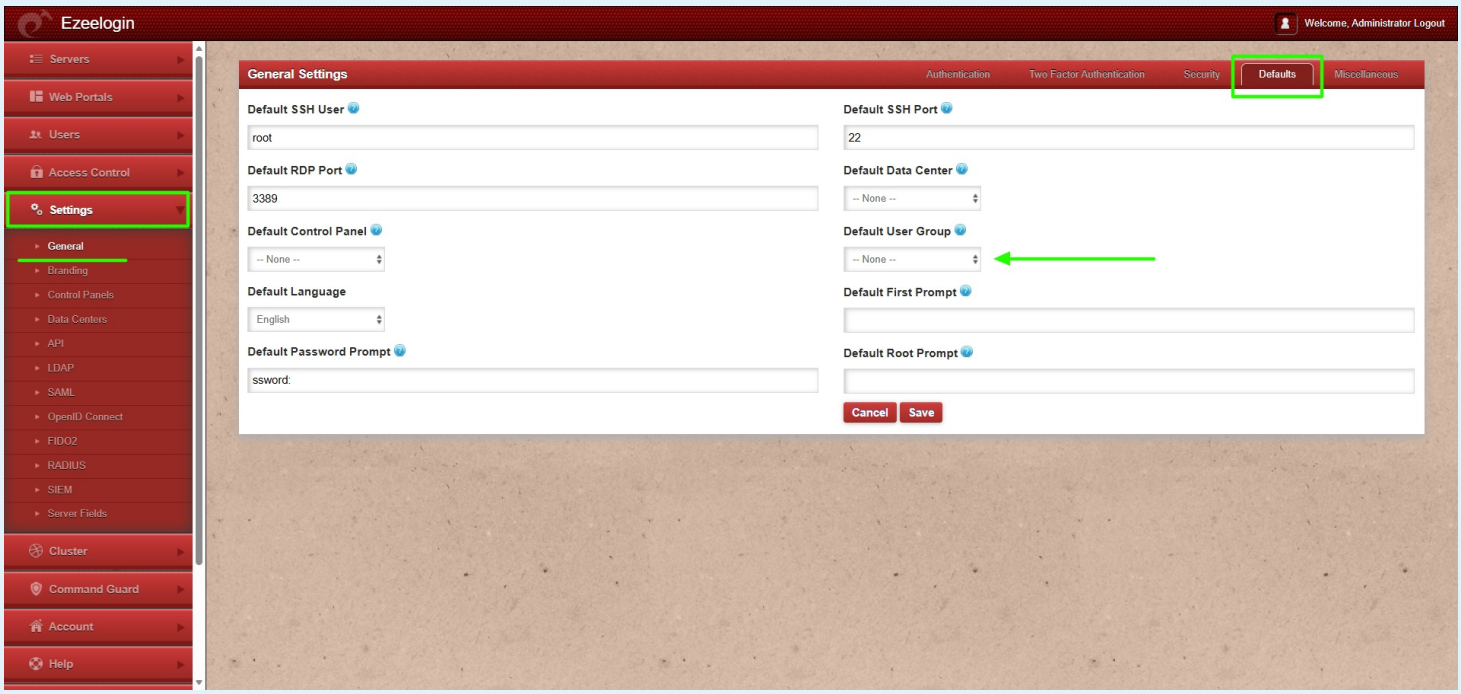
User attributes (such as groups and other mapped fields) are automatically updated in the Ezeelogin GUI when a user authenticates again. **If any attribute of an existing OIDC user is modified in the identity provider after the user has already logged in, the updated values will be reflected in the GUI only after the user logs out and logs in again.**

For example, if a user is moved from one group to another in the OIDC provider (such as Microsoft Azure), the change will automatically be updated in the Ezeelogin GUI after the user successfully re-logs in.

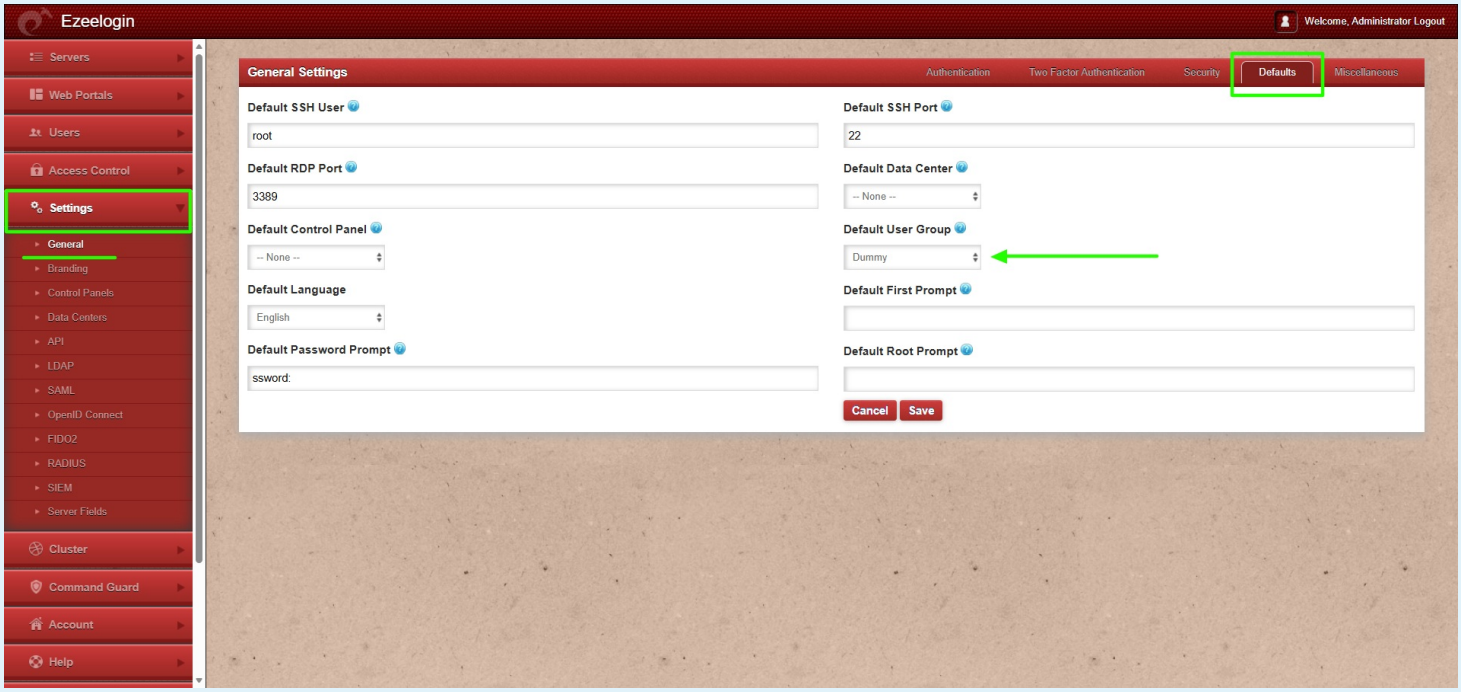
This feature is available from Ezeelogin version 7.46.0. Refer article to upgrade Ezeelogin to the latest version.

Note:

1. If users from the OIDC provider need to be auto-created in the corresponding group from OIDC to the same group in Ezeelogin, the admin user must set the default user group to None. If the same group is not present in Ezeelogin, the user will not be auto-created.

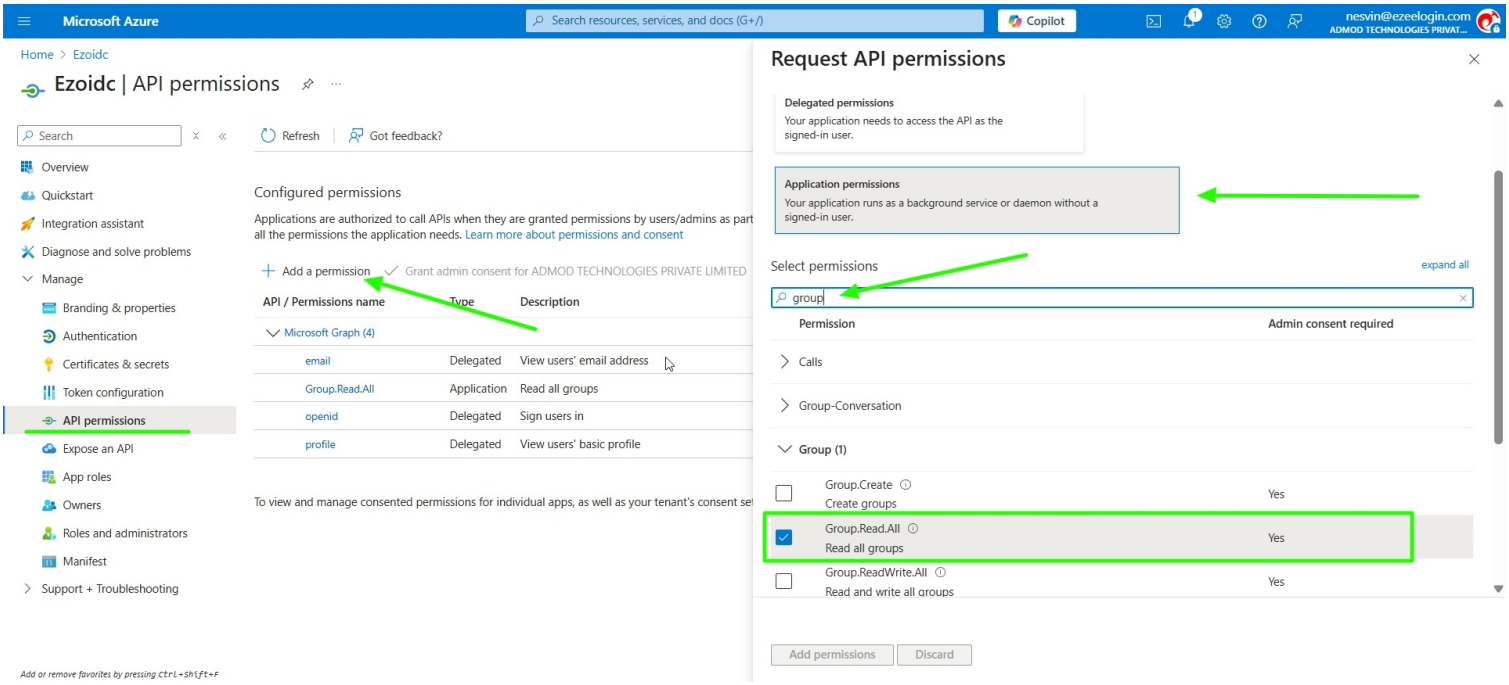


2. If the default user group is set to any group other than None, then all users from the OIDC provider will be auto-created in that same group.

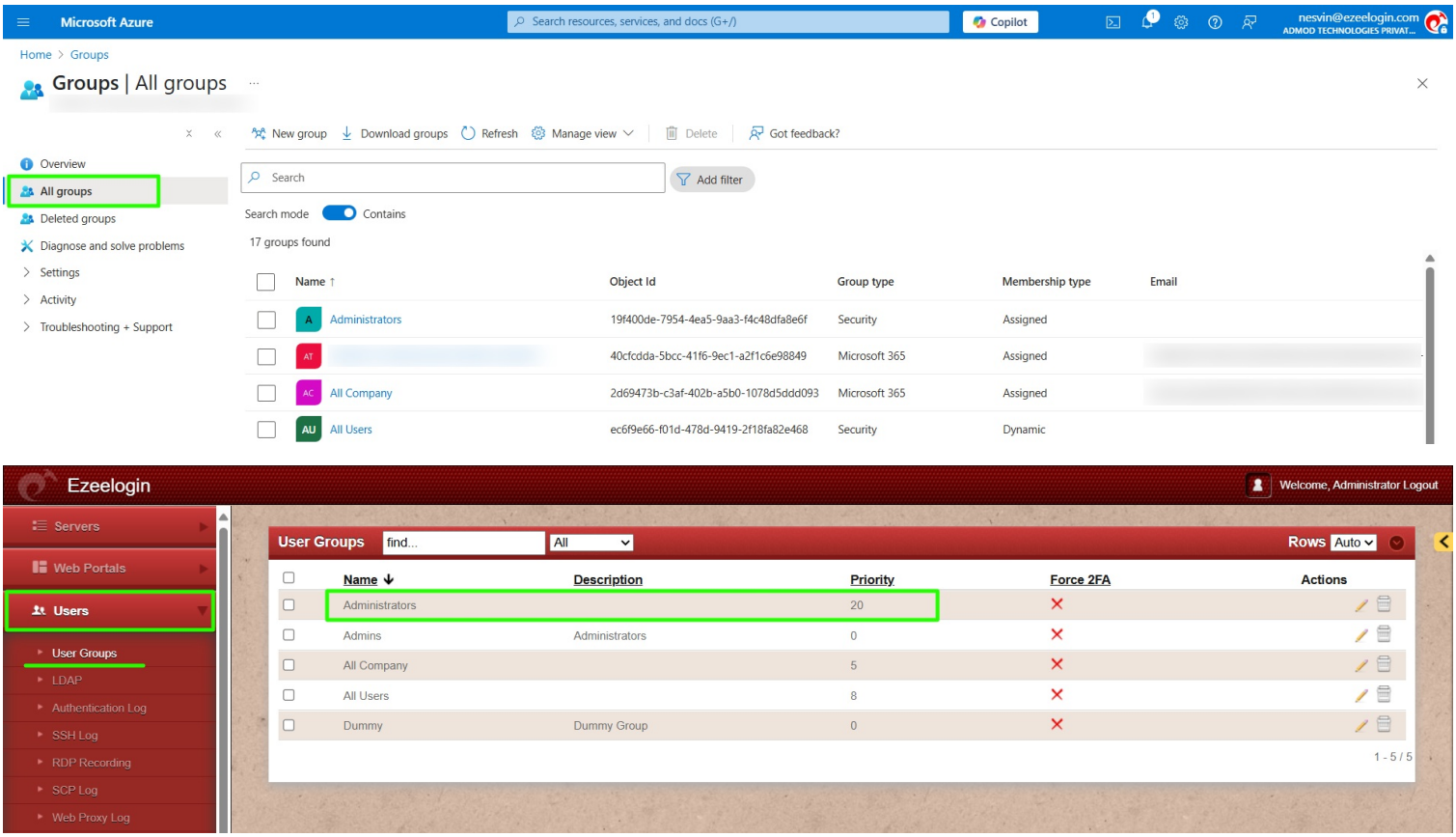


This feature is available from Ezeelogin version 7.46.0. Refer article to upgrade Ezeelogin to the latest version.

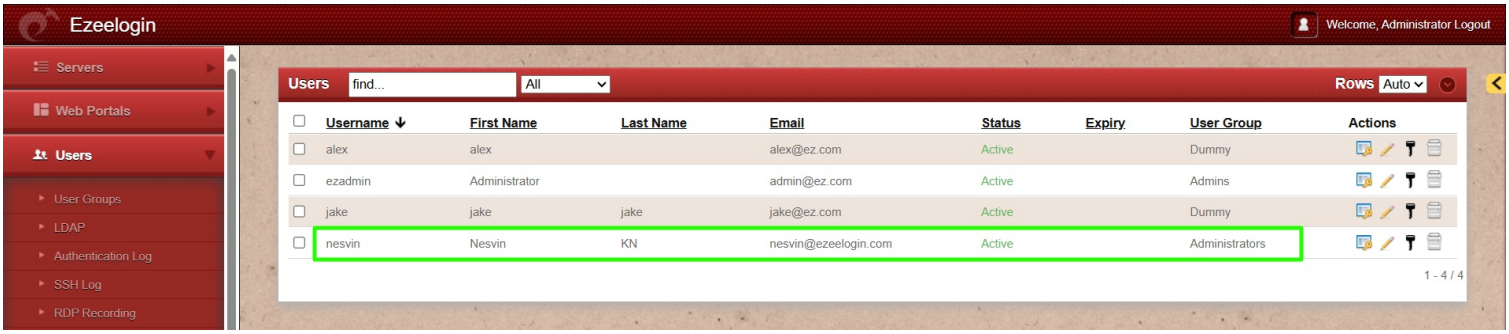
Step 1: Navigate to **API permissions** -> **Add a permission** -> **Microsoft Graph** -> **Application permissions** -> search for '**Group**' -> enable **Group.Read.All** to grant permission to read Azure user groups."



Step 2: Create the **same user group in Ezeelogin** as in **Azure** and **provide priority to auto assign to higher priority group**.



Step 3: Gateway user will be **auto created** to higher priority user group in Ezeelogin.



This feature is available from **Ezeelogin version 7.41.0**. Refer article to upgrade Ezeelogin to the latest version.

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Integrate Azure AD in Ezeelogin jump server