Settings of Teams API with MS365

Configuration of MS365

Prerequisites

- Administrative rights to
  - o Create inboxes
  - o Create enterprise applications in EntraID
  - o Create ClientSecrets in app registrations
  - o Access to ExchangeOnline (module: ExchangeOnlineManagement) via Powershell
- An inbox placed in the Cloud which can be called via API.
- A Teams license that enables the user also to configure Teams meetings.
- During the configuration the application right *Calendar.ReadWrite* is given and limited to the specific inbox.

1. Configuration of the APPs

a. Create a new enterprise application, but **not** from the catalog.
b. Set the visibility for users to "No" in the properties.
c. Give a new owner.
d. Make a note of the application ID and the object ID.
   Note that you need them both later in Powershell.
e. Switch to the *APP registrations*.
   You find a registration name which you have pre-given.
f. Make a note of the following values which you need for configuration in Avendoo®:
   - Client ID and
   - Application ID.
g. Switch to *Certificates and Secrets*.
h. Create a new ClientSecret.
   We recommend a validity of two years, but you can also choose a shorter validity.
i. Make a note of the "value" but the ID is not needed.
   Note that the value is **only NOW** readable. If you leave the page, you can't read it anymore.

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2. **Granting of rights**

   To grant the permissions, RBAC for applications is used. You find more information in this item: https://learn.microsoft.com/en-us/exchange/permissions-exo/application-rbac

   Note that we recommend - like written in the article above to grant the rights - and save them. We can**not** guarantee the current status of the Microsoft instruction. Please note that you as customer are responsible for the […] back-up.

   1. Connect with ExchangeOnline via Powershell
      Connect-ExchangeOnline
   2. Create a ServicePrincipal for the enterprise application
      New-ServicePrincipal -AppId <Application-ID (enterprise application)> -ObjectId <Object-ID (enterprise application)> -DisplayName <Enter a name>
   3. Create a ManagementScope which refers to an inbox user.
      New-ManagementScope -Name <Enter a name> -RecipientRestrictionFilter "PrimarySmtpAddress -eq <Primary SMTP address>"
   4. Grant the required right *Calendar.ReadWrite*.
      New-ManagementRoleAssignment -Role "Application Calendar.ReadWrite" -App <application ID (enterprise application)> -CustomResourceScope <given name from the ManagementScope>
   5. You can output the granted right and roles of the enterprise application as following:
      Test-ServicePrincipalAuthorization -Identity <given name from the ServicePrincipal> | format table
   6. The process of granting rights in Microsoft365 can take some time. Usually, they do work after one hour but the process can take more time.

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Configuration in Avendoo®

Prerequisites
Your author account got the right *View and edit the VC setting at the location*.

Configuration
1. Log into the author backend.
2. Choose **Resources → Locations → New virtual location** (type *Microsoft Teams*).
3. Switch to the tab *Parameters*.
4. Enter the following data for the following parameters:
   - tenantId = Client ID from the APP registration
   - clientId = Client ID from the APP registration
   - userId = UPN of the user in which the Teams rooms are created
   - clientSecret = the value of the Secret you have created before.
5. Click the button *Save*.
   Now this virtual location is available in event dates.

Warnings
o Make a note of the ClientSecrets' expiration date and exchange this before this expires. This is important because Avendoo® will be no more able to evoke and to send e-mails.
o When you name the ClientSecrets please make an appropriate naming. You should see where the Secret in Avendoo® should be exchanged.
   You can use a combination of the client and the title of the location for example.
o Always check a logical configuration of the values on the tab *Parameters*.
   This means the value of *Time of creating the room* should be 1440 (= a day) at minimum. Otherwise, the API is called very late, and this complicates the tests.