

Microsoft Graph API (Send mail)

Q: Why it was needed?

A: For Drupal web to send emails on cron, when user registers, newsletters, etc.

Using SDK <https://github.com/microsoftgraph/msgraph-sdk-php>

[Get access on behalf of a user - Microsoft Graph | Microsoft Docs](#)

[Get access without a user - Microsoft Graph | Microsoft Docs](#)

1. Get Token

1. Setup application at <https://go.microsoft.com/fwlink/?linkid=2083908> (Redirect is not important, because in this example, we are not forcing our user to log in via Microsoft AD login)
2. Add permissions for this application (Manage → API permissions) and add any required permissions (For web, **permissions have to be application** and not delegated), in our case, Mail.ReadWrite/Mail.Send/offline_access. (If you choose any special permissions, like read all users mail, you might need main admin approval). (Also, admin should grant permissions for domain).
3. Open created application overview page and you should see more information like tenant id etc. (later used in code example for \$tenantId and \$clientId)
4. Open Certificates and secrets tab and create new Client secret (later used in code example as \$clientSecret)
5. Authorize and you should get code (Authorization code is only needed when required permissions are not correctly set or other, **In our example, authorization code is not needed, but it is shown in case of other cases**)
 1. To authorize, fill in this request with your data:

[https://login.microsoftonline.com/{tenant}/oauth2/v2.0/authorize?client_id=11111111111111111111&response_type=code&response_mode=query&scope=offline_access%](https://login.microsoftonline.com/{tenant}/oauth2/v2.0/authorize?client_id=11111111111111111111&response_type=code&response_mode=query&scope=offline_access%00)

- 2.
3. Put this URL inside browser and if you need admin approval, wait for admins to approve and try again, if not, the app will redirect to your app (if set in step A) and in URL you should see the authorization code (long one).
6. You should now be able to call to /token endpoint with all data to get token (\$accessToken variable in code example). After calling this endpoint, print out the

access token and check at jwt.ms website, to see if the token contains "roles": ["Mail.ReadWrite", "Mail.ReadBasic.All", "Mail.Read", "Mail.Send", "Mail.ReadBasic"], (If something is wrong, permissions not granted etc, this role parameter will be missing and you will get all random errors).

2. Send mail

1. With all data from previous task, we can now call "<https://graph.microsoft.com/v1.0/users/{USERID}/sendmail>" endpoint.
2. To get user id, go to the accepted users in your app, go to their profile and in the url you should see their ID (Similar style as client-id).
3. If you want to test with postman, you can make a POST and provide token as bearer token in authorization tab, body JSON and example:

```
{
  "message": {
    "subject": "Meet for lunch?",
    "body": {
      "contentType": "Text",
      "content": "The new cafeteria is open."
    },
    "toRecipients": [
      {
        "emailAddress": {
          "address": "reciever@test.com"
        }
      }
    ],
    "ccRecipients": [
      {
        "emailAddress": {
          "address": "recieverCC@test.com "
        }
      }
    ]
  },
  "saveToSentItems": "true"
}
```

4. See code example 1 for calling graph api

P.S. Almost everywhere, the provided API endpoints for sending mails and etc. are /me or /me/sendmail, BUT these are used only when user is logging in by himself and needs less permissions and setting up.

Code example:

Code example 1

```
use Microsoft\Graph\Exception\GraphException;
use Microsoft\Graph\Graph;
use Microsoft\Graph\Model;

$tenantId = '11111111-1111-1111-1111-111111111111';
$clientId = '11111111-1111-1111-1111-111111111111';
$userId = '11111111-1111-1111-1111-111111111111';
$clientSecret = 'password'; // NOTE: Only required for web apps

// Get Access token.
$guzzle = new \GuzzleHttp\Client();
$url = 'https://login.microsoftonline.com/' . $tenantId .
'/oauth2/v2.0/token';
$token = json_decode($guzzle->post($url, [
    'form_params' => [
        'client_id' => $clientId,
        'client_secret' => $clientSecret,
        'scope' => 'https://graph.microsoft.com/.default',
        'grant_type' => 'client_credentials',
    ],
])->getBody()->getContents());
$accessToken = $token->access_token;

$graph = new Graph();

if ($version) {
    $graph->setApiVersion($version);
}

$graph->setAccessToken($accessToken);

// Mail body.
$mailBody = [
    "Message" => [
        "subject" => "Test Email",
        "body" => [
            "contentType" => "html",
            "content" => '<p>TEST</p>'
        ],
        "from" => [
            "emailAddress" => [
                "address" => 'sender@test.com'
            ]
        ],
        "toRecipients" => [
            [
                "emailAddress" => [
                    "address" => 'reciever@test.com'
                ]
            ]
        ]
    ]
];
```

```

// Attachments.
$files = [FILES_IN_ARRAY];
foreach ($files as $file) {
    $file_data = file_get_contents($file->url);

    $mail_body['message']['attachments'][] = [
        '@odata.type' => '#microsoft.graph.fileAttachment',
        'name' => $file->filename,
        'contentBytes' => base64_encode($file_data)
    ];
}

// Execute mail sending.
/** @var \Microsoft\Graph\Http\GraphResponse $request */
$request = $graph->createRequest('POST', '/users/' . $userId . '/sendmail')
->attachBody($mailBody)
->execute();

```

Additional read that might be useful in this or other cases:

[Build PHP apps with Microsoft Graph - Microsoft Graph | Microsoft Docs](#)

[Accessing Microsoft Graph API without using login page - Stack Overflow](#)

[azure active directory - Get Access Token from Microsoft Graph API using PHP - Stack Overflow](#)

[Send Outlook messages from another user - Microsoft Graph | Microsoft Docs](#)

[Microsoft identity platform and OAuth 2.0 authorization code flow - Microsoft identity platform | Microsoft Docs](#)

[c# - Connect to Microsoft Graph from MVC on behalf of logged in user - Stack Overflow](#)

[jwt.ms: Welcome!](#)

["Insufficient privileges to complete the operation" while using Graph API - Microsoft Q&A](#)

[Send mail - Microsoft Graph v1.0 | Microsoft Docs](#)