

# Read SharePoint file information via Graph API


Requirements: Graph Explorer knowledge needed.

## Create App Registration

An App Registration will be used to authenticate against Microsoft Graph API. For creating an App Registration there is an other detailed guide.

## Permissions



With API Permission "Sites.Selected" you can specify on which SharePoint-Sites the App Registration will have permissions to read/write files and properties.

 The "Admin consent required" column shows the default value for an organization. However, user consent can be customized per permission, user, or app. This column may not reflect the value in your organization, or in organizations where this app will be used. [Learn more](#)

### Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

[+](#) Add a permission [✓](#) Grant admin consent for BKW

API / Permissions name	Type	Description	Admin consent requ...	Status	
▼ Microsoft Graph (2)					
<a href="#">Sites.Selected</a>	Application	Access selected site collections	Yes	 Granted for BKW	***
<a href="#">User.Read</a>	Delegated	Sign in and read user profile	No	 Granted for BKW	***

To view and manage permissions and user consent, try [Enterprise applications](#).

## Get Site ID

To get the site id of your sharepoint sites to to the following link in a Webbrowser:

GET `https://<tenantname>.sharepoint.com/sites/<sitename>/_api/site/id`

Example: [https://lucanoahcaprez.sharepoint.com/sites/SPS-LNC-WebFiles-PROD/\\_api/site/id](https://lucanoahcaprez.sharepoint.com/sites/SPS-LNC-WebFiles-PROD/_api/site/id)

Example XML Response in Browser:

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<d:Id xmlns:d="http://schemas.microsoft.com/ado/2007/08/dataservices" xmlns:m="http://schemas.microsoft.com/ado/2007/08/dataservices/metadata" xmlns:geoms="http://www.geoms.org/geoms" xmlns:gml="http://www.opengis.net/gml" m:type="Edm.Guid" ebf3bd4-4694-48dc-8d10-cb0d727a7e73/d:Id>
```

# Get Folder ID

Folder IDs can be found using the graph explorer and the Site ID:

GET <https://graph.microsoft.com/v1.0/sites/<SiteID>/drives>

Example: <https://graph.microsoft.com/v1.0/sites/22c1c748-f7e0-4f10-97f4-64b51694a0ca/drives>

## Example JSON Response from Graph API

```
{
  "@odata.context": "https://graph.microsoft.com/v1.0/$metadata#drives",
  "value": [
    {
      "createdDateTime": "2021-04-03T23:11:15Z",
      "description": "",
      "id": "b!SMfBluD3EE-X9GS1FpSgypE4hAdzBPVAhzjowjy6CTAFMPryY5yGSRYXW7Jhy97f",
      "lastModifiedDateTime": "2022-05-06T07:25:15Z",
      "name": "Dokumente",
      "webUrl":
        "https://<tenantname>.sharepoint.com/sites/<sitename>/Freigegebene%20Dokumente",
      "driveType": "documentLibrary",
      "createdBy": {
        "user": {
          "displayName": "Systemkonto"
        }
      },
      "lastModifiedBy": {
        "user": {
          "displayName": "Systemkonto"
        }
      },
      "owner": {
        "group": {
          "email": "<sitename>@<tenantname>.onmicrosoft.com",
          "id": "bab76dba-25aa-4804-8cad-4fde62da958b",
          "displayName": "Besitzer von <sitename>"
        }
      },
      "quota": {
        "deleted": 0,
        "remaining": 27487376431088,
        "state": "normal",
        "total": 27487790694400,
        "used": 414263312
      }
    }
  ]
}
```

```

    }
  },
  {
    "createdDateTime": "2021-04-06T13:42:16Z",
    "description": "",
    "id": "b!SMfBluD3EE-X9GS1FpSgypE4hAdzBPVAhzjowjy6CTA3sb9Pi_NxRJ3IfYXRyKTz",
    "lastModifiedDateTime": "2021-10-02T21:16:08Z",
    "name": "Vertragsablage",
    "webUrl": "https://<tenantname>.sharepoint.com/sites/<sitename>/<foldername>",
    "driveType": "documentLibrary",
    "createdBy": {
      "user": {
        "displayName": "Systemkonto"
      }
    },
    "lastModifiedBy": {
      "user": {
        "displayName": "Systemkonto"
      }
    },
    "owner": {
      "group": {
        "email": "<sitename>@<tenantname>.onmicrosoft.com",
        "id": "bab76dba-25aa-4804-8cad-4fde62da958b",
        "displayName": "Besitzer von <sitename>"
      }
    },
    "quota": {
      "deleted": 0,
      "remaining": 27487376431088,
      "state": "normal",
      "total": 27487790694400,
      "used": 414263312
    }
  },
  {
    "createdDateTime": "2022-09-15T09:41:10Z",
    "description": "sharepoint list",
    "id": "b!SMfBluD3EE-
X9GS1FpSgypE4hAdzBPVAhzjowjy6CTC6kAXUUK7qSLG7oSTLYNsQ",
    "lastModifiedDateTime": "2022-09-15T09:41:10Z",
    "name": "Teams Wiki Data",
    "webUrl":
"https://<tenantname>.sharepoint.com/sites/<sitename>/Teams%20Wiki%20Data",
    "driveType": "documentLibrary",

```

```

    "createdBy": {
      "user": {
        "email": "<creatorupn>",
        "id": "9e5da9b4-7023-4d36-86f5-33768907270f",
        "displayName": "<creatordisplayname>"
      }
    },
    "lastModifiedBy": {
      "user": {
        "email": "<creatorupn>",
        "id": "9e5da9b4-7023-4d36-86f5-33768907270f",
        "displayName": "<creatordisplayname>"
      }
    },
    "owner": {
      "group": {
        "email": "<sitename>@<tenantname>.onmicrosoft.com",
        "id": "bab76dba-25aa-4804-8cad-4fde62da958b",
        "displayName": "Besitzer von <sitename>"
      }
    },
    "quota": {
      "deleted": 0,
      "remaining": 27487376431088,
      "state": "normal",
      "total": 27487790694400,
      "used": 414263312
    }
  }
}

```

## Get Folder Documents

Get folder documents and content with graph api:

GET <https://graph.microsoft.com/v1.0/sites/<SiteID>/drives/<FolderID>>

Example: <https://graph.microsoft.com/v1.0/sites/22c1c748-f7e0-4f10-97f4-64b51694a0ca/drives/b!SMfBluD3EE-X9GS1FpSgypE4hAdzBPVAhzjowjy6CTAFMPry5yGSRYXW7Jhy97f>

Example JSON Response in Graph Explorer:

## Example JSON Response from Graph API

```
{
  "@odata.context": "https://graph.microsoft.com/v1.0/$metadata#drives/$entity",
  "createdDateTime": "2021-04-03T23:11:15Z",
  "description": "",
  "id": "b!SMfBluD3EE-X9GS1FpSgypE4hAdzBPVAhzjowjy6CTAFMPry5yGSRYXW7Jhy97f",
  "lastModifiedDateTime": "2022-05-06T07:25:15Z",
  "name": "Dokumente",
  "webUrl":
"https://<tenantname>.sharepoint.com/sites/<sitename>/Freigegebene%20Dokumente",
  "driveType": "documentLibrary",
  "createdBy": {
    "user": {
      "displayName": "Systemkonto"
    }
  },
  "lastModifiedBy": {
    "user": {
      "displayName": "Systemkonto"
    }
  },
  "owner": {
    "group": {
      "email": "<sitename>@<tenantname>.onmicrosoft.com",
      "id": "bab76dba-25aa-4804-8cad-4fde62da958b",
      "displayName": "Besitzer von <sitename>"
    }
  },
  "quota": {
    "deleted": 0,
    "remaining": 27487376431088,
    "state": "normal",
    "total": 27487790694400,
    "used": 414263312
  }
}
```

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