

Code used to initialize appClient :

Case 1:

Original code present in azure-sdk-for-go:

```
func getApplicationsClient(clientID, clientSecret, tenantID string)
(graphrbac.ApplicationsClient, error) {
    appClient := graphrbac.NewApplicationsClient(tenantID)
    credConfig := auth.NewClientCredentialsConfig(clientID, clientSecret, tenantID)
    credConfig.Resource = azure.PublicCloud.ResourceIdentifiers.Graph
    authorizer, err := credConfig.Authorizer()
    if err != nil {
        return appClient, err
    }

    appClient.Authorizer = authorizer
    appClient.AddToUserAgent("cloudcasa-agent")
    return appClient, nil
}
```

Error i am getting in this case is :

```
2022-01-05T11:56:09.158Z ERROR backoff/backoff.go:96 Error Occurred: Retrying
in {"jobID": "61d5874c871150b072047fa5", "clusterID": "61d57c5abed6f3ba3ad5ca04",
"seconds": "11.536351037s", "attempt": 3, "error": "graphrbac.ApplicationsClient#Create: Failure
responding to request: StatusCode=403 -- Original Error: autorest/azure: Service returned an error.
Status=403 Code=\"Unknown\" Message=\"Unknown service error\" Details=[{\"odata.error\":
{\"code\":\"Authorization_RequestDenied\",\"date\":\"2022-01-05T11:56:09\",\"message\":
{\"lang\":\"en\",\"value\":\"Insufficient privileges to complete the
operation.\"}],\"requestId\":\"b2aface0-54da-41e0-81a9-8ca2c159bd38\"}]}"}
```

Case :2 :

changed endpoint to <https://graph.microsoft.com>

```
func getApplicationsClient(clientID, clientSecret, tenantID string)
(graphrbac.ApplicationsClient, error) {
    appClient := graphrbac.NewApplicationsClientWithBaseURI("https://graph.microsoft.com",
tenantID)
    credConfig := auth.NewClientCredentialsConfig(clientID, clientSecret, tenantID)
    credConfig.Resource = "https://graph.microsoft.com"
    authorizer, err := credConfig.Authorizer()
    if err != nil {
        return appClient, err
    }
}
```

```

appClient.Authorizer = authorizer
appClient.AddToUserAgent("cloudcasa-agent")
return appClient, nil
}

```

Error I am getting is :

```

2022-01-05T11:22:52.744Z ERROR backoff/backoff.go:96 Error Occurred: Retrying
in {"jobID": "61d57eff1f742c4e19ecc423", "clusterID": "61d57c5abed6f3ba3ad5ca04",
"seconds": "6.964792265s", "attempt": 2, "error": "graphrbac.ApplicationsClient#Create: Failure
responding to request: StatusCode=400 -- Original Error: autorest/azure: Service returned an error.
Status=400 Code=\"BadRequest\" Message=\"Invalid version.\" InnerError={\"client-request-
id\": \"f37e5ffb-b09b-45bb-942e-594579733a1d\", \"date\": \"2022-01-05T11:22:52\", \"request-
id\": \"f37e5ffb-b09b-45bb-942e-594579733a1d\"}}
catalogicsoftware.com/archimedes/amdslib/backoff.(*Backoff).RetryOnError

```

Case 3 :

Code used to initialize client is :

```

func getApplicationsClient(clientID, clientSecret, tenantID string)
(graphrbac.ApplicationsClient, error) {
appClient := graphrbac.NewApplicationsClientWithBaseURI("https://graph.microsoft.com",
tenantID)
credConfig := auth.NewClientCredentialsConfig(clientID, clientSecret, tenantID)
credConfig.Resource = "https://graph.microsoft.com"
oauthConfig, err := adal.NewOAuthConfig(
credConfig.Resource, tenantID)
if err != nil {
return appClient, err
}

token, err := adal.NewServicePrincipalToken(
*oauthConfig, clientID, clientSecret, credConfig.Resource)
if err != nil {
return appClient, err
}
authorizer := autorest.NewBearerAuthorizer(token)
appClient.Authorizer = authorizer
appClient.AddToUserAgent("cloudcasa-agent")
return appClient, nil
}

```

Error i am getting is :

```

2022-01-05T11:31:09.801Z ERROR backoff/backoff.go:96 Error Occurred: Retrying
in {"jobID": "61d5816e94b95f0114ac9b0e", "clusterID": "61d57c5abed6f3ba3ad5ca04",

```

"seconds": "15.980300997s", "attempt": 3, "error": "azure.BearerAuthorizer#WithAuthorization: Failed to refresh the Token for request to https://graph.microsoft.com/ea3d63e8-dd40-410b-9496-d2ee49ccddc3/applications?api-version=1.6: StatusCode=401 -- Original Error: adal: Refresh request failed. Status Code = '401'. Response body: {\"error\": {\"code\": \"InvalidAuthenticationToken\", \"message\": \"Access token is empty.\", \"innerError\": {\"date\": \"2022-01-05T11:31:09\", \"request-id\": \"2f77d587-547c-4110-9b59-ca5be7ee7242\", \"client-request-id\": \"2f77d587-547c-4110-9b59-ca5be7ee7242\"}}}} Endpoint https://graph.microsoft.com/ea3d63e8-dd40-410b-9496-d2ee49ccddc3/oauth2/token?api-version=1.0\"}