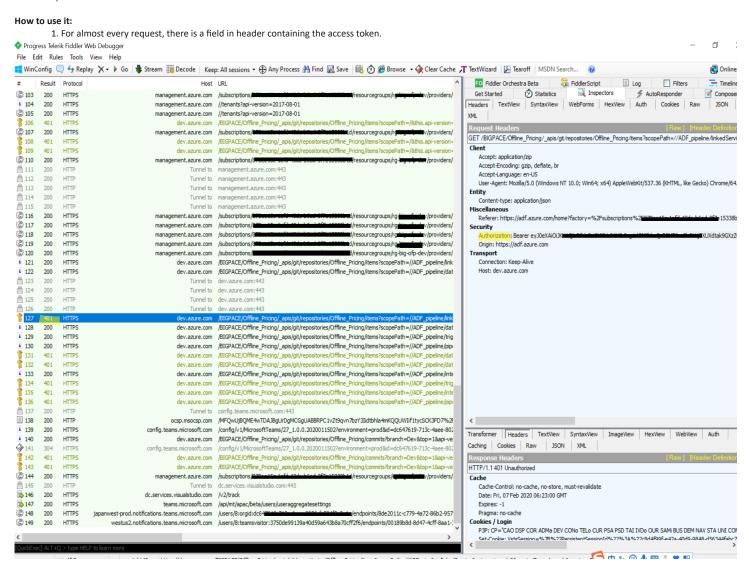
Connect to Git Repository failed due to different tenant

Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

Connect to Git Repository failed due to different tenant

Tuesday, February 25, 2020 10:33 AM

Background: Sometimes we encounter Authentication issues like HTTP status 401. Especially when customer have multiple tenants with guest account, this could make things more complicated.



2. Then just paste the token into https://jwt.io/ and the token will be decoded.



Encoded PASTE A TOKEN HERE

TIJIVITWIAMI OTJONNIGAMOOOMIOHEGOUTIIIITOJE 10DEwNTQxNzgsImV4cCI6MTU4MTA10DA30CwiYWN yIjoiMSIsImFpbyI6IjQyTmdZT0JydVhCTm9qLyt 3cTVtVDcrN0RWeHp2cWt6NmhtMWVrZks3djc0TmI 5WjZCRUEiLCJhbXIiOlsicHdkIiwicnNhIl0sImF wcGlkIjoiMTZmOWI4ZTktZDIwYi00NWExLWFi0WU tZGIyZTgyNTQ1MDhiIiwiYXBwaWRhY3Ii0iIwIiw iZGV2aWNlaWQi0iJmZWJkN2YzMi01YmFjLTQ2MjY tYWJ1Ni05YzJ1NzY2YjI1ZTYiLCJmYW1pbHlfbmF tZSI6IkRoYW5hbGFrc2htaSIsImdpdmVuX25hbWU iOiJFY2hpcHV0dHVyIiwiaXBhZGRyIjoiMTI1LjI yLjE5My4xNDgiLCJuYW11IjoiRWNoaXB1dHR1ciB EaGFuYWxha3NobWkiLCJvaWQi0iJkYzY0NzYx0S0 3MTNjLTRhZWUtODAyNi1mYzUwNGY4YzJ1MWEiLCJ vbnByZW1fc2lkIjoiUy0xLTUtMjEtMjY2NzQ50TQ wLTE2Mzc5NjQ0NDQt0TI5NzAxMDAwLTM5MzE0MjU iLCJwdWlkIjoiMTAwMzIwMDA2RTA0NzEzQSIsInN jcCI6InVzZXJfaW1wZXJzb25hdGlvbiIsInN1YiI 6InhQcy1qR0F1Q1UyMnpLdFY4bktNR0RpaDFySmx QbVNrTEFMNGdRdXdyRjgiLCJ0aWQi0iI2M2N1N2Q 10S0yZjN1LTQyY2QtYThjYy1iZTc2NGNmZjV1YjY iLCJ1bmlxdWVfbmFtZSI6ImVjaGlwdXR0dXIuZEB

Decoded EDIT THE PAYLOAD AND SECRET

```
HEADER: ALGORITHM & TOKEN TYPE
       {}
PAYLOAD: DATA
                "aud": "499b84ac-1321-427f-aa17-267ca6975798",
                "iss": "https://sts.windows.net/63ce7d59-2f3e-42cd-a8cc-
      be764cff5eb6/"
                "iat": 1581054178,
                "nbf": 1581054178,
                "exp": 1581058078,
                "acr": "1",
                "aio":
          "42NgYOBruXBNoj/+wq5mT7+7DVxzvqkz6hm1ekfK7v74Nb9Z6BEA",
                 "amr": [
                         "pwd",
                         "rsa'
                 "appid": "16f9b8e9-d20b-45a1-ab9e-db2e8254508b",
                 "appidacr": "0",
                "deviceid": "febd7f32-5bac-4626-abe6-9c2e766b25e6",
                "family_name": "Discounting of the last of
                  "given_name": "🖿
                 "ipaddr": "125.22.193.148"
                 "oid": "dc647619-713c-4aee-8026-fc504f8c2e1a",
                "onprem_sid": "S-1-5-21-266749940-1637964444-929701000-
       3931425",
                "puid": "100320006F04713A"
```

Real case reference:

In this case customer needs to access their DevOps using ADF portal as client. This user has her original tenant while she is also a guest user in another guest tenant. The DevOps she want to visit is in guest tenant. We see requests to DevOps failed with 401 but all user permission has been checked without any issue.

For this customer's account, it has been invited to tenant (83beff02-9d00-472b-94ef-6ca23e448cfb) as a guest.

1	63ce7d59-2f3e-42cd- a8cc-be764cff5eb6	Guest Tenant	83beff02-9d00-472b-94ef-6ca23e448cfb	
User Principal Name (UPN)	xxxxxxxx.d_ixxxxxxs.com	User Principal Name (UPN)	xxxxxxxx.d_ixxxxxxs.com#EXT#@bigcorporate.onmicrosoft.com	
	dc647619-713c-4aee- 8026-fc504f8c2e1a	Object ID	f43dfaf6-3c5b-40cb-9c59-3a8aa1502fe6	

Both the target ADF and DevOps are in guest tenant.

I setup similar environment, where ADF & DevOps also in guest tenant.

Then we compared the two access tokens in collected Fiddler traces when trying to access Azure DevOps Service.

```
Working scenario in my lab test
                                                                 Failed scenario, in customer's environment
                                                                    "aud": "499b84ac-1321-427f-aa17-267ca6975798"
   "aud": "499b84ac-1321-427f-aa17-267ca6975798"
                                                                    "iss": "https://sts.windows.net/63ce7d59-2f3e-42cd-a8cc
   "iss": "https://sts.windows.net/6d5653e0-
                                                                 be764cff5eb6/",
 3389e0f18cee/",
                                                                    "iat": 1581054178,
   "iat": 1582101730,
   "nbf": 1582101730,
                                                                   "nbf": 1581054178,
                                 guest tenant
                                                                   "exp": 1581058078,
   "exp": 1582105630,
   "acr": "1",
                                                                   "acr": "1",
                                                                   "aio":
   "aio":
                                                                  "42NgYOBruXBNoj/+wg5mT7+7DVxzvgkz6hm1ekfK7v74Nb9Z6BEA",
 "AXQAi/80AAAAYNHtveswuhklYOSEUnsgAb/UEIMaEJFvEiudUgZNuRxQk
                                                                   "amr": [
 WN2PVQCcx4ajCD4Y4
 hJLuRDWPXMejcBjpSM/16PF0vbphmD7M1MqPz4Q0f4Qm03w==",
                                                                      "pwd"
                                                                      "rsa"
   "altsecid": "5::1003BFFD953F54BD",
   "amr": [
                                                                    "appid": "16f9b8e9-d20b-45a1-ab9e-db2e8254508b",
     "pwd",
                                                                    "appidacr": "0",
     "rsa"
                                                                    "deviceid": "febd7f32-5bac-4626-abe6-9c2e766b25e6",
   "appid": "16f9b8e9-d20b-45a1-ab9e-db2e8254508b",
                                                                   "family_name": "Dhanalakahmi",
                                      original tenant
                                                                   "given_name": "E<del>shiputtu.</del>",
   "appidacr": "0",
                                                                   "ipaddr": "125.22.193.148",
   "email": "ruoyu.li@microsoft.com",
   "idp": "https://sts.windows.net/72f988bf-
                                                                    "name": "February
                                                                    "oid": "dc647619-713c-4aee-8026-fc504f8c2e1a",
 d7cd011db47/".
                                                                    "onprem_sid": "S-1-5-21-266749940-1637964444-929701000-
   "ipaddr": "121.235.137.170",
                                                                 3931425".
   "name": "Ruoyu Li",
   "oid": "0ef7855c-7b0b-465f-be3c-ef7927fb9497",
                                                                    "puid": "100320006E04713A",
   "puid": "100320009BFD1FB1",
                                                                    "scp": "user_impersonation",
                                                                    "sub": "xPs-jGAuBU22zKtV8nKMGDih1rJ1PmSkLAL4gQuwrF8",
   "scp": "user_impersonation",
                                                                    "tid": "63ce7d59-2f3e-42cd-a8cc-be764cff5eb6"
   "sub": "ER0Dx12z83sdb1SSm1HQd2hgkYBu1q7Ce5o_azPh2AE",
                                                                    "unique_name": "emblemation.d@ad.imfeers.com"
   "tid": "6d5653e0-793a-4906-b10d-3389e0f18cee",
   "unique_name": "ruoyu.li@microsoft.com"
                                                                    "upn": "eminimum.d@ad.infocus.com",
                                                                    "uti": "o5N8nr3HsUmGpvTl1HRHAA",
   "uti": "K2-kYATKG0anrVQlcfxZAQ".
                                                                    "ver": "1.0"
   "ver": "1.0"
```

In my scenario, even it successfully recognized my original tenant, but correctly requested token from the guest tenant, and then use the token to visit DevOps in guest tenant. This is normal behavior and expected result.

In customer's scenario, the **token** was obtained from the **original** tenant, but ADF is in **guest** tenant and trying to use this token to visit **DevOps** in **guest** tenant. This is not the expected behavior. Customer should use the token issued from guest tenant instead.

Finally, we figured out that we need to explicitly specify the Azure Active Directory to be customer's **guest tenant**, **the one same as their DevOps**, so it can correct the token obtain behavior and use the correct tenant

Repository settings

Enter Git repository information to be associated with your Data Fact testADFruoli



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