Nutanix Collector with Azure

Stanislas Quastana

Steps

Download and install Collector on a Windows system

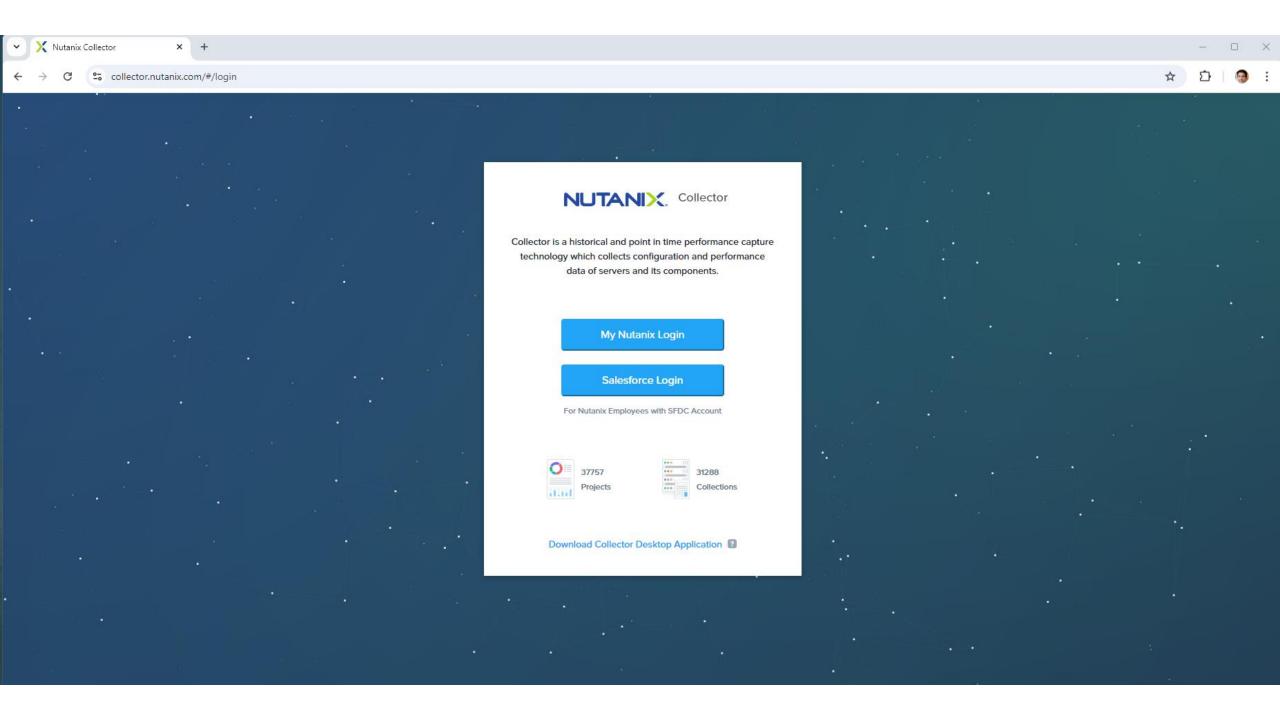
Create a programmatic identity in Entra ID (aka Azure AD)

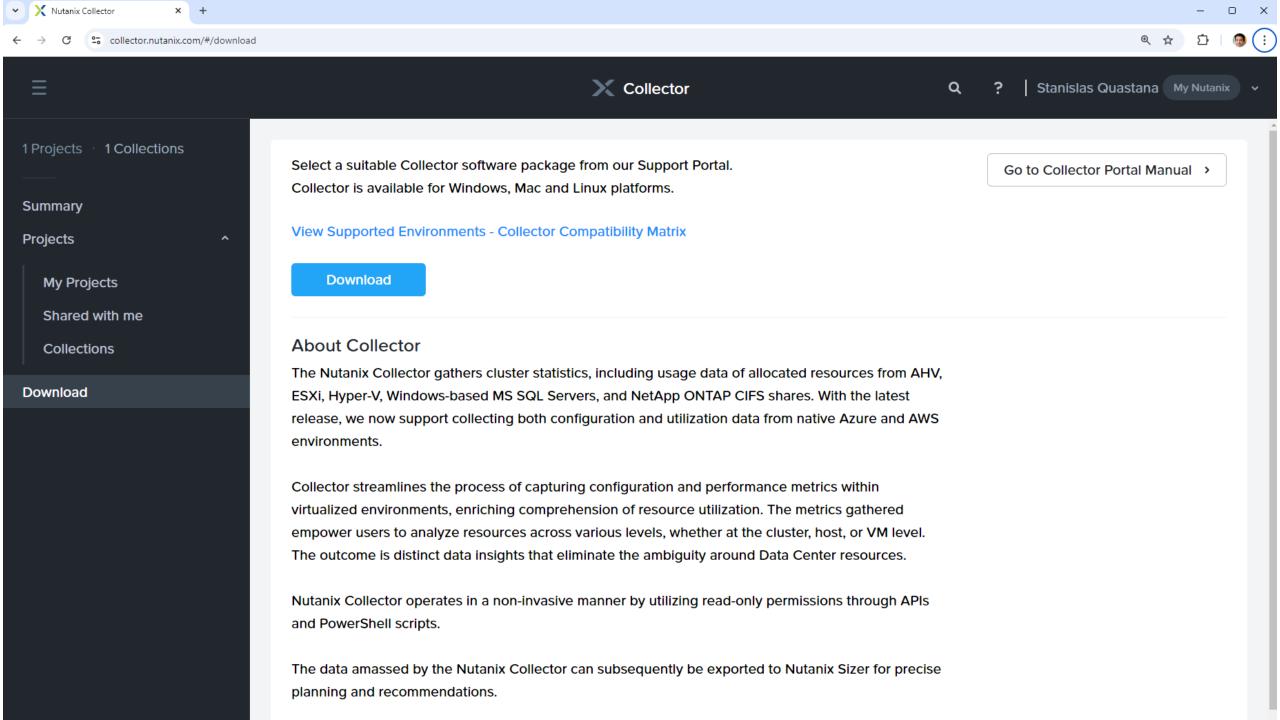
Create an Azure Custom Role

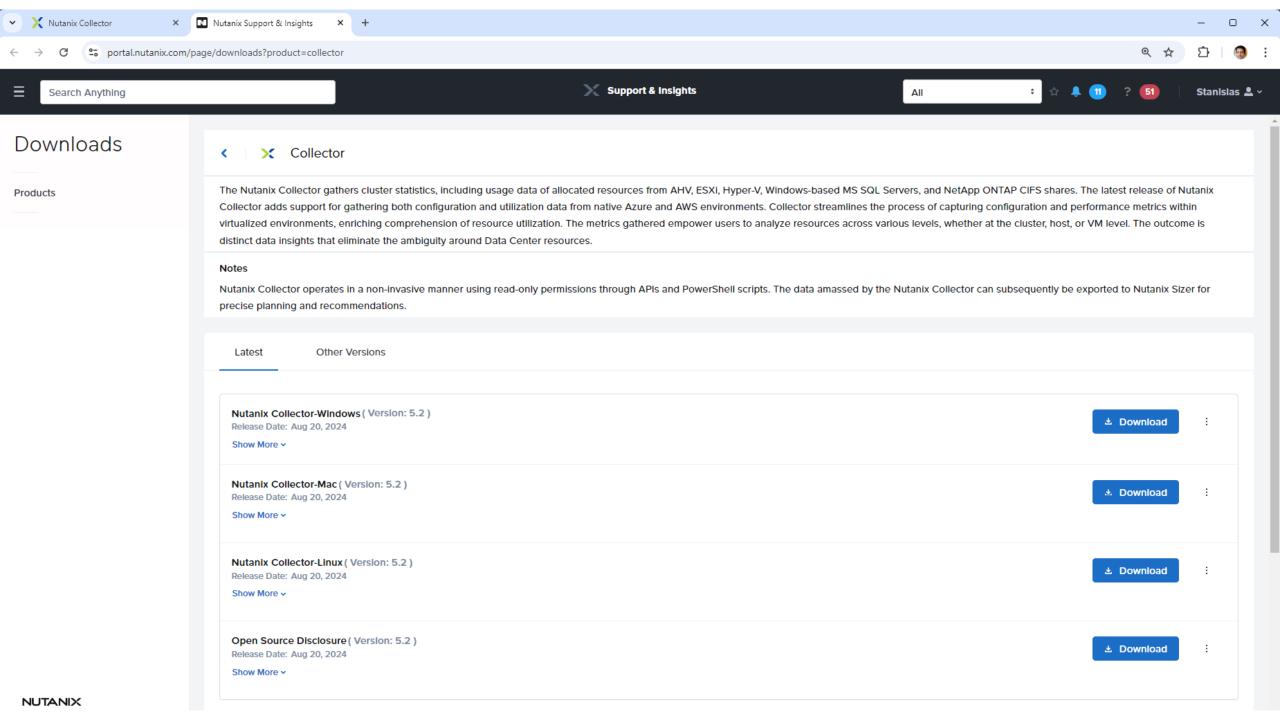
Assign Custom Role to the programmatic identity

Run Collector in command line

Download and install collector on a Windows machine







∨ Today

Nutanix-Collector-5.2-win.zip	9/25/2024 8:47 AM	Compressed (zipp	265,566 KB
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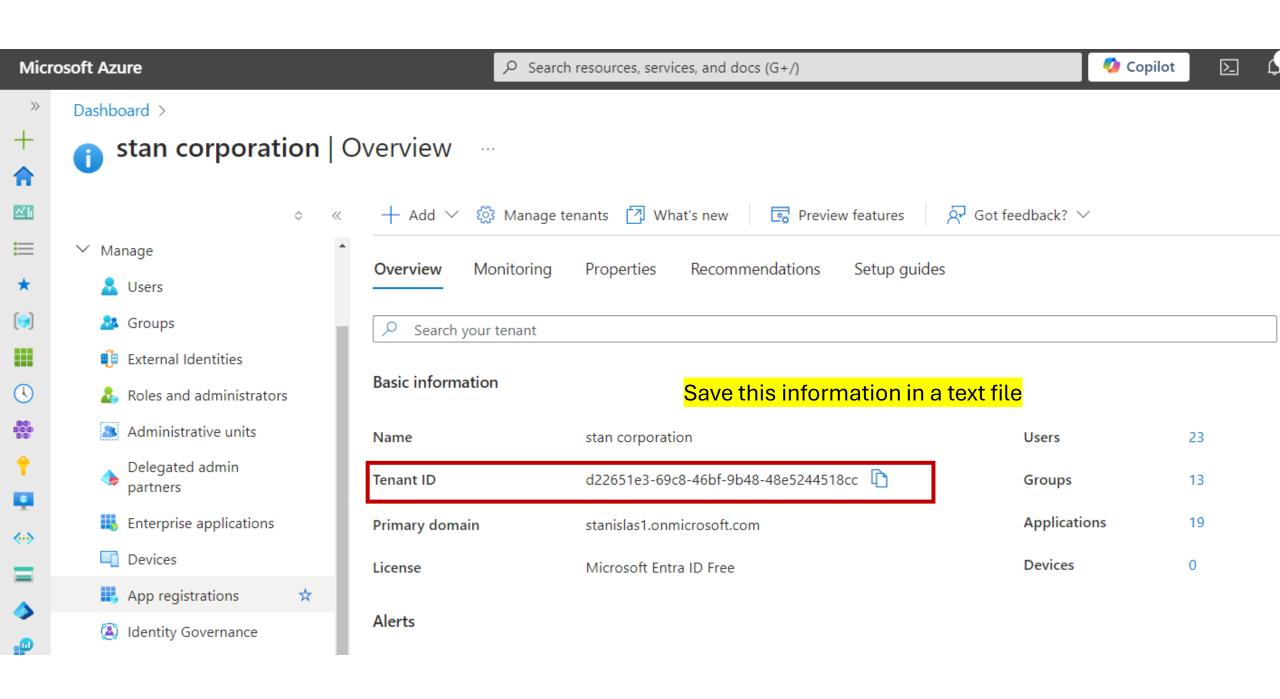
Name	Date modified	Туре	Size
collector-cli	9/25/2024 8:49 AM	File folder	
adist	9/25/2024 8:49 AM	File folder	
locales	9/25/2024 8:49 AM	File folder	
precheck	9/25/2024 8:49 AM	File folder	
resources	9/25/2024 8:49 AM	File folder	
Security-Guide	9/25/2024 8:49 AM	File folder	
swiftshader	9/25/2024 8:49 AM	File folder	
== templates	9/25/2024 8:49 AM	File folder	
chrome_100_percent.pak	9/25/2024 8:49 AM	PAK File	139 KB
chrome_200_percent.pak	9/25/2024 8:49 AM	PAK File	203 KB
d3dcompiler_47.dll	9/25/2024 8:49 AM	Application exten	3,628 KB
ffmpeg.dll	9/25/2024 8:49 AM	Application exten	2,551 KB
icudtl.dat	9/25/2024 8:49 AM	DAT File	10,029 KB
libEGL.dll	9/25/2024 8:49 AM	Application exten	364 KB
libGLESv2.dll	9/25/2024 8:49 AM	Application exten	6,078 KB
LICENSE	9/25/2024 8:49 AM	File	2 KB
ULICENSES.chromium.html	9/25/2024 8:49 AM	Microsoft Edge H	5,363 KB
ntnx_config.json	9/25/2024 8:49 AM	JSON Source File	1 KB
X Nutanix-Collector.exe	9/25/2024 8:49 AM	Application	125,130 KB
resources.pak	9/25/2024 8:49 AM	PAK File	4,948 KB
snapshot_blob.bin	9/25/2024 8:49 AM	BIN File	279 KB
v8_context_snapshot.bin	9/25/2024 8:49 AM	BIN File	592 KB
version version	9/25/2024 8:49 AM	File	1 KB
vk_swiftshader.dll	9/25/2024 8:49 AM	Application exten	3,953 KB
vk_swiftshader_icd.json	9/25/2024 8:49 AM	JSON Source File	1 KB
🕏 vulkan-1.dll	9/25/2024 8:49 AM	Application exten	730 KB

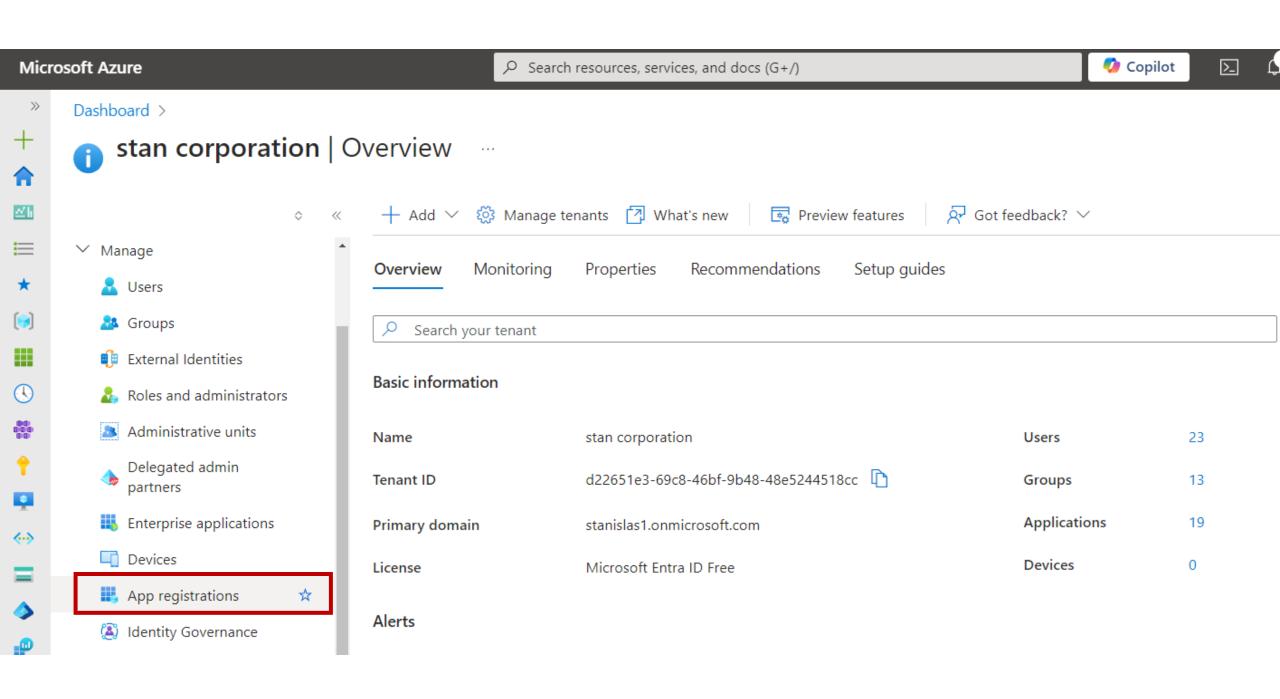
```
Command Prompt
C:\Nutanix\Nutanix-Collector-5.2-win\collector-cli>dir
 Volume in drive C is NCaseStan
 Volume Serial Number is FE69-09F2
 Directory of C:\Nutanix\Nutanix-Collector-5.2-win\collector-cli
09/25/2024 08:49 AM
                       <DIR>
09/25/2024 08:49 AM
                       <DIR>
09/25/2024 08:49 AM
                           57,910,344 ntnxcollector_cli.exe
09/25/2024 08:49 AM
                                   67 ntnx_config.json
09/25/2024 08:49 AM
                               16,212 README.pdf
09/25/2024 08:49 AM
                       <DIR>
                                      templates
              3 File(s)
                            57,926,623 bytes
               3 Dir(s) 863,630,249,984 bytes free
C:\Nutanix\Nutanix-Collector-5.2-win\collector-cli>
```

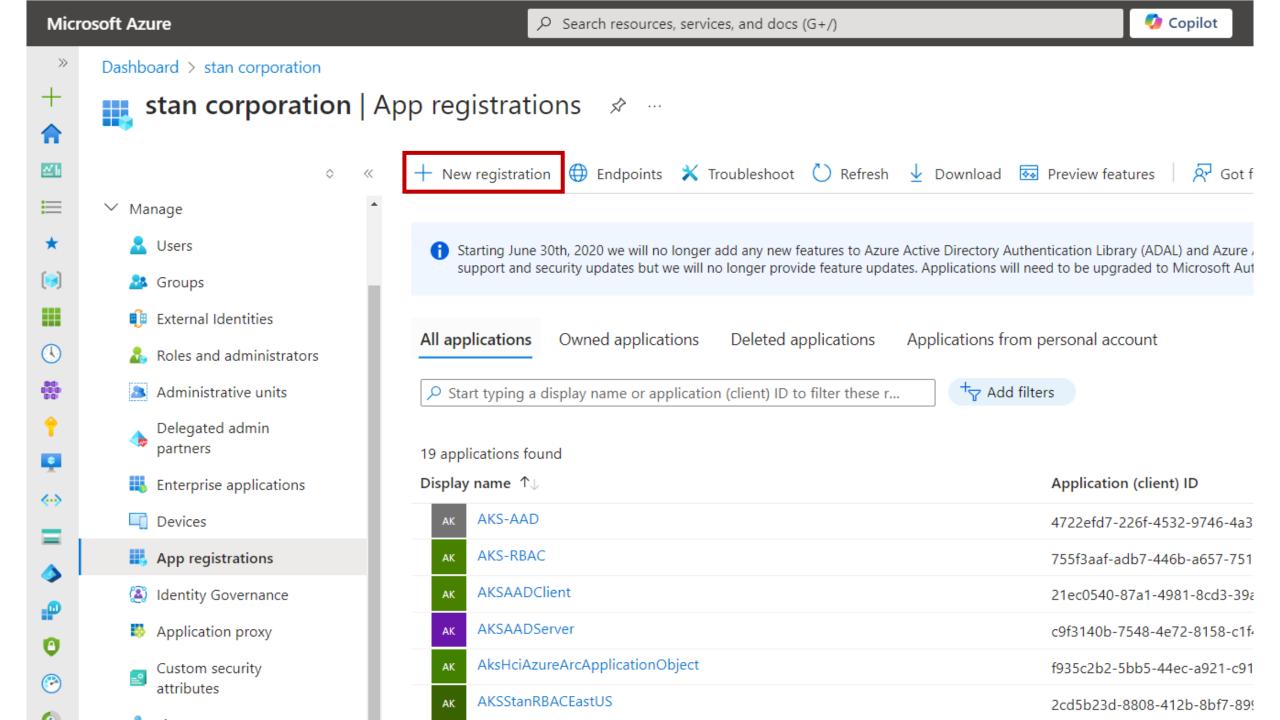
```
C:\Nutanix\Nutanix-Collector-5.2-win\collector-cli>ntnxcollector_cli.exe azure --help
usage: Collector azure [-h] --client_id CLIENT_ID [--client_secret CLIENT_SECRET] --tenant_id TENANT_ID
                       [--duration DURATION] [--transform TRANSFORM]
options:
                       show this help message and exit
  -h, --help
  --client_id CLIENT_ID, -id CLIENT_ID
                        Client ID of the Application registered on the Microsoft Identity Platform
  --client_secret CLIENT_SECRET, -secret CLIENT_SECRET
                        Client Secret of the Application registered on the Microsoft Identity Platform
  --tenant_id TENANT_ID, -tenantId TENANT_ID
                        Tenant ID of the Application registered on the Microsoft Identity Platform
  --duration DURATION, -d DURATION
                        Amount of historical performance data you wish to gather. Supported durations are 7, 15, 30,
                        60, and 90 days. The data collection is instantaneous irrespective of the duration requested.
  --transform TRANSFORM, -t TRANSFORM
                        Transform sensitive information gathered by the Collector to avoid sharing Azure subscription
                        details such as names and IDs. Possible values are true or false.
```

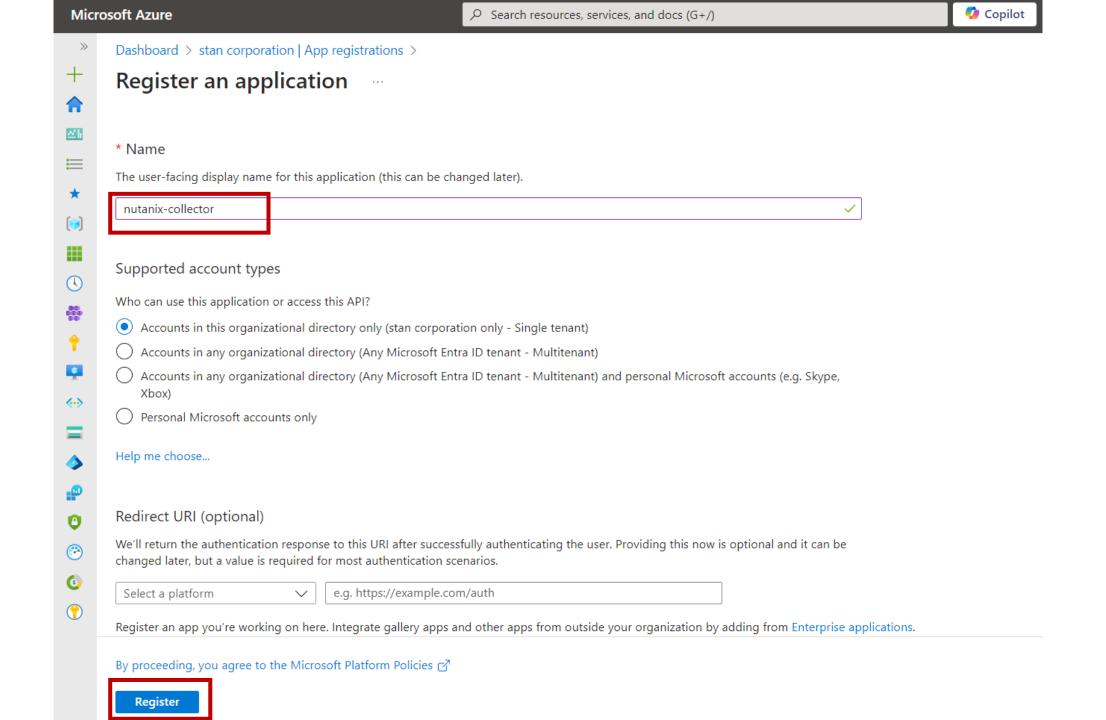
Entra ID operations

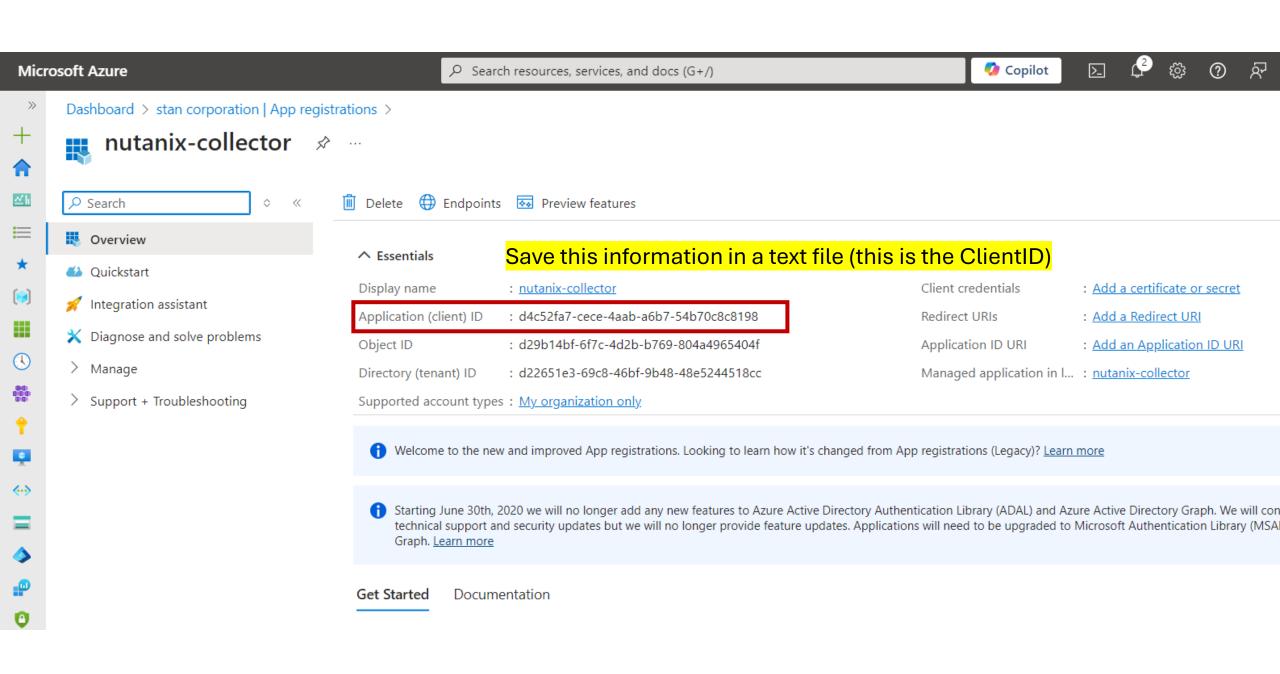
Create a programmatic identity

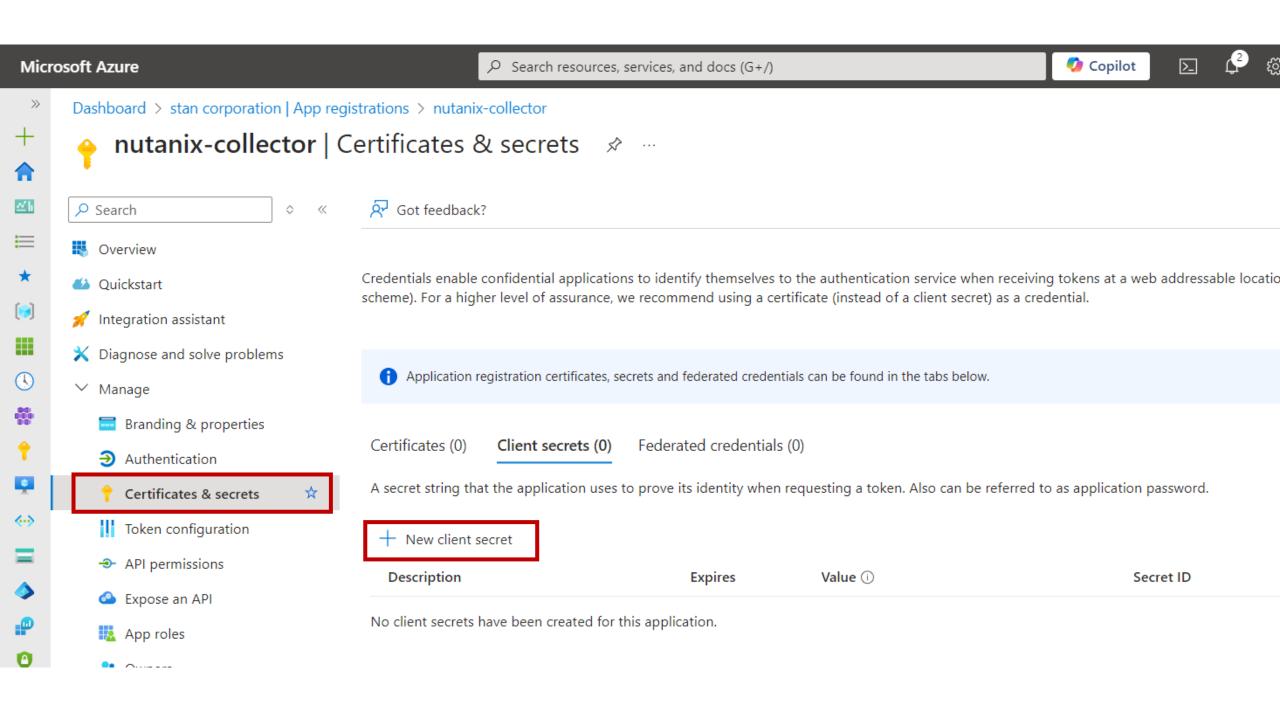


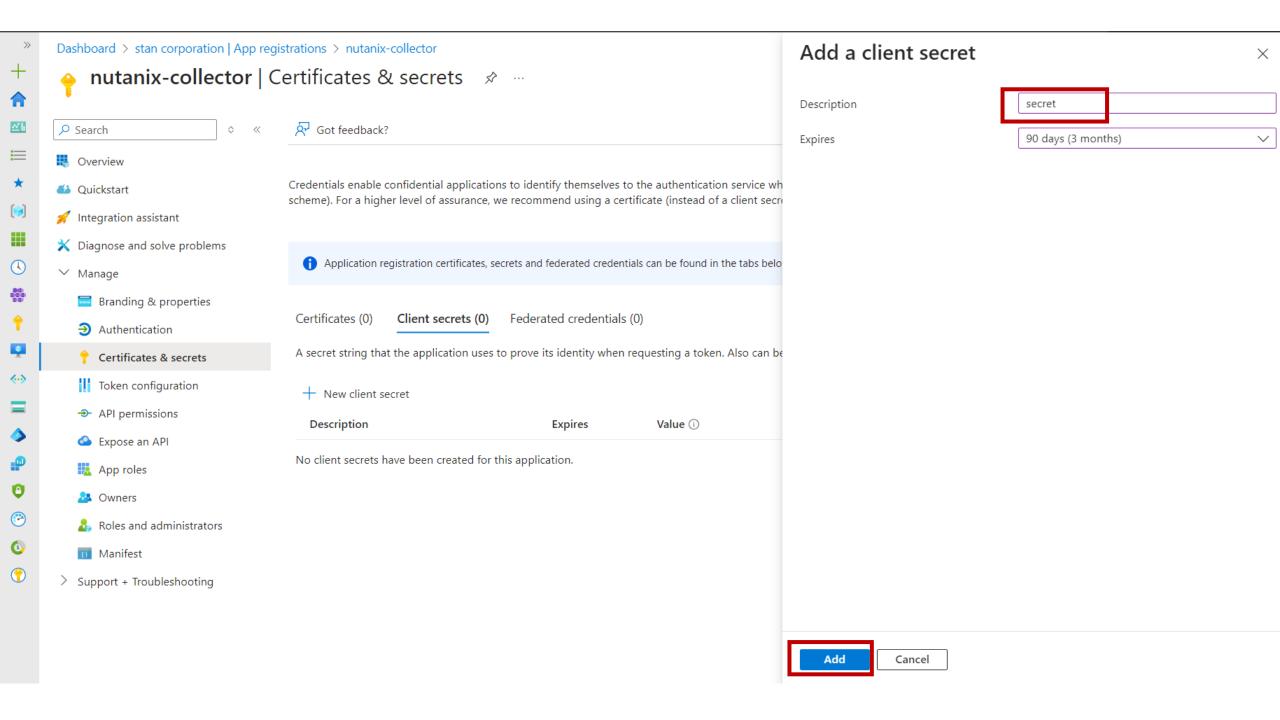


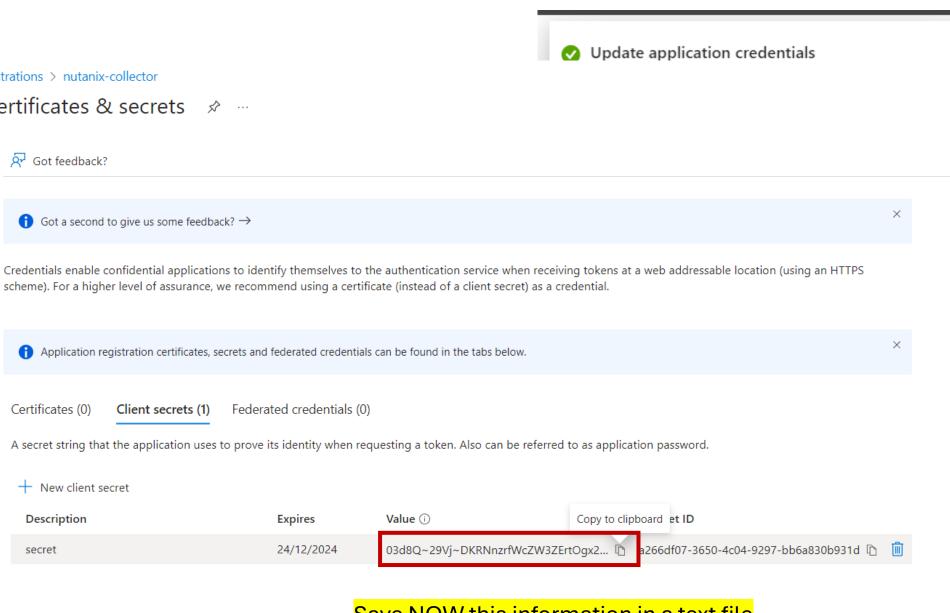












Save NOW this information in a text file /!\ You will see this value only this time

Dashboard > stan corporation | App registrations > nutanix-collector



nutanix-collector | Certificates & secrets | x | ---

Got feedback?

Certificates (0)

New client secret

Description

secret

f) Got a second to give us some feedback? →

Client secrets (1)

Federated credentials (0)

Expires

24/12/2024

Value (i)



- Quickstart Integration assistant
- X Diagnose and solve problems
- ✓ Manage
 - Branding & properties
 - Authentication

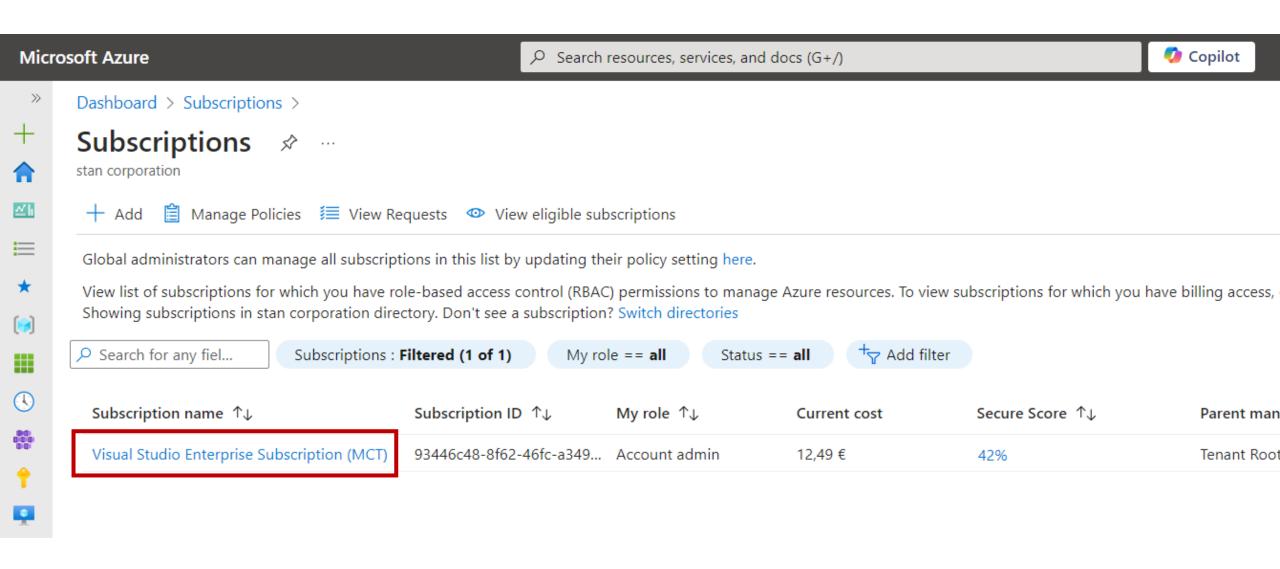


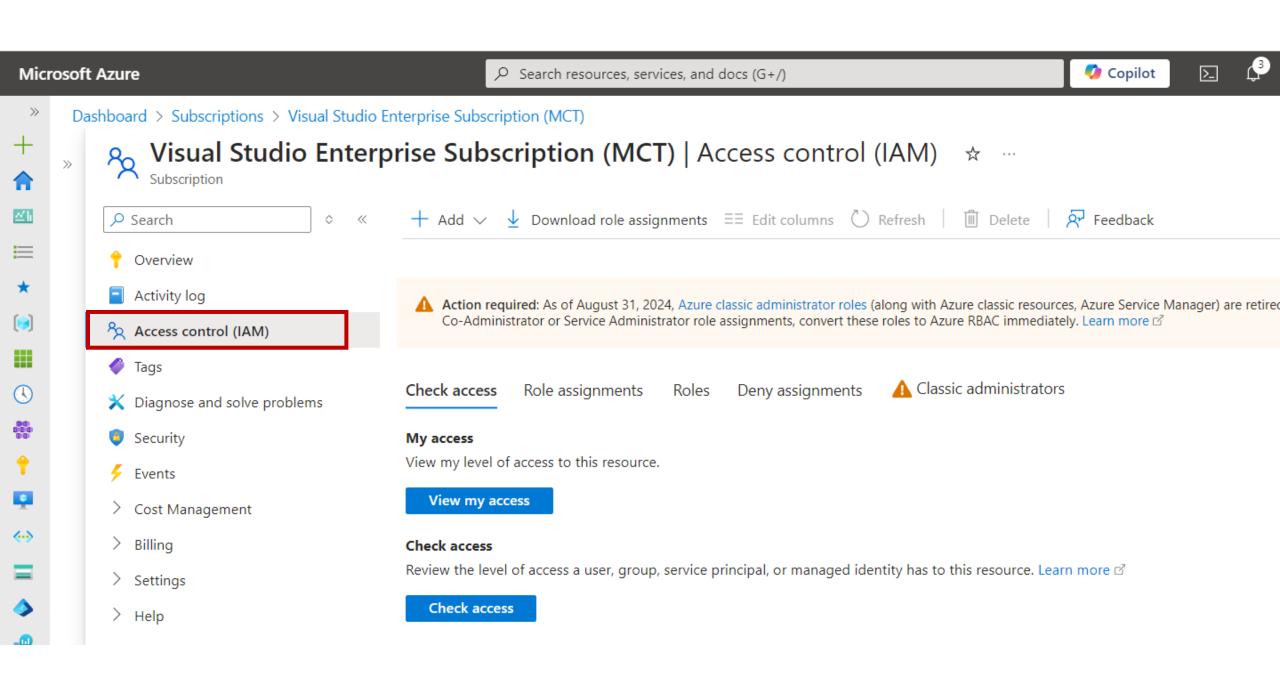
- Token configuration
- API permissions
- Expose an API
- App roles
- Owners
- Roles and administrators
- Manifest
- Support + Troubleshooting

Create an Azure Custom Role

This custom role contains only necessary permissions for Collector

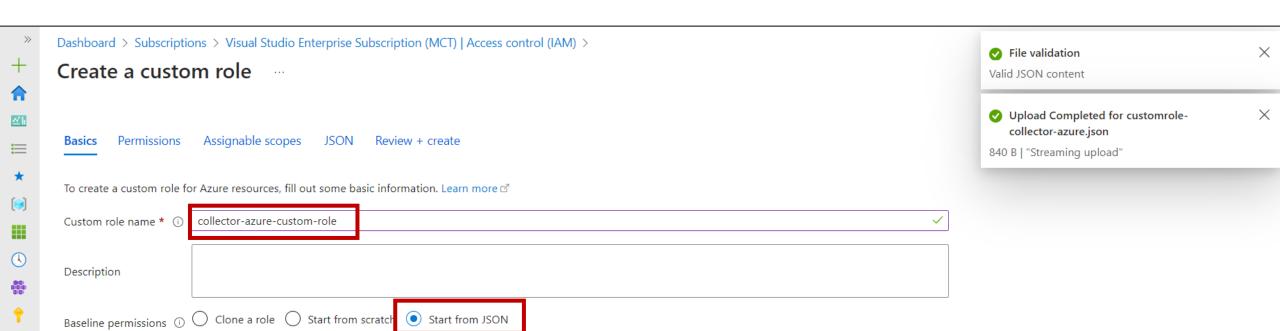
```
"properties": {
    "roleName": "collector-azure-custom-role",
    "description": "",
    "assignableScopes": [
       "/subscriptions/<subscription_id>"
    "permissions": [
            "actions": [
                "Microsoft.Compute/disks/read",
                "Microsoft.Compute/skus/read",
                "Microsoft.Compute/snapshots/read",
                "Microsoft.Compute/virtualMachines/read",
                "Microsoft.Compute/virtualMachines/instanceView/read",
                "Microsoft.Resources/subscriptions/resourceGroups/read",
                "Microsoft.Insights/Metrics/Read"
            "notActions": [],
            "dataActions": [],
            "notDataActions": []
```





Microsoft Azure Search resources, services, and doc >> Dashboard > Subscriptions > Visual Studio Enterprise Subscription (MCT) Visual Studio Enterprise Subscription (MCT) | Acc Subscription **∠**'h Download role assignments << Search \Diamond Add role assignment Overview Add co-administrator Activity log of August 31, 2024, Azure clas Service Administrator role ass Add custom role Access control (IAM) Tags Check access Role assignments Roles (1) Diagnose and solve problems

Security My access



"customrole-collector-azure.json"

File *

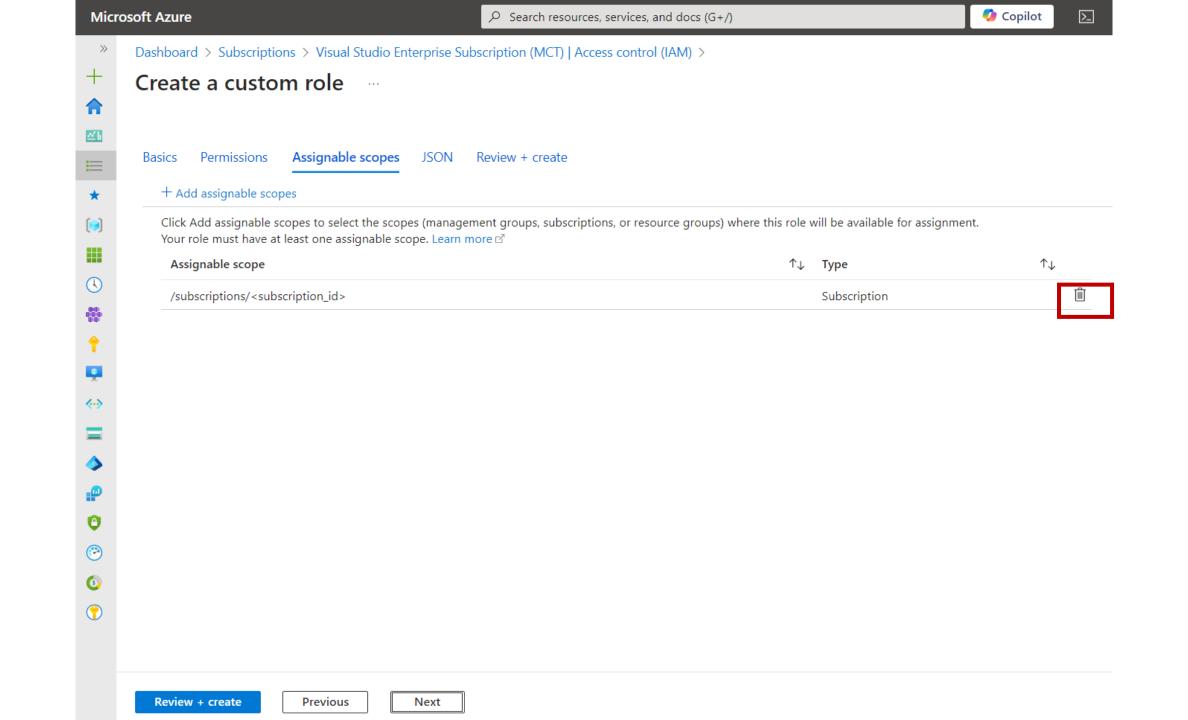


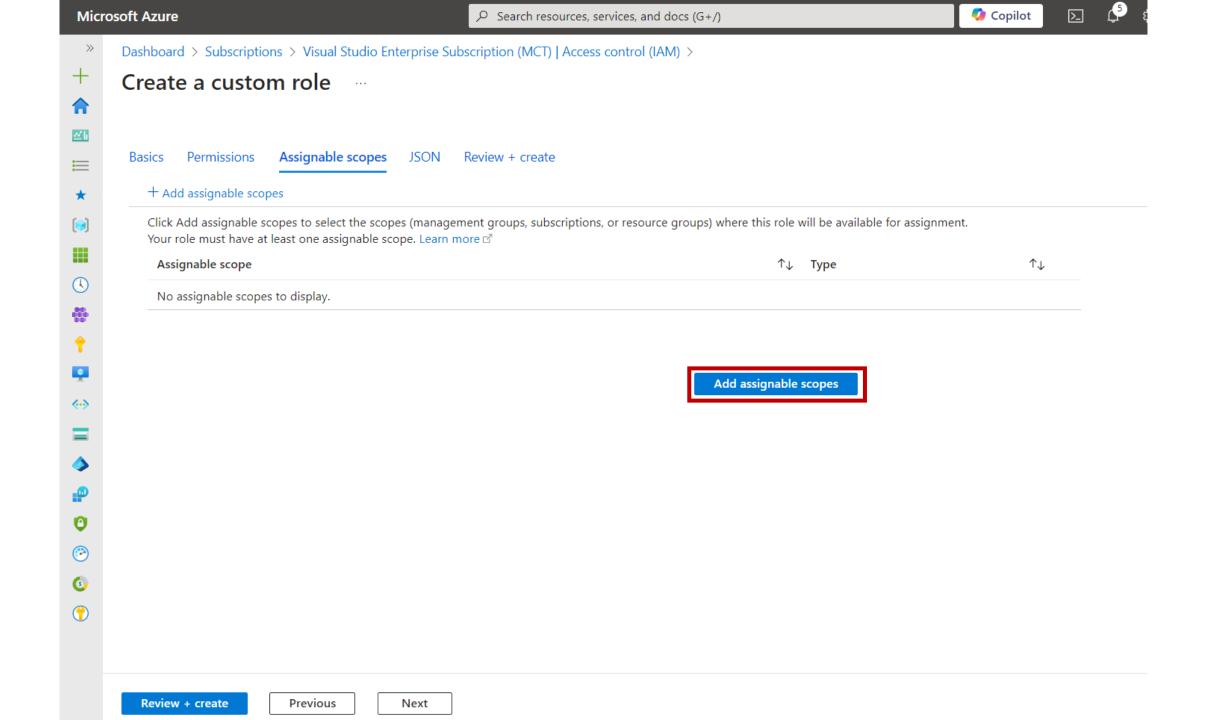


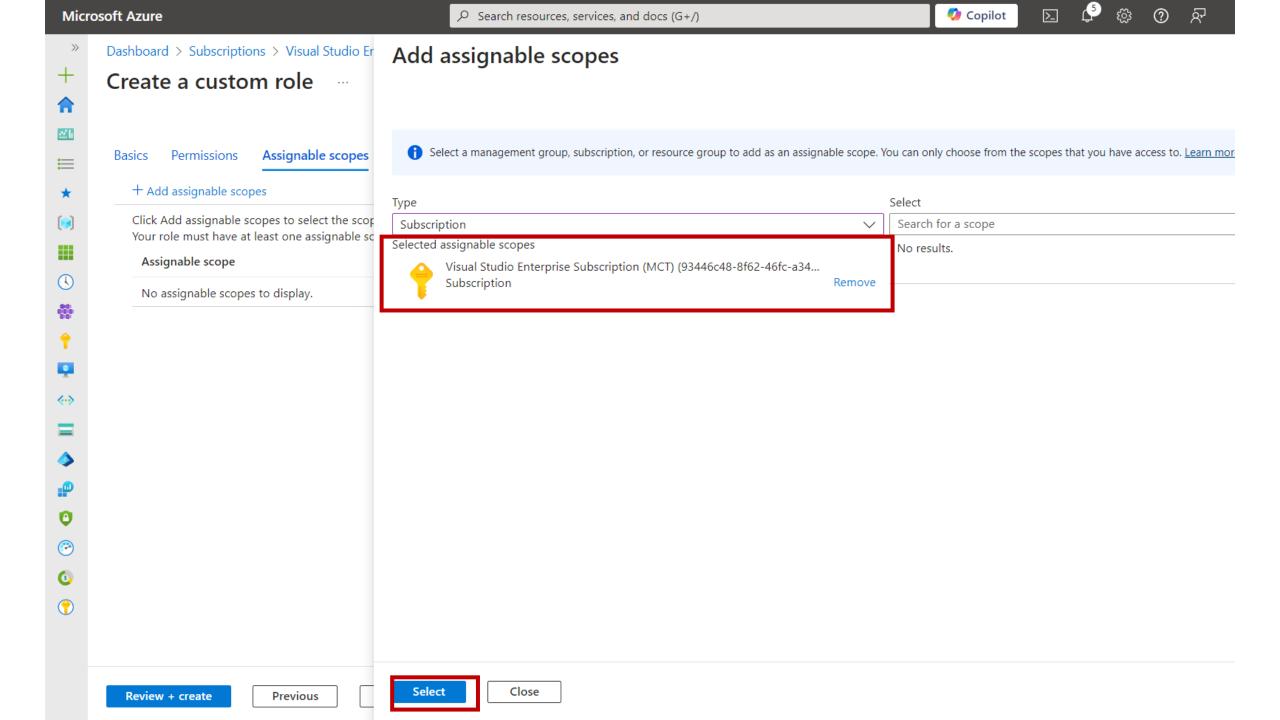


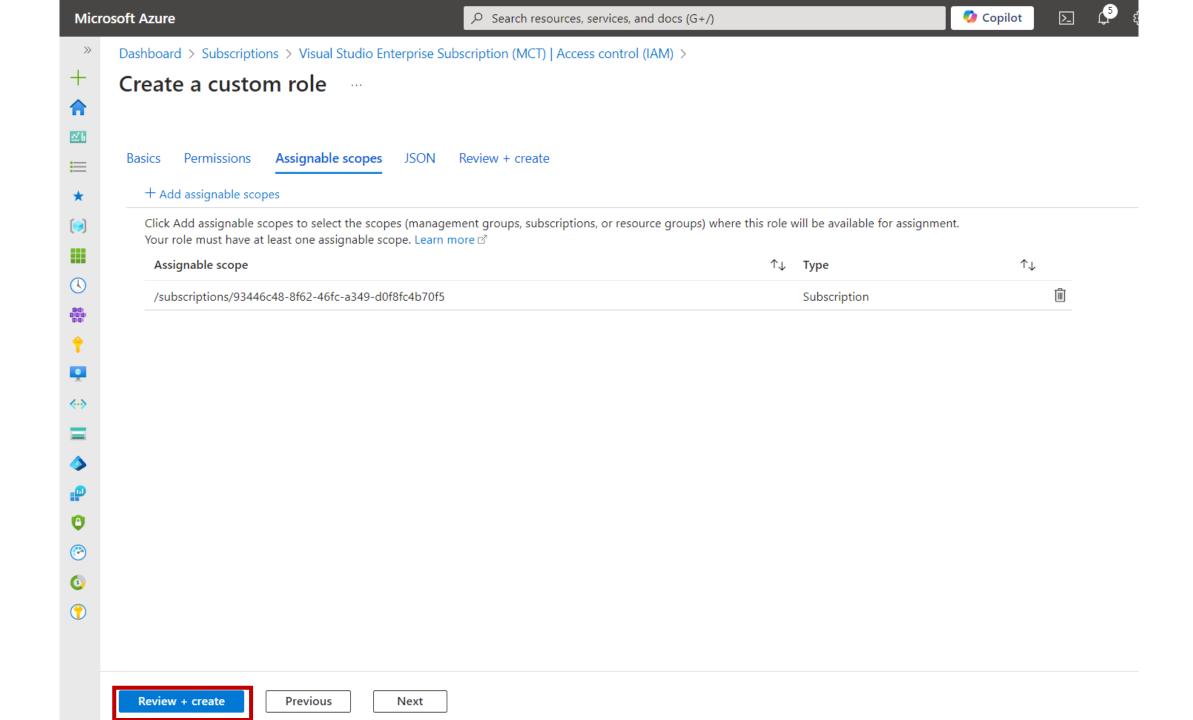
Review + create Previous

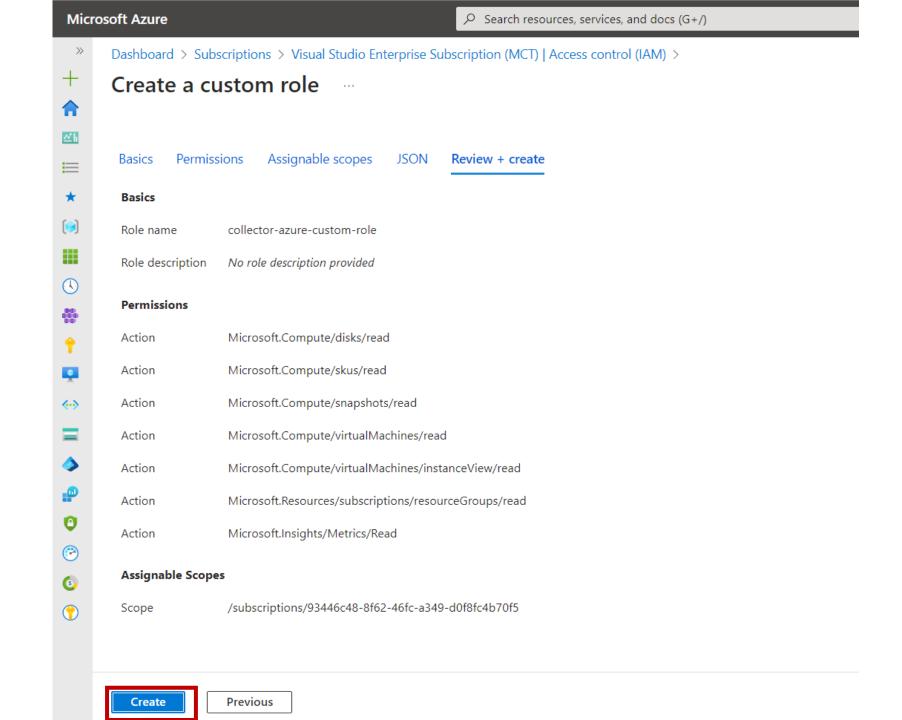


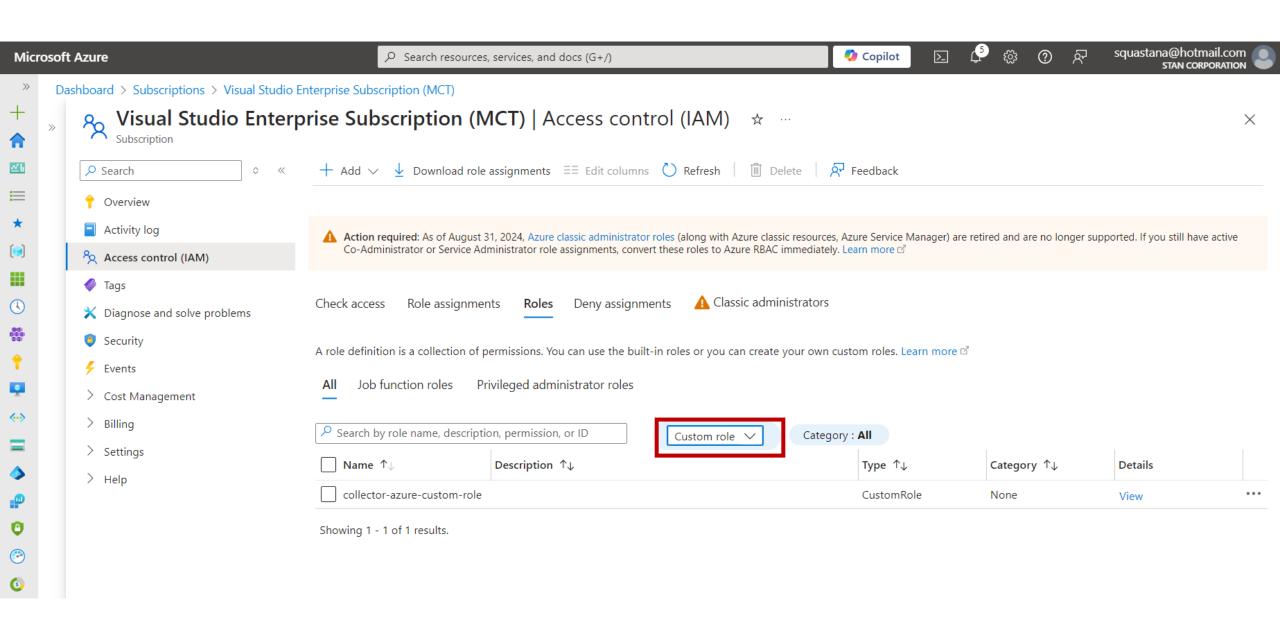




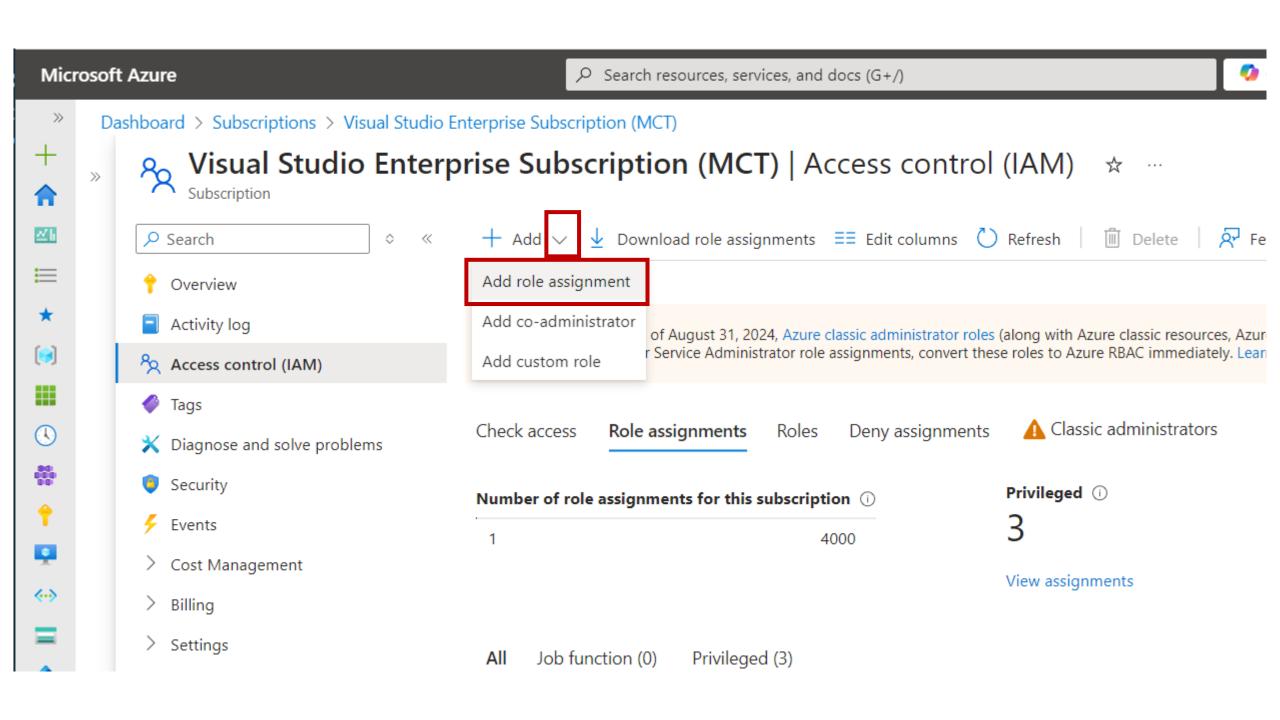


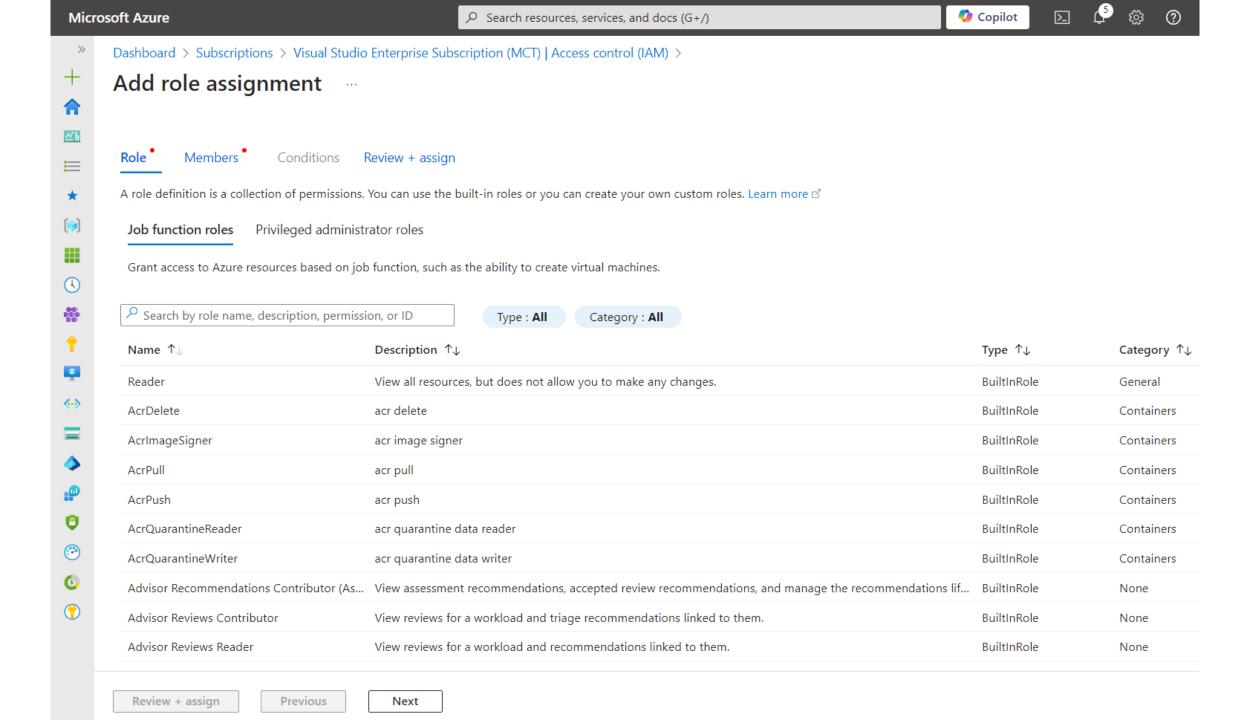


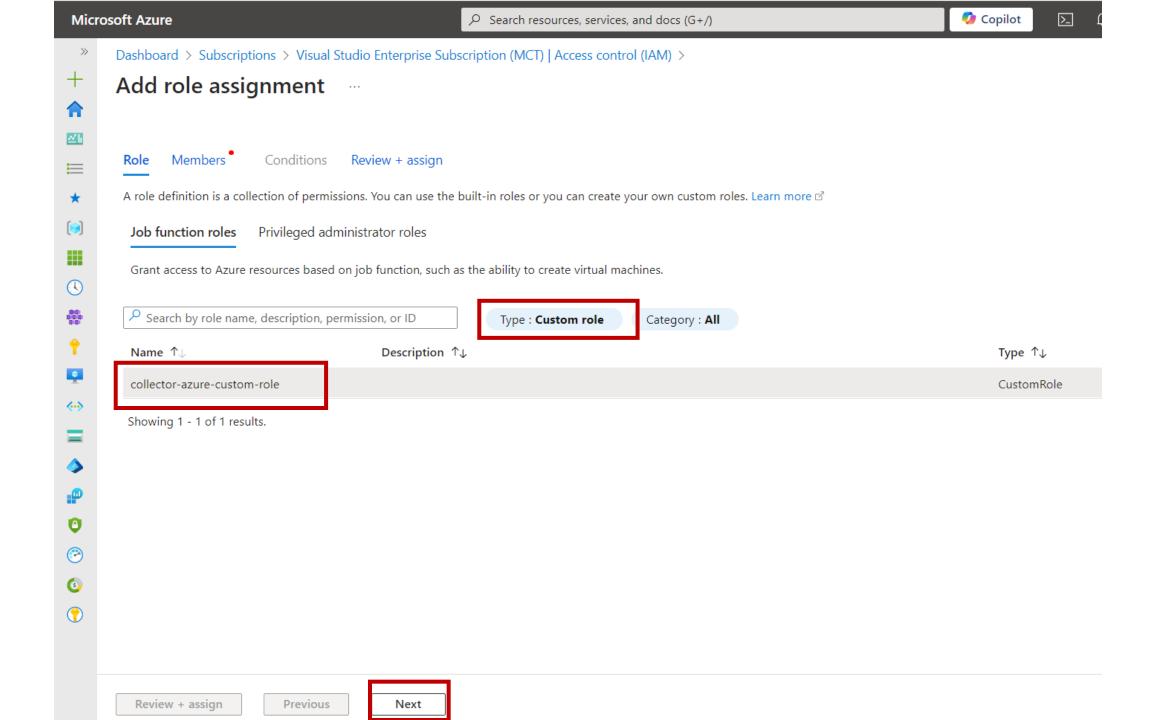


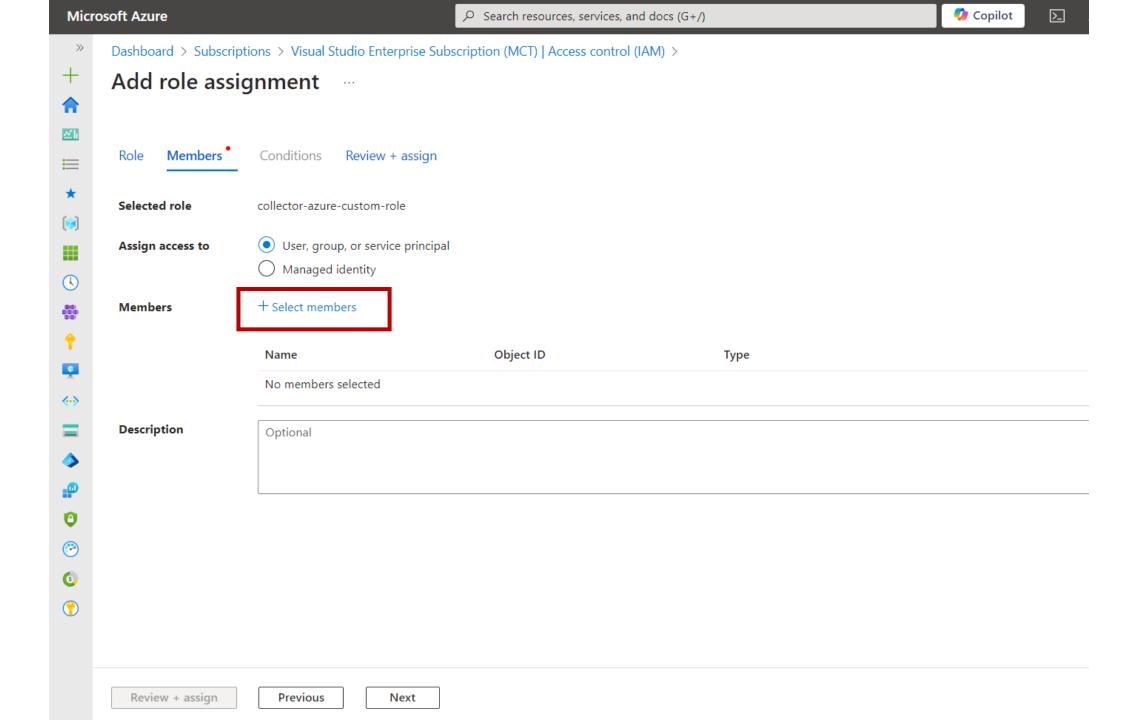


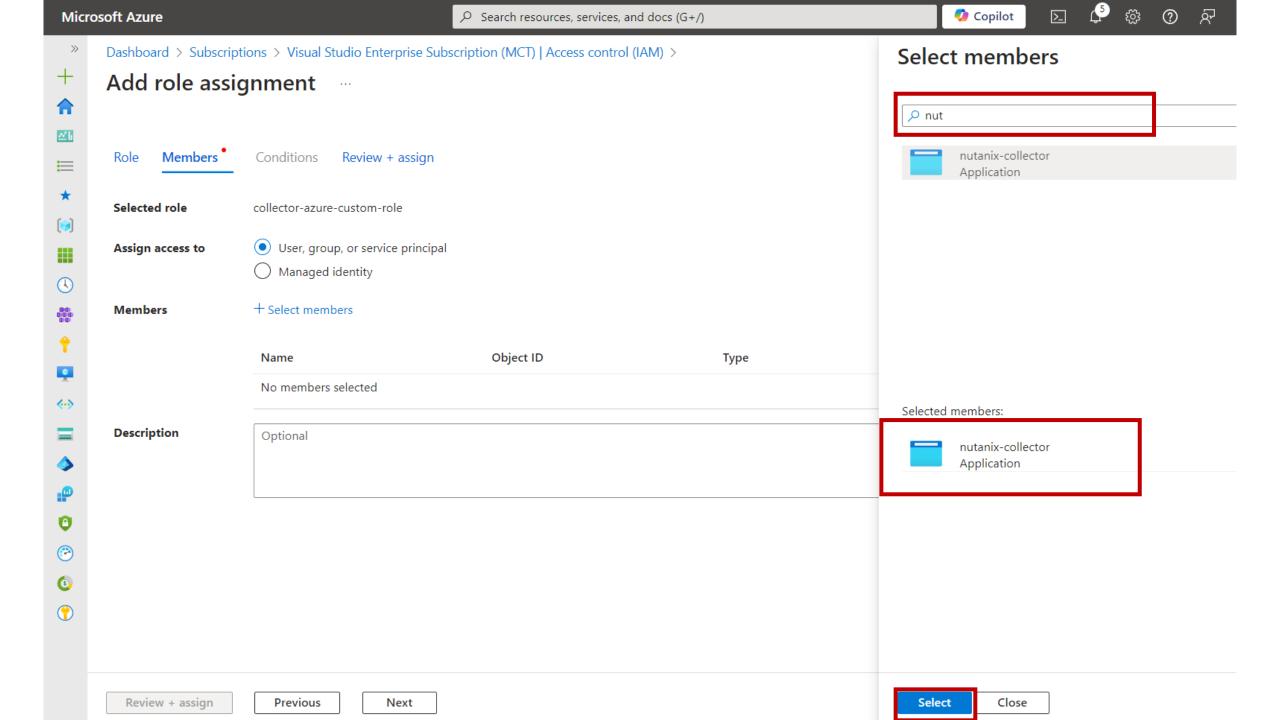
Assign Custom role to Service Principal

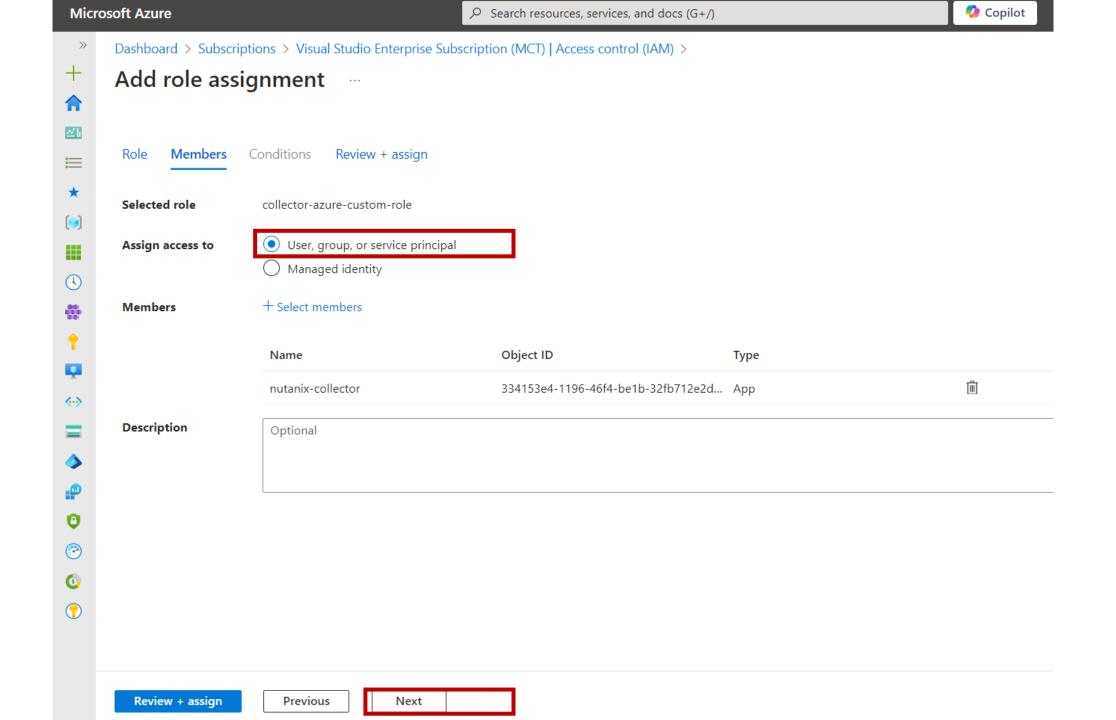


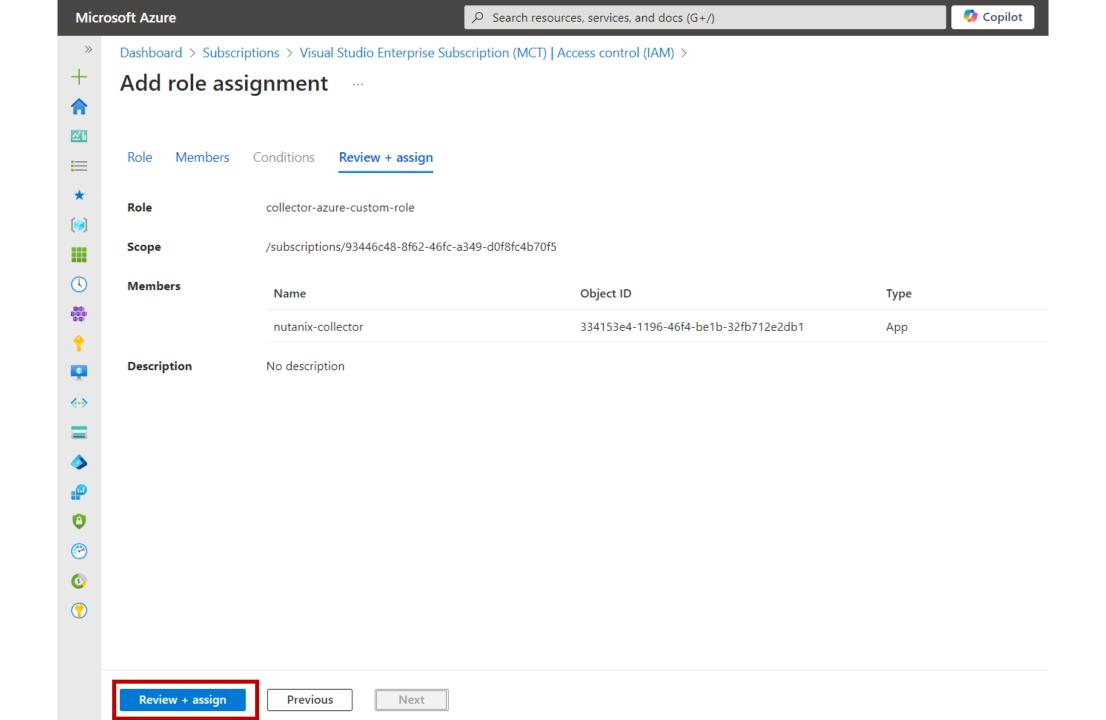


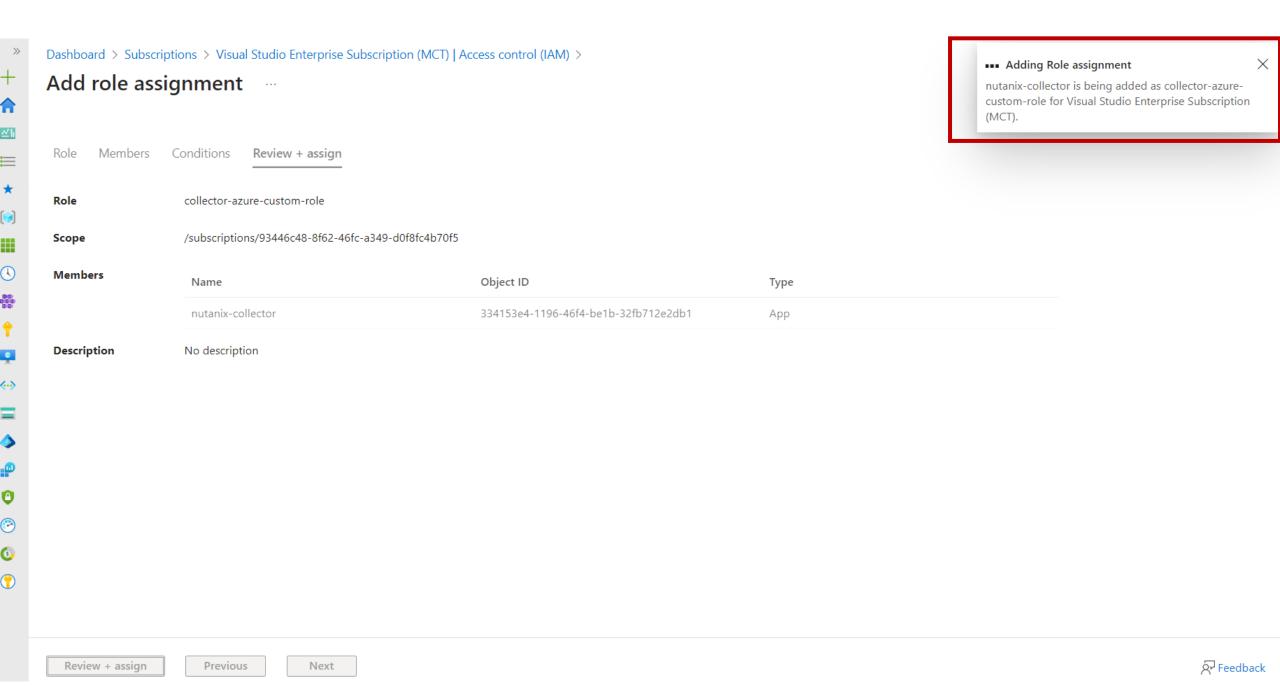


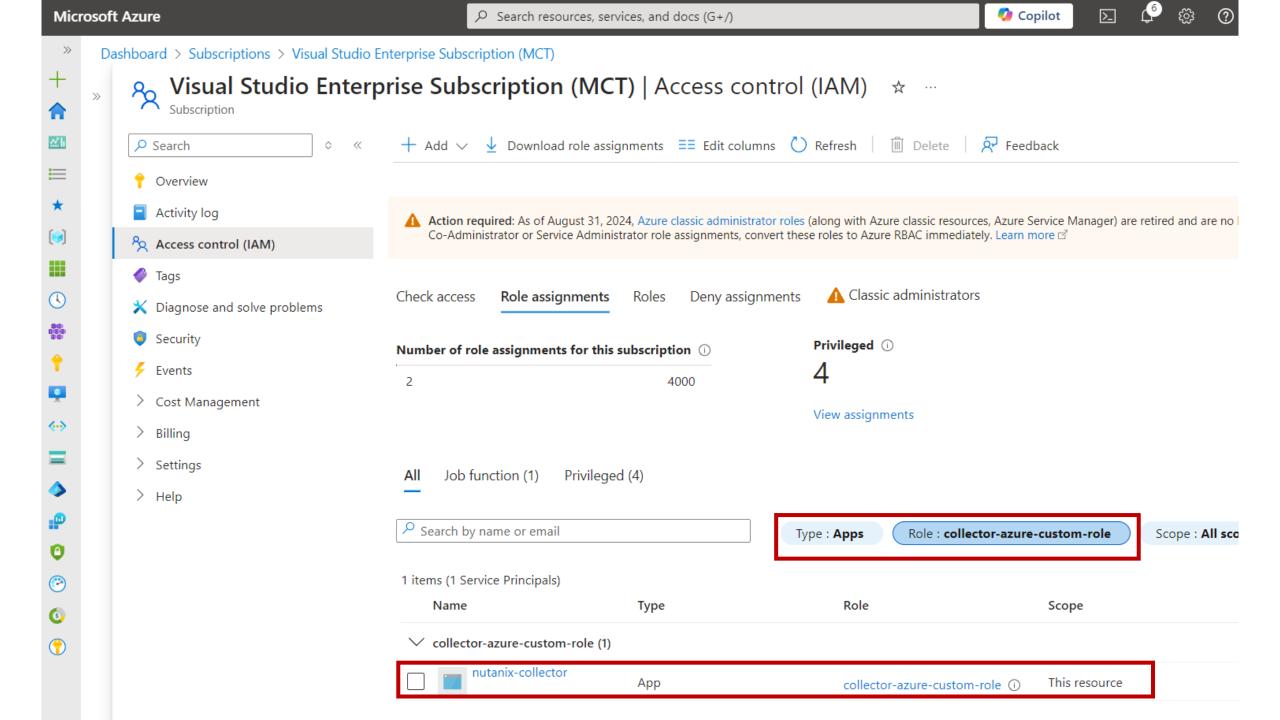












Run the collector via CLI

```
C:\Nutanix\Nutanix-Collector-5.2-win\collector-cli>ntnxcollector_cli.exe azure --client_id d4c52fa7-cece-4aab-a6b7-54b70c8c8198 --
client_secret 03d80~29Vj~DKRNnzrfWcZW3ZErt0gx2.WhZNbfv --tenant_id d22651e3-69c8-46bf-9b48-48e5244518cc --duration 7 --transform f
alse
[2024-09-25 11:12:42,854] [13432] INFO [cli.client:46] Starting Discover request
       Discovering Azure account[2024-09-25 11:12:43,277] [13432] INFO [cli.client:193] Successfully connected to the Azure Account
nt
[2024-09-25 11:12:43,279] [13432] INFO [cli.client:99] Starting Nxcollection
Subscriptions Progress 1 -:--:-
Vms Progress 0
Disks Progress 0
Snapshots Progress 0 -:--:-
[2024-09-25 11:13:13,877] [13432] INFO [cli.client:102] Completed Nxcollection
[2024-09-25 11:13:13,877] [13432] INFO [cli.client:138] Started zip creation
[2024-09-25 11:13:13,912] [13432] INFO [cli.client:141] Completed zip creation
[2024-09-25 11:13:13,913] [13432] INFO [cli.client:129] Starting excel creation
[2024-09-25 11:13:13,971] [13432] INFO [cli.client:132] Completed excel creation
[2024-09-25 11:13:13,979] [13432] INFO [cli.fs:55] Completed saving collection files
[2024-09-25 11:13:13,979] [13432] INFO [cli.fs:56] Path to the collection files directory: C:\Nutanix\Nutanix-Collector-5.2-win\co
llector-cli\2024_09_25_09_12_42
```

C:\Nutanix\Nutanix-Collector-5.2-win\collector-cli>

```
C:\Nutanix\Nutanix-Collector-5.2-win\collector-cli>dir
 Volume in drive C is NCaseStan
 Volume Serial Number is FE69-09F2
Directory of C:\Nutanix\Nutanix-Collector-5.2-win\collector-cli
09/25/2024
            11:13 AM
                        <DIR>
09/25/2024
            08:49 AM
                        <DIR>
09/25/2024 11:13 AM
                        <DIR>
                                       2024_09_25_09_12_42
09/25/2024 11:13 AM
                        <DIR>
                                       logs
09/25/2024
            08:49 AM
                            57,910,344 ntnxcollector_cli.exe
09/25/2024
            08:49 AM
                                    67 ntnx_config.json
09/25/2024
            08:49 AM
                                16,212 README.pdf
09/25/2024
                                       templates
            08:49 AM
                        <DIR>
               3 File(s)
                             57,926,623 bytes
                         861,558,042,624 bytes free
               5 Dir(s)
```

