

THE VEGA SETUP GUIDE

AZURE SUBSCRIPTIONS

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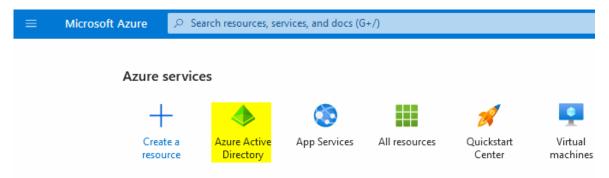
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SECTION 01

New App Registration: Add Vega to Subscription

When you use a 3rd party software application with your Azure Subscription, you need to create an application registration. This registration is the first step of the process in allowing an Azure Subscription to be imported to the Vega platform.

To get started: Log into your Azure Portal (https://portal.azure.com/). From the Azure Portal Home Screen, select "Azure Active Directory".



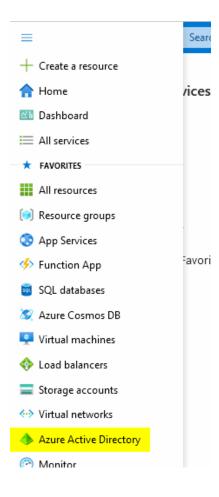
AZURE PORTAL HOME SCREEN

If you do not see the Home Screen, select the hamburger icon in the upper left of the screen. This is the Azure Portal Menu.

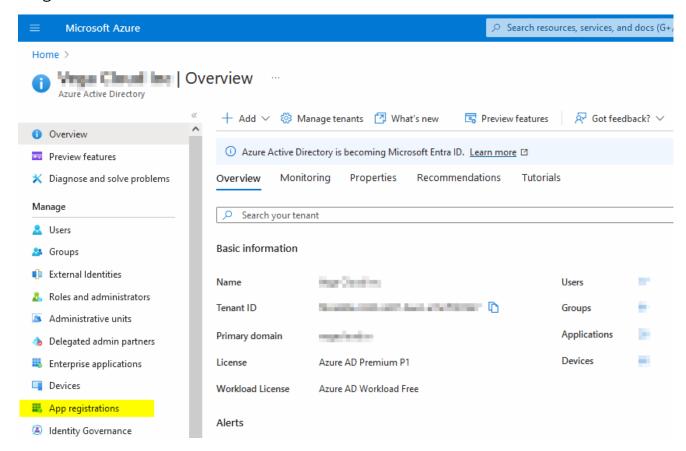
Select "Home" from the top of the menu list.

Once you are on the Home Screen, you need to select "**Azure Active Directory**" from your Azure services list.

If the "Azure Active Directory" entry is not in your list of services, it can be found in the Azure Portal Menu.



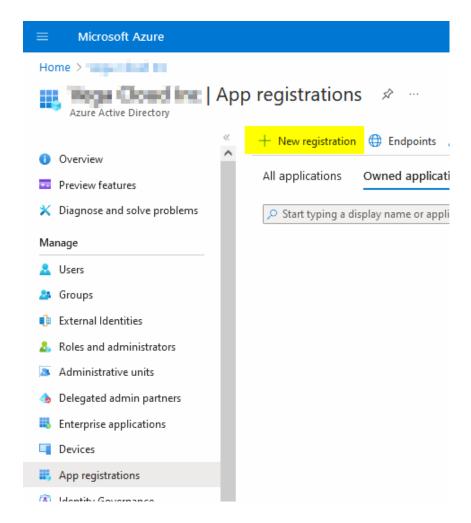
Once you're on the Active Directory Screen, select "App Registrations" from the left navigation menu.



AZURE ACTIVE DIRECTORY SCREEN

NEW ARR REGISTRATION: ADD VEGA TO SUBSCRIPTION

On the App Registration Screen, click the "+ New registration" (highlighted here). You will have to enter a Name, we suggest "VegaAzureApp".



AZURE APP REGISTRATION SCREEN

Select the Supported account type of "Accounts in the organizational directory only" – single tenant.

Next select your Redirect URI, this should be "Single-page application (SPA)" with a URL = "https://portal.vegacloud.io/azureauth".

Once all these values are provided, select "**Register**" and you've finished creating the Vega Azure App.

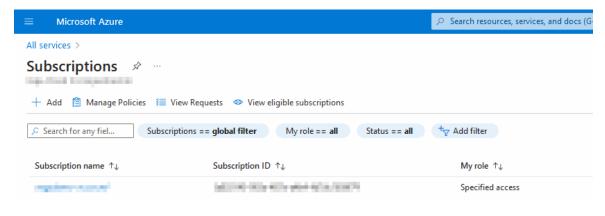
SECTION 02

New Custom Role: Give Vega Permissions

Now that we have an application registration, we need to control the amount of access we grant to the application. This is done by creating a limiting custom role in the subscription you are importing into Vega. Vega will supply the required JSON needed to create this custom role, based on the setting you selected in Vega for this particular subscription.

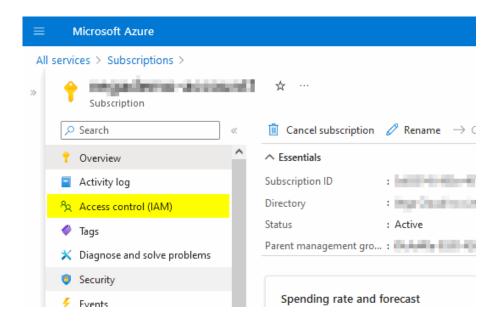
Let's start creating the custom role. First select the subscription that you are importing. This is done from the "Azure Home Screen". Click "More services" to see full services list. Search "Subscriptions" from the top search bar, or select "Subscriptions", found in the General category of services.

Select "**Subscriptions**". Then select the subscription being imported.



AZURE SUBSCRIPTIONS SCREEN

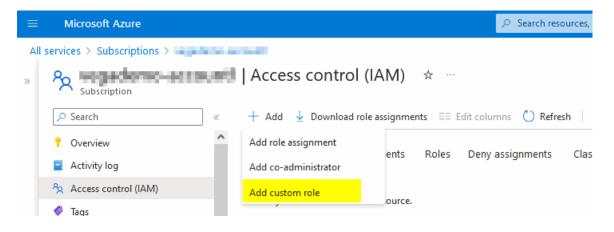
Select "Access control (IAM)" from the left side navigation menu.



AZURE SUBSCRIPTION DETAIL SCREEN

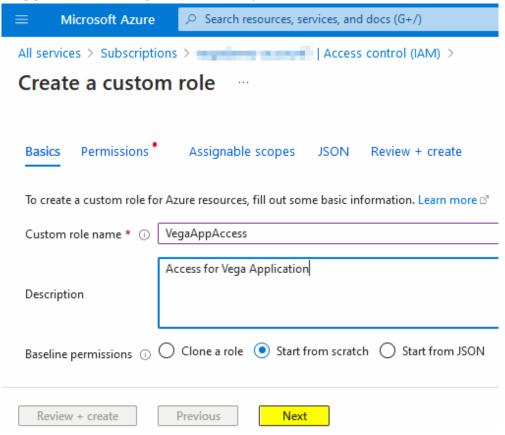
Select "+ Add" from the top navigation menu.

Then, select "Add custom role" (highlighted here)



AZURE ACCESS CONTROL (IAM) SCREEN

NEW CUSTOM ROLE: Once the modal opens, fill in "**Basics**" tab information. First create a custom role name, we recommend "**VegaAppAccess**". Add a useful Description like "**Access** for **Vega Application**". For your Baseline permissions, select "**Start from scratch**".



AZURE CREATE CUSTOM ROLE: BASIC SCREEN

Then, select "Next" to move on to the "Permissions" tab. We will leave this tab as is.

Select "Next" to move onto the "Assignable scopes" tab. We will also leave this tab as is.

"Next" again to select the "JSON" tab.

```
Microsoft Azure
                    All services > Subscriptions > All services > Subscriptions >
Create a custom role
Basics Permissions
                     Assignable scopes JSON Review + create
   Here is your custom role in JSON format. Learn more ♂
    Download
                                                                                                     Edit
                 "roleName": "VegaAppAccess",
                 "description": "Access for Vega Application",
                 "assignableScopes": [
                     "/subscriptions/1
                  permissions": [
      8
     10
                        "actions": [],
                        "notActions": [],
     11
                        "dataActions": [],
     12
     13
                        "notDataActions": []
     14
     15
     16
     17
 Review + create
                   Previous
                                 Next
```

Click "Edit"

You need to update the default Azure Role permissions block with the JSON permissions provided to you by your Vega Rep. There are two files. One Azure permissions JSON file is for discovery only (Azure Vega Inform Optimize Permissions.json), if your corporate policy only allows for third parties such as Vega read only access and the other file (Azure Vega Operate Permissions.json) enables Vega the access to take actions such as Instance Parking on your behalf. Copy the provided permissions block from your chosen permission set file into the editor.

```
"Microsoft.Resources/subscriptions/resourceGroups/read",
"Microsoft.Compute/virtualMachines/read",
"Microsoft.Compute/virtualMachines/instanceView/read",
"Microsoft.Compute/disks/read",
"Microsoft.Compute/availabilitySets/read",
"Microsoft.Compute/spanshots/pood"
```

Find the "actions" array in the "permissions" section. Select the square bracket pair and paste in the Vega-provided

permissions. (See image below)

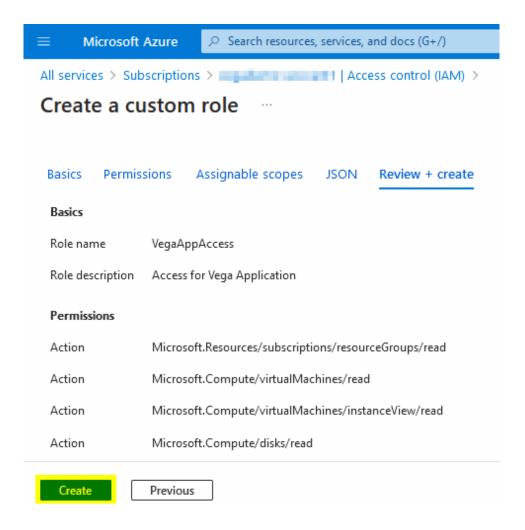
```
2
        "properties": {
            "roleName": "VegaAppAccess",
 3
            "description": "Access for Vega Application",
5
            "assignableScopes": [
 6
                "/subscriptions/
7
            ١,
                                   Replace brackets with permissions
8
            "permissions": [
 9
               {
                   "actions": [],
10
11
                   "notActions": [],
                   "dataActions": [],
12
                   "notDataActions": []
13
14
15
            1
16
17
    }
```

After pasting in the content, it will need formatting before you can save.

```
"properties": {
    2
                "roleName": "VegaAppAccess",
    3
                "description": "Access for Vega Application",
    4
                "assignableScopes": [
    5
                    "/subscriptions/
    7
                ],
    8
                 "permissions": [
                     "Microsoft.Resources/subscriptions/resourceGroups/read",
                    "Microsoft.Compute/virtualMachines/read",
   10
   11
                    "Microsoft.Compute/virtualMachines/instanceView/read",
                    "Microsoft.Compute/disks/read",
   12
   13
                    "Microsoft.Compute/availabilitySets/read",
   14
                    "Microsoft.Compute/snapshots/read",
                    "Microsoft.Network/virtualNetworks/read",
   15
leview + create
                   Previous
                                   Next
```

- 1. **select all the text** in the Azure Portal role edit window using **<ctrl + a>**
- To format the JSON in the edit window correctly press <ctrl + k> keys, then <ctrl +f> keys.
- 3. "Save" with the button over the edit window, then click "Next" below the edit window.

PERMISSIONS: On the "Review + create" tab, click "**Create**" and you have finished creating a custom role.



AZURE CREATE CUSTOM ROLE: REVIEW + CREATE SCREEN

SECTION 03

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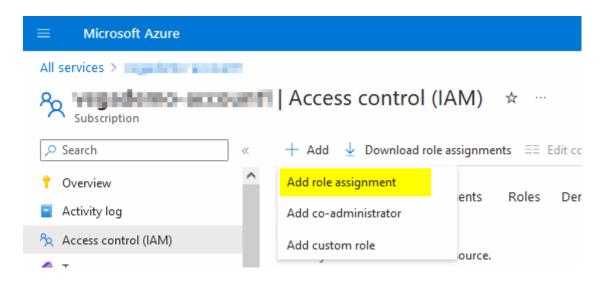
Assign Custom Role: Give App Registration Permissions

Now that we have both the new App Registration and new Custom Role, we can give the

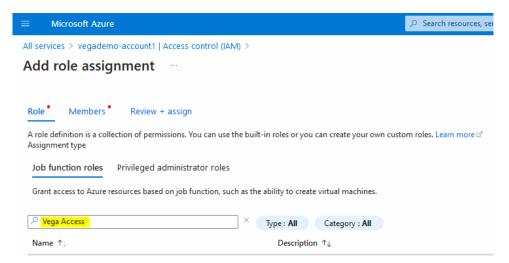
the import of an Azure Subscription. First select the subscription that you are importing. This is done from the "Azure Home Screen"

Select "**Subscriptions**", then select the specific subscription being imported. Select "**Access control** (**IAM**)" from the left side navigation menu.

Select "+ Add" from the top navigation menu, then select "Add role assignment"



Select your role "**Vega Access**" (You can type "**Vega**" to filter the dropdown list to find it more easily). Leave the default for "**Assign access to**" selection.



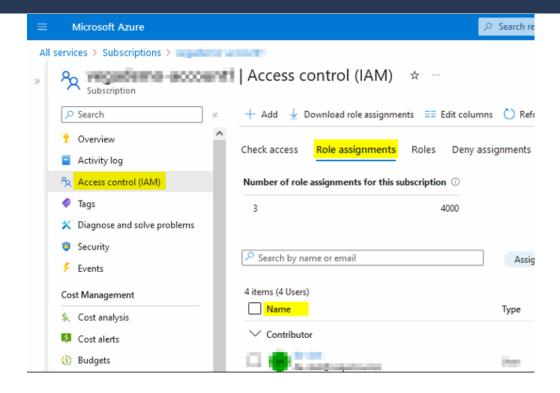
Select your app registration, you need to do this by typing the name "**VegaAzureApp**", or just "Vega" will also bring up your selection to select.

Click "Save" and you have finished assigning a custom role.

Now you should see your *Vega Access Role* assigned to your *VegaAzureApp* Application Registration.

Vega should now be able to work with this subscription. If you wish to verify your role assignment, you can go to your subscription's role assignments and verify your newly attached role.

You will have to perform these steps for each Azure Subscription you wish to work with in the Vega Application.

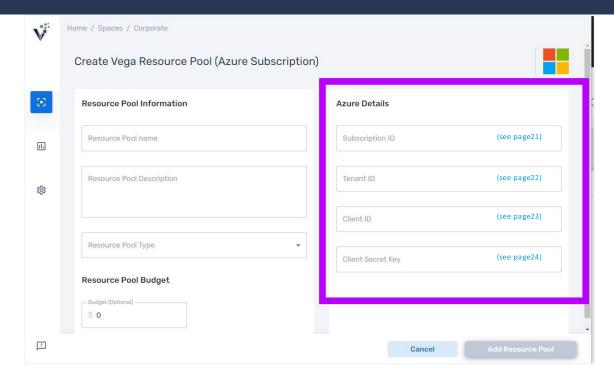


AZURE SUBSCRIPTION ROLE ASSIGNMENTS

SECTION 04

Vega Create Workload: Get Azure Subscription Info

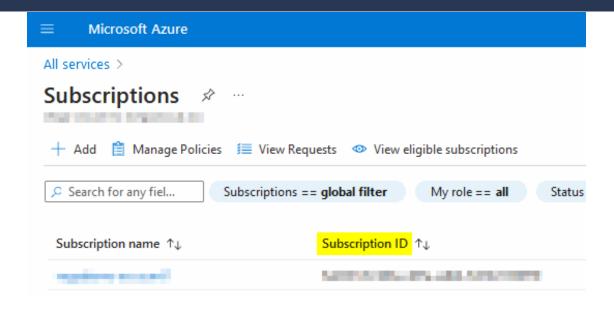
Now that we have the Azure Subscription configured, we can now supply the required information to the Vega Create Workload process. You need to supply **4 pieces** of Azure specific information to Vega so we can perform actions within your Azure Subscription, then add all the required information and click the "Add Resource Pool" button.



CREATE VEGA RESOURCE POOL

Getting your Subscription ID

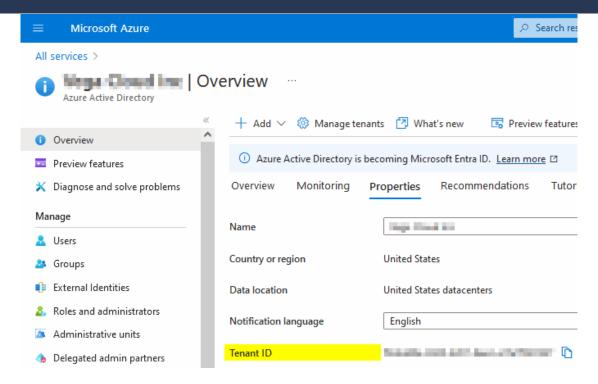
- 1. Log into your Azure Portal
- 2. Select "Subscriptions" in the left navigation menu
- 3. Select the specific Subscription you are creating a Vega Workload from
- 4. From the navigation menu, click "Overview"
- 5. **Copy your Subscription ID** from here and paste it into the Subscription ID field in the Vega Workload Azure Details form



SUBSCRIPTION ID SCREEN

Getting your Tenant ID

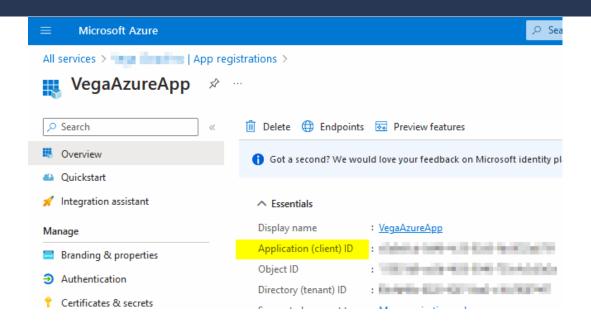
- 1.Log into your **Azure Portal**
- 2. Select "Azure Active Directory" in the left navigation menu
- 3.Click on "Properties"
- 4.**Copy your Directory/Tenant ID** from here and paste it into the Tenant ID field in the Vega Workload Azure Details form



TENANT ID SCREEN

Getting your Application/ Client ID

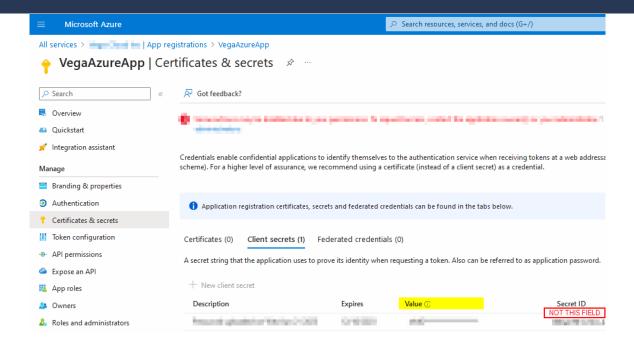
- 1.Log into your Azure Portal
- 2. Select "Azure Active Directory" in the left navigation menu
- 3. Select "Enterprise Applications"
- 4. Select "All Applications"
- 5. Select the "VegaAzureApp" application that you created
- 6. Click "Properties"
- 7.**Copy your "Application ID"** from here and paste it into the Client ID field in the Vega Workload Azure Details form



APPLICATION/CLIENT ID SCREEN

Getting your Application Access Key/ Client Secret Key

- 1.Log into your Azure Portal
- 2. Select "Azure Active Directory" in the left navigation menu
- 3. Select "App registrations"
- 4. Select the "VegaAzureApp" application that you created
- 5. Select "Certificates and Secrets"
- 6. Select "+ New Client Secret"
- 7. Add a key description such as "Vega Azure App"
- 8. Set expiration to "Never"
- 9. Click "Add"



10.Copy your Application Access Key/ Client Secret Key Value from here and paste into the *Client Secret ID* field in the *Vega Workload Azure Details* form.

NOTE: Store this value in a safe place as you will not be able to retrieve this again once you leave the page in Azure Portal.

If you have any questions, please contact your client success manager

