

# OAC Vision Demo deployment

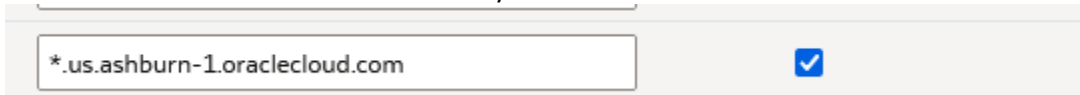
This guide will illustrate how to setup and deploy your own AI Vision demo in OAC as well as download and deploy prebuilt Vision demo samples.

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## Pre-requisites

- Requires OAC July 22 and above
- All images must be in their original extension (changing the extension is not permitted)
- Users must have access to their tenancy OCI console as it will be required to create an API key
- Whitelist your Image URL domain. Navigate to console > Safe Domains and include a entry similar to the one shown below but with your own OAC domain



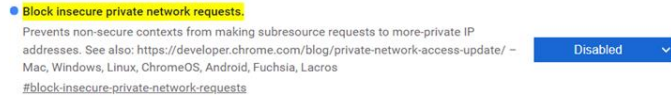
- Users must download the Vision Series plugin for the OAC public library and upload to their OAC instance. [OAC public library](#)



## Browser Requirements

- When using the vision plugin FF is recommended. Users that use **Chrome** will need to perform the following

- Open your chrome browser and copy the following URL chrome://flags/#block-insecure-private-network-requests
- Set the following setting to disable

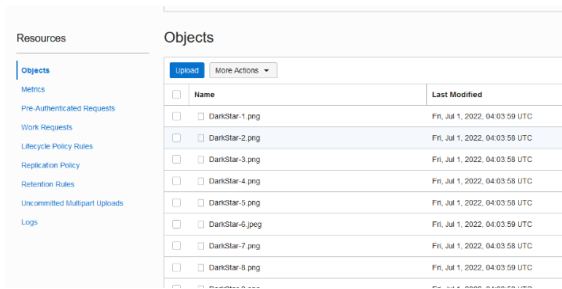


- Install the following extension to your **Chrome browser**:  
[https://chrome.google.com/webstore/detail/always-disable-content-se/ffelghdomoehpceihalcnbmndohkibj?utm\\_source=chrome-ntp-icon](https://chrome.google.com/webstore/detail/always-disable-content-se/ffelghdomoehpceihalcnbmndohkibj?utm_source=chrome-ntp-icon)

## Upload Images

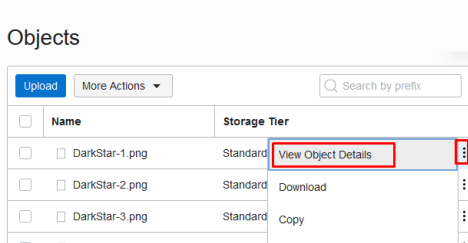
1. Logon to your OCI account and navigate to Storage > Buckets, either create a new or upload all of your images to an existing public OCI bucket (note: the bucket does not have to be directly tied to your OCI account but is recommended)
  - a. In this example we have uploaded 29 images to a bucket called topgunDemo
  - b. **Note:** your bucket must be made public

screenshot 1



2. Once the images are uploaded users must create a csv file with the following columns as shown in screenshot 4
  - a. You will need a line item for each image in your bucket. For example, obtain the base URL of your bucket. To do this navigate to your bucket and click on the properties of any image in your bucket, this is your base URL
  - b. Now take your base URL and append your image name to the end, repeat this process for each of the images in your bucket.
  - c. Note: you may be able to copy and paste all columns directly from your bucket to help speed the process along.
  - d. once you have completed this for all images save as a .csv file.

screenshot 2



screenshot 3



screenshot 4

	A	B	C	D	E	F
1	Id	Image Name	File Location	Uploaded Date	Size	Type
2	1	DarkStar-1.png	<a href="https://objectstorage.us-ashburn-1.oraclecloud.com/n/analyticstest/b/topgunDemo/o/DarkStar-1.png">https://objectstorage.us-ashburn-1.oraclecloud.com/n/analyticstest/b/topgunDemo/o/DarkStar-1.png</a>	Fri, Jul 1, 2022, 04:03:59 UTC	500.64 KIB	Standard
3	2	DarkStar-2.png	<a href="https://objectstorage.us-ashburn-1.oraclecloud.com/n/analyticstest/b/topgunDemo/o/DarkStar-2.png">https://objectstorage.us-ashburn-1.oraclecloud.com/n/analyticstest/b/topgunDemo/o/DarkStar-2.png</a>	Fri, Jul 1, 2022, 04:03:58 UTC	56.41 KIB	Standard

## Create OCI connection

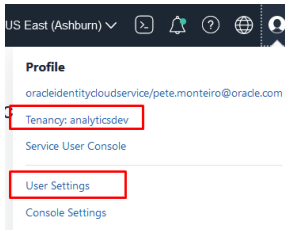
1. Logon to your OAC instance and create a OCI resource connection



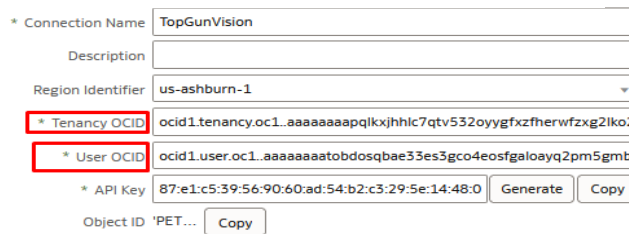
OCI Resource

2. Fill the details to your connection as it pertains to your OCI tenancy where **OCI Vision service** exist.
  - a. Note **Tenancy OCID** and **User OCID** are obtained by access details from the **user profile** as shown on the right in screenshot 6. Click each link as highlighted in red to obtain details:
    - When all details are filled in click **'generate'** API Key
    - Users can only have 3 API keys per user account in OCI
    - When your API key is generated copy the API key to a notepad.
    - **IMPORTANT:** prior to saving your connection you **MUST** complete step 3 actions A and B prior to saving your connection in OAC.

screenshot 5

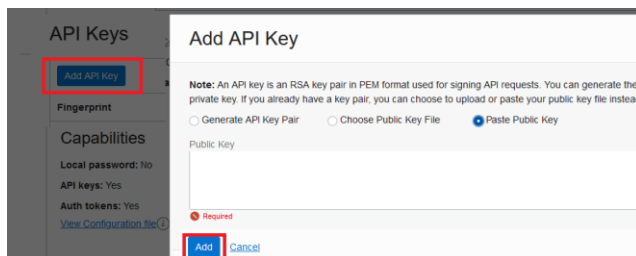


screenshot 6



3. From your OCI console create a new API key
  - a. Click on the profile icon as shown in screenshot 5 and navigate to User Settings > API Keys
  - b. Paste the content of your API key as generated in step 2a above and click add. (see screenshot 7 below)
  - c. **wait 10 to 20 seconds before saving the connection in OAC for the API changes to replicate.**

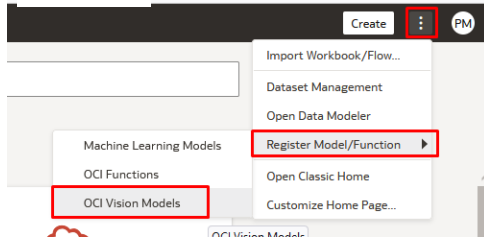
screenshot 7



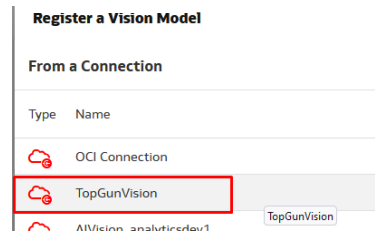
4. Return to your OAC instance and register your OCI vision Model

- Select your connection created earlier in 'create connection' step > select your pretrained vision model, specify your **staging bucket** name and click register.
- Note your staging bucket name can be any public bucket in your tenancy.

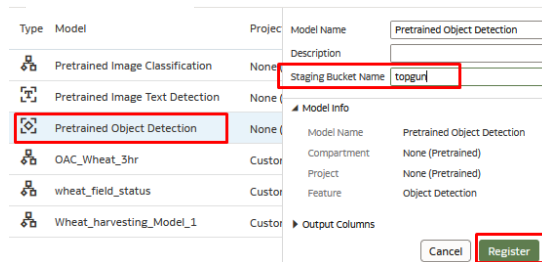
screenshot 8



screenshot 9



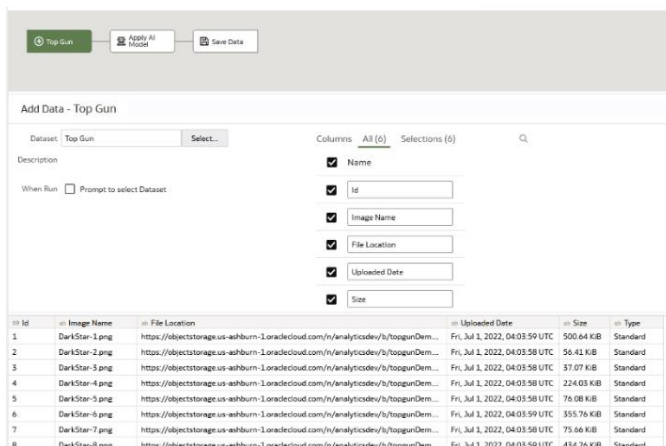
screenshot 10



## Create your OAC dataflow

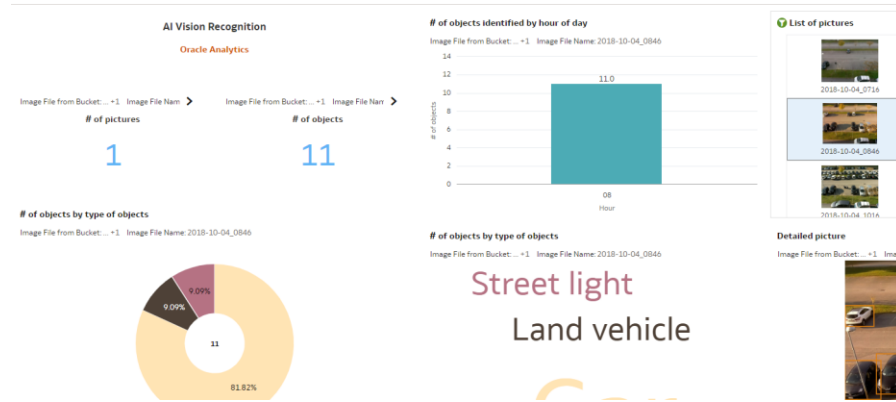
- Return to your OAC instance to upload and save your csv file created earlier in the process.
  - From your OAC instance create a dataflow > select your recently uploaded csv file > add a step to the dataflow and select Apply AI Model
  - Build your dataflow. Users can leave all default selection with the exception the following
    - Input Column should be set to 'File Location'
    - Input type field should be set to 'Images'
  - Add one additional step to save your data to a file
  - Save your dataflow and run.
  - Once your DF has run successfully you can create a new workbook using the output file specified in the save data section of your DF.

screenshot 11 (Sample dataflow)



## Build your samples

Return back to the OAC home page and create a new workbook using the output file from your dataflow.



## Restoring Vision Demo Samples

In this process we will be restoring the output datafiles and DVAs for the Car Parking, Fighter Jet and Wheat field demos. Users looking for the complete underlying dataflows must perform all the above mentioned steps using the asset specific content for each demo.

[Download our Vision Demo Samples](#), import directly into your OAC instance. Follow the steps in the readme to import all required components. When completed you will have the following samples.

