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Manage Offensive Behavior Using AI Language, Speech, and Video with Oracle APEX

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Due to the nature of the product architecture, it may not be possible to safely include all features described in this document without risking significant destabilization of the code.

The data used for the exercises of this document is synthetic. It does not reflect real data from any vendor and/or industry. Names and values on the data are also fictional and do not refer by any means to any past, current or future persons or vendors.



Workshop Structure

Pre-requisites:

- Tenancy has a compartment in which participants can perform all steps
- All policies for the participants in the assigned compartment are in place:
 - o OCI Data Science
 - o OCI Speech
 - o OCI Language
- A <u>dynamic group</u> for OCI Data Science (Notebooks and Jobs) is in place.
- Participant can create an Autonomous Database in assigned compartment
- Participant and OCI Data Science (dynamic group) can access Object Storage

Lab 1.

- Log-in Oracle Cloud
- Create an Autonomous Database and download the Wallet
- Create API Key and download config and private key
- Create a Log Group
- Create an Object Storage Bucket

Lab 2.

- Create OCI Data Science Notebook Session
- Pull Github Repo
- Open first Jupyter Notebook and follow steps in the notebook:
 - o Create a custom conda environment
 - o Optional. Adjust Pytube Python package
 - Publish custom conda environment to Object Storage

Lab 3.

- Open second Jupyter Notebook and follow steps in the notebook:
 - Upload Config and Private Key files
 - Upload Autonomous Database Wallet
 - Change parameters in Main.py
 - Add Log Group OCID
 - Define Custom Conda Environment
 - o Run Notebook (ie., create a Job and run a Job)
- Get Job OCID, Project OCID, and Compartment OCID

Lab 4.

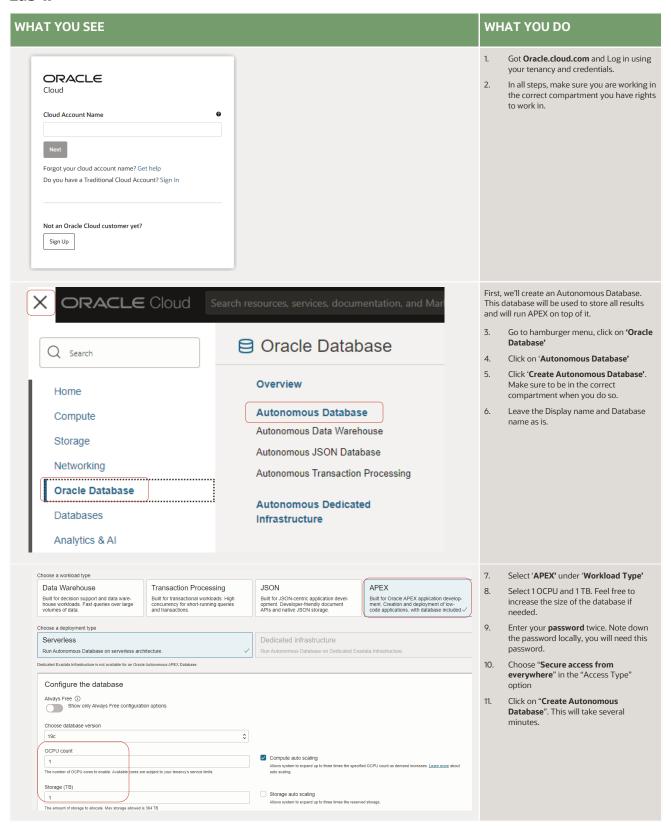
- Open APEX and create a Workspace
- Importing pre-built application
- Managing credentials (API Key)
- Configuring the Data Sources (Project OCID, Job OCID, Compartment OCID)

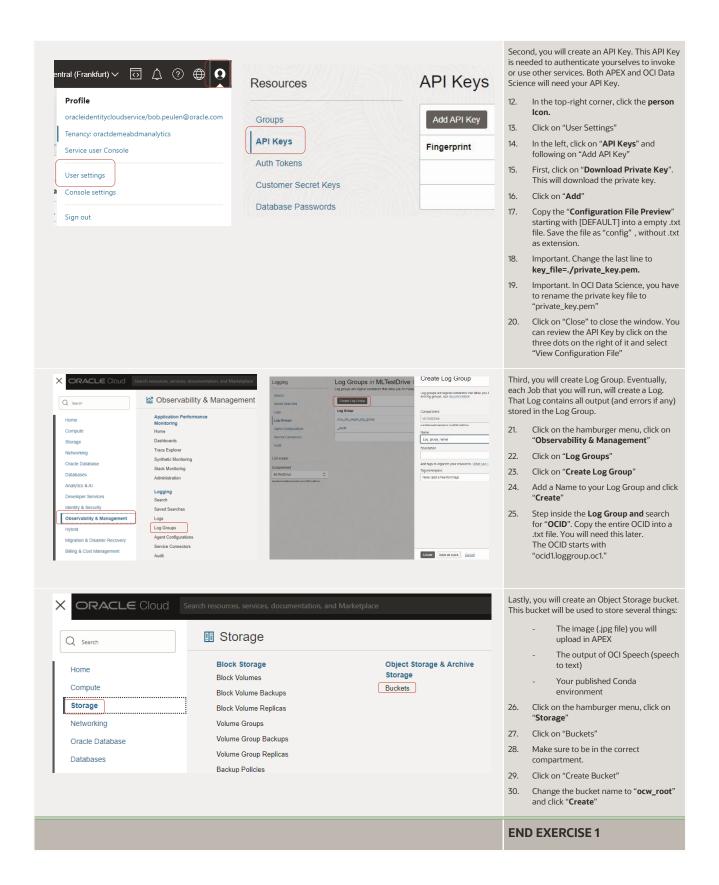
Lab 5.

- Start analysis on Video, Audio, or Both
- Optional: enhancing the APEX application

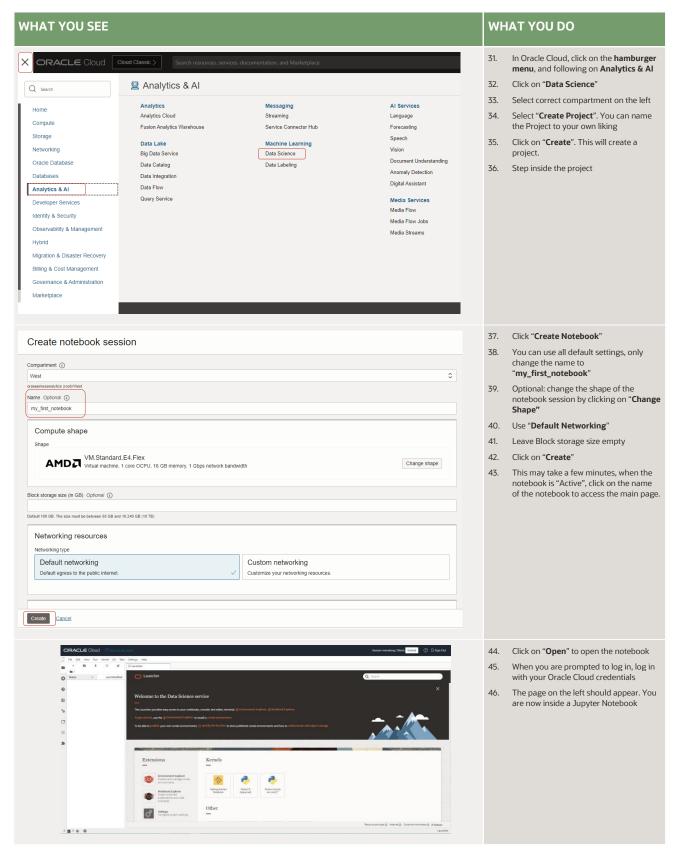
HANDS-ON

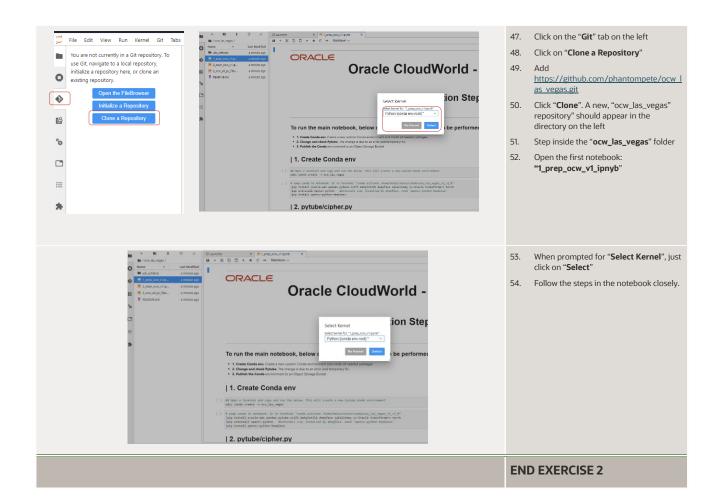
Lab 1.



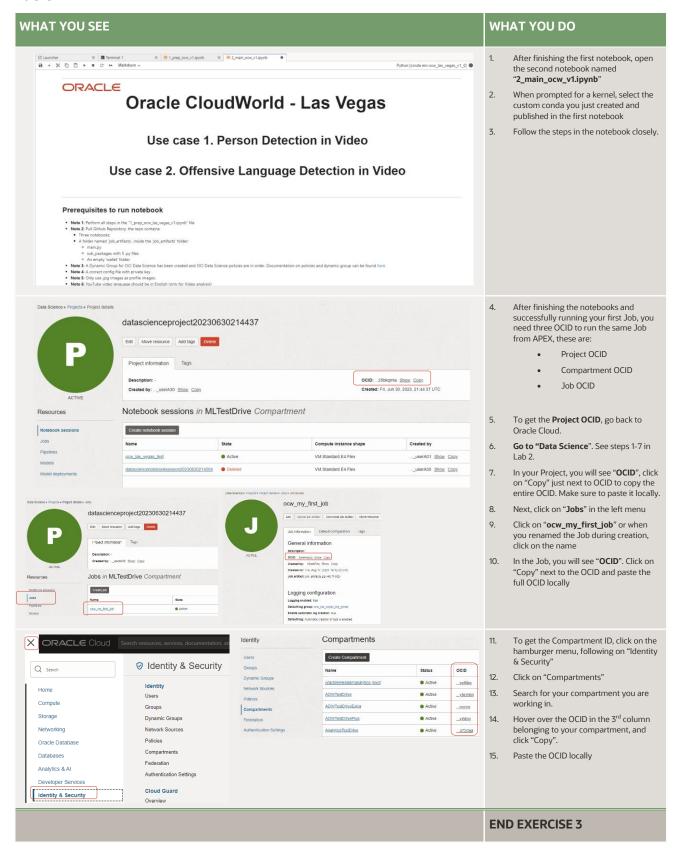


Lab 2.

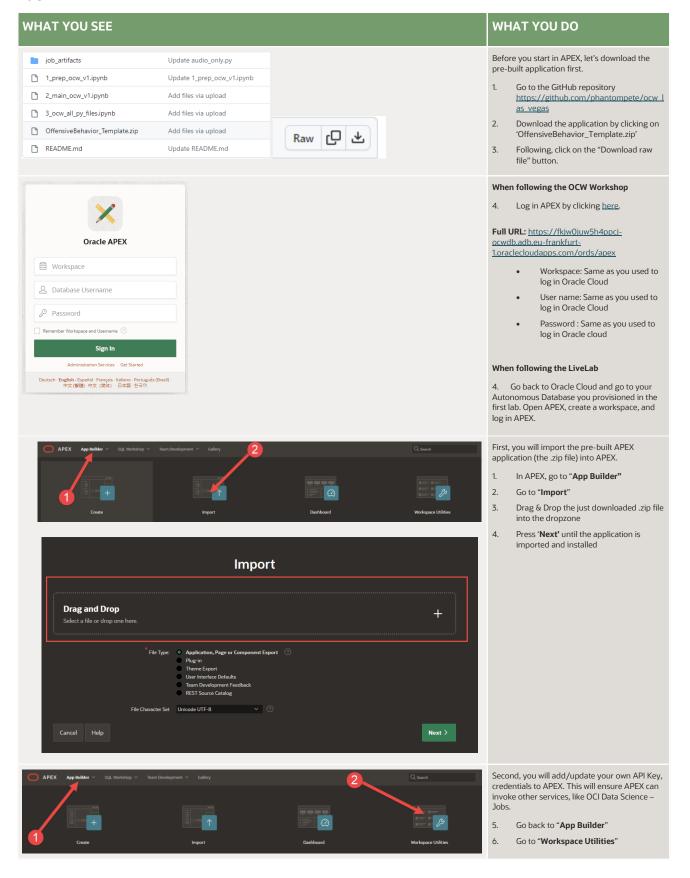


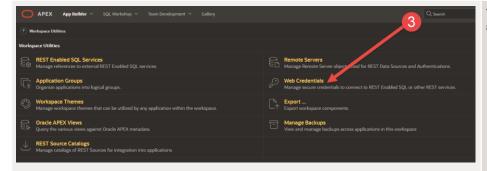


Lab 3.

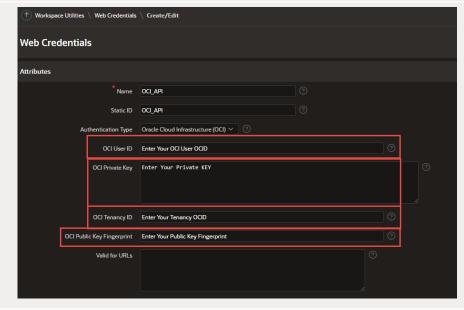


Lab 4.



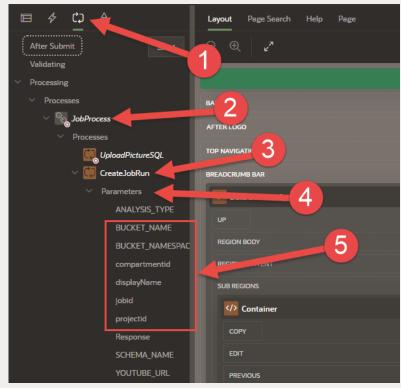


- 7. Go to "Web Credentials"
- . Select "OCI_API" from the list



- 9. Enter the **credentials** from the created API key as required, these are:
 - User OCID
 - Full Private Key
 - Tenancy OCID
 - Public Key Fingerprint
- 0. Press 'Apply Changes'

Note: Whenever you make a change the OCI Private Key needs to be re-added.

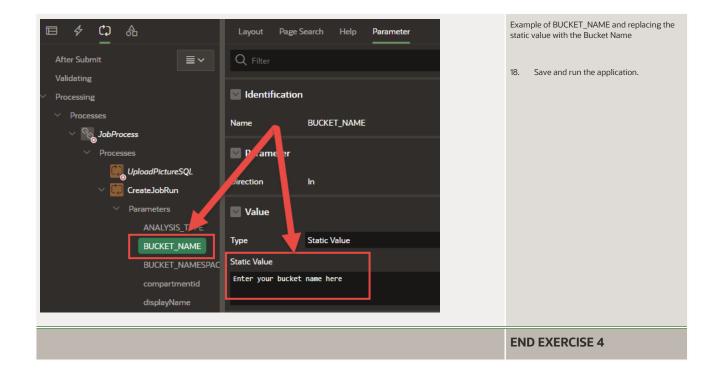


Third, you will configure the data sources. These are used e.g., when you upload a .jpg file to a bucket.

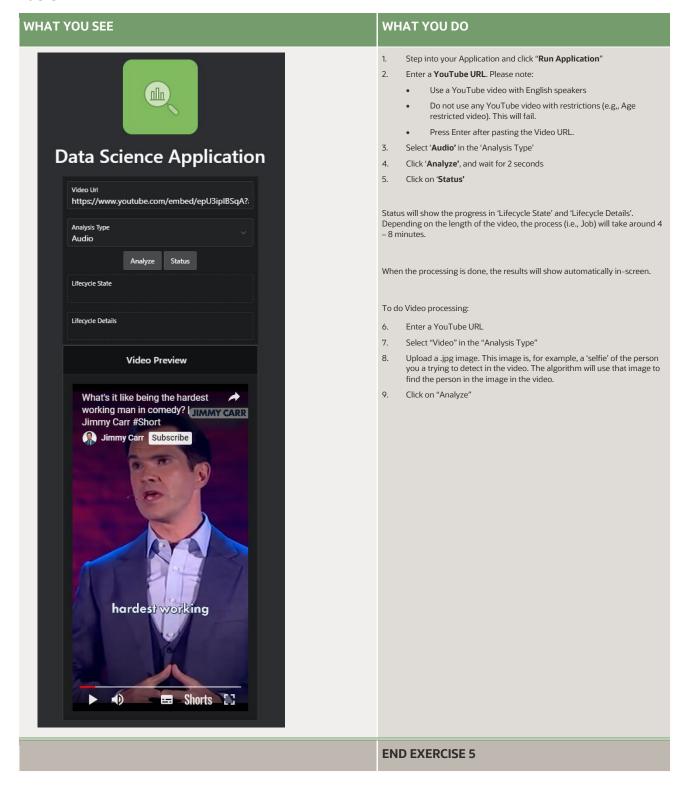
- 11. Step into your Application
- 12. Open Page 1 (Home)
- 13. Navigate to the **Processing Tab**
- 14. Expand JobProcess
- 15. Expand CreateJobRun
- 16. Expand Parameters
- 17. Configure the Parameters as required. These are:
 - **BUCKET_NAME**. This your Object Storage Bucket Name
 - **BUCKET_NAMESPACE:.** This is the namespace of Object Storage
 - Compartmentid. This is the Compartment OCID
 - **Jobid**. This is the Job OCID
 - Projected. This is the Project OCID

Search for the "Static Value" box. You will see (e.g., for Bucket name) "Enter your bucket name here"

Compartment OCID, Job OCID, and Project OCID can be found using Lab 3.



Lab 5.



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