

# ADB App Store Installation Guide

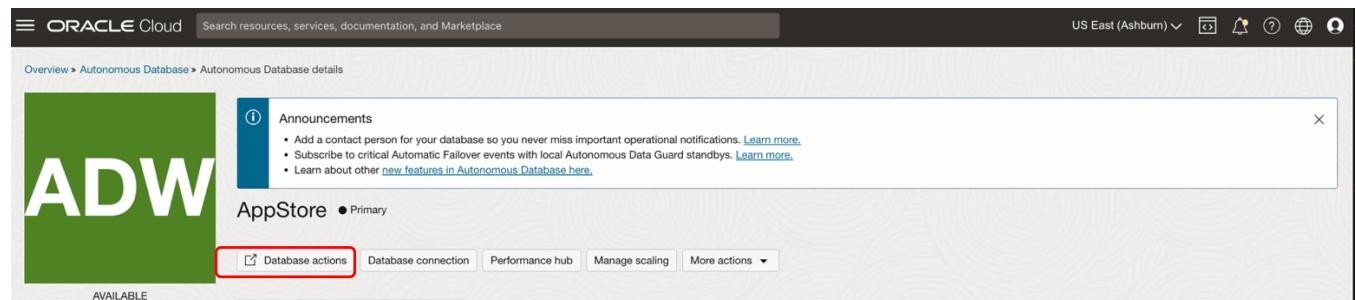
## Prerequisites

1. A new default database user "**ADB\_APP\_STORE**" now exists in all Autonomous Database Serverless (ADBS) databases. The **ADB\_APP\_STORE** user has the necessary privileges to install other ADBS curated applications.
2. Required GRANT statements documented on page 4 are executed for the **ADB\_APP\_STORE** user.
3. A new APEX workspace named "**ADB\_APP\_STORE**" must be created in your APEX environment. Please login as the admin user in your APEX environment and follow the steps mentioned below to create the **ADB\_APP\_STORE** workspace.
4. Download the **ADB\_APP\_STORE\_Install.sql** installation code from <https://github.com/oracle-samples/adbs-tools>
5. The user executing the **ADB\_APP\_STORE** installation must have the database ADMIN credentials.

**NOTE:** You can create a new ADBS database or use an existing ADBS database to install and deploy the ADB App Store. The recommended installation schema is the default **ADB\_APP\_STORE**. Supplemental instructions for using a different user are documented in the appendix. In each case, you will need to create the **ADB\_APP\_STORE** APEX Workspace as described below.

## Create the **ADB\_APP\_STORE** APEX Workspace

Navigate on the OCI console to the **Database Actions** Launchpad and under the Administration category click on the APEX Workspaces card and log in using your database admin credentials.



From the OCI Autonomous Database details dashboard for your database select the Database actions button.

**☰ ORACLE Database Actions | Launchpad**

An interface for DBMS\_SCHEDULER that enable...

Oracle Machine Learning provides several components accessible...

**✖ APEX**

Login to APEX, develop and run rich, low-code web applications.

**○ GRAPH STUDIO**

Graph Studio automates the creation of knowledge (RDF) an...

**Administration**

**✖ DATABASE USERS**  
REST enable schemas, change passwords, assign storage quot...

**✖ APEX WORKSPACES**  
Create and delete APEX workspaces, view the list of...

**↑↓ DATA PUMP**  
View Data Pump jobs and use our wizard to quickly create and run...

**○ DOWNLOAD CLIENT CREDENTIALS (WALLET)**  
Connections to Autonomous Database use a secure...

**○ SET RESOURCE MANAGEMENT RULES**  
Set resource management rules to allocate CPU/I/O shares to...

**Downloads**

**○ DOWNLOAD ORACLE INSTANT CLIENT**  
This is a free, light-weight set of tools, libraries and SDKs for...

**○ DOWNLOAD MICROSOFT EXCEL/GOOGLE SHEETS ADD-IN**  
These add-in's enable you to retrieve and analyze data from...

**○ DOWNLOAD SODA DRIVERS**  
Simple Oracle Document Access (SODA) is a set of APIs for using...

When the page loads, find and select in the Administration options APEX Workspaces.

**☰ ORACLE Database Actions | APEX Workspaces**

**APEX Workspaces**

Search by Workspace name, ...  Sort by

Page Size: 20  <input type="button" value="

The screenshot shows the Oracle Database Actions APEX Workspaces interface. On the left, there's a list of workspaces with a search bar and sort options. On the right, a modal window titled "Create Workspace" is open. It contains fields for workspace name (set to "ADB\_APP\_STORE"), database user (schema), schema password, confirm schema password, apex administrator (username set to "ADB\_APP\_STORE"), workspace password, confirm workspace password, and email (set to "MYEMAIL@CORP.COM"). At the bottom of the modal are "Create" and "Cancel" buttons, with "Create" being highlighted by a red box.

An interview form – Create Workspace – will appear. Please populate the page as described above where Workspace name is ADB\_APP\_STORE, Database user (schema) is the default ADB\_APP\_STORE user and the APEX username is ADB\_APP\_STORE. Provide a secure Workspace password and a contact email to complete the form. Click Create to create the ADB\_APP\_STORE workspace.

The screenshot shows the Oracle Database Actions APEX Workspaces interface after a workspace has been created. The workspace "ADB\_APP\_STORE" is listed in the main workspace list. It shows a display name of "ADB\_APP\_STORE", 0 applications, 1 developer, and 1 administrator. Below the workspace list is a URL: ".../ords/f?p=4550:1::::F4550\_P1\_COMPANY:ADB\_APP\_STORE".

When the ADB\_APP\_STORE is created you should see the above APEX Workspace listed.

**NOTE:** At this point, in a separate SQL session log in as the database ADMIN and please execute the following:

```
alter user ADB_APP_STORE_ACCOUNT unlock;
alter user ADB_APP_STORE identified by <create password>; -- you
need to change the ADB_APP_STORE password
-- issue the following grants
grant create procedure to ADB_ADMIN_STORE;
grant create table to ADB_ADMIN_STORE;
grant create trigger to ADB_ADMIN_STORE;
grant create view to ADB_ADMIN_STORE;
```

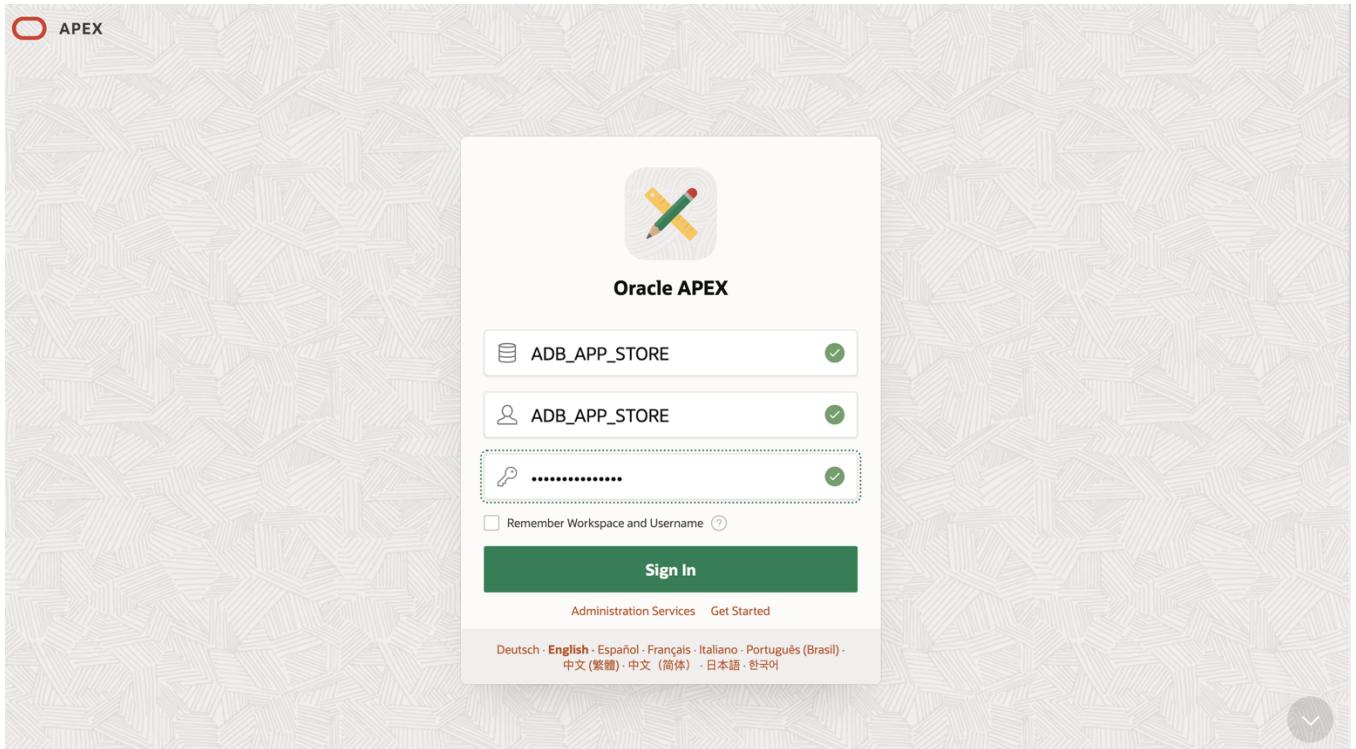
If you are not using the default ADB\_APP\_STORE user, please be sure the designated database user has the above privileges.

Once the above SQL has executed successfully return to the APEX Workspace dashboard and launch the ADB\_APP\_STORE workspace:

The screenshot shows the Oracle Database Actions | APEX Workspaces interface. The ADB\_APP\_STORE workspace card is highlighted with a red box around its lower right corner, which contains two icons: a magnifying glass and a square. The card displays the following information:

- Display name: ADB\_APP\_STORE
- Applications: 0
- Developers: 1
- Administrators: 1
- URL: .../ords/f?p=4550:1::::F4550\_P1\_COMPANY:ADB\_APP\_STORE

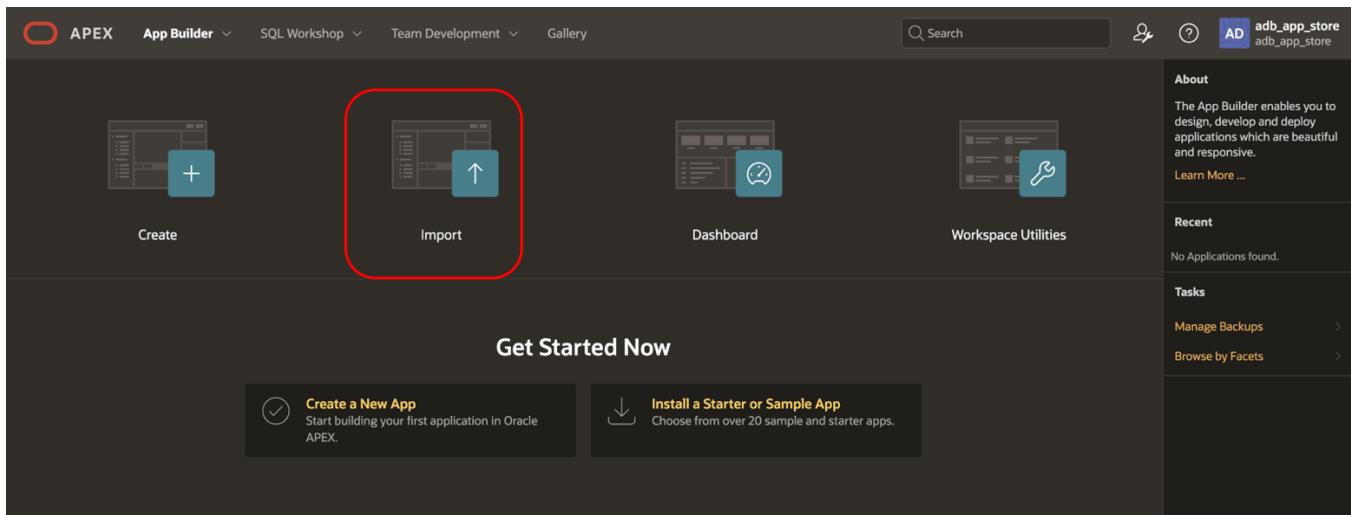
In the ADB\_APP\_STORE workspace card described above, click on the expansion icon in the lower right corner of the workspace card to launch the workspace.



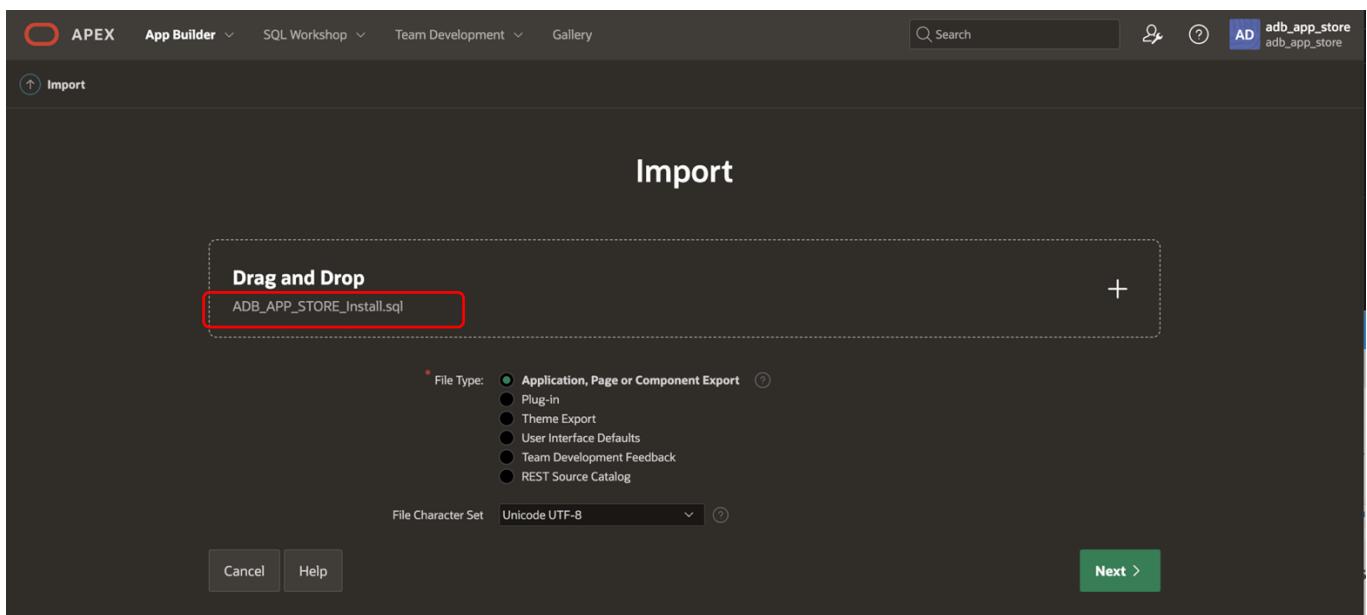
The log in page for the workspace should appear. Populate the fields as described here, Workspace is ADB\_APP\_STORE, the workspace username is ADB\_APP\_STORE and the provide the workspace password you entered in the interview form to create the workspace.

The ADB\_APP\_STORE workspace will launch. You should confirm that you are connected as the ADB\_APP\_STORE user. At this point we will create the

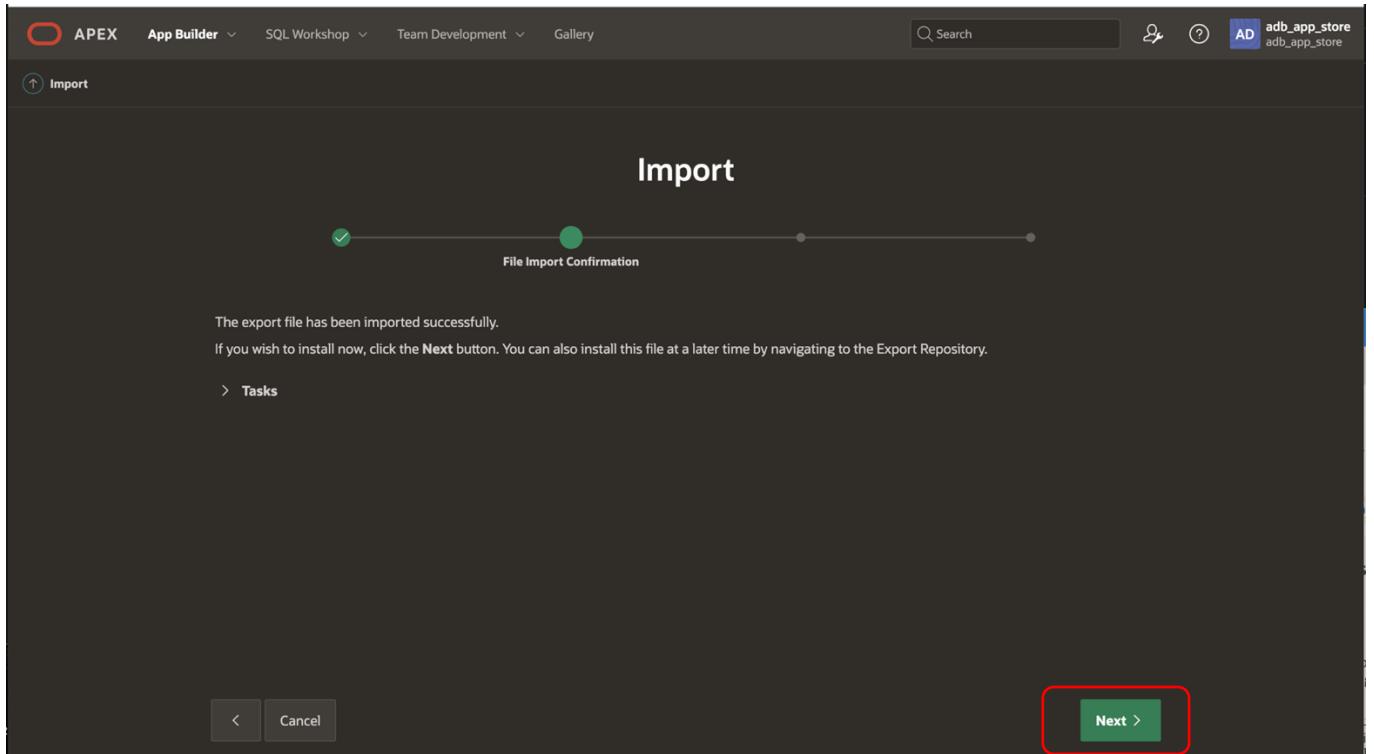
ADB\_APP\_STORE APEX application by importing the supporting objects. The first step is to click on the App Builder button as highlighted in red above.



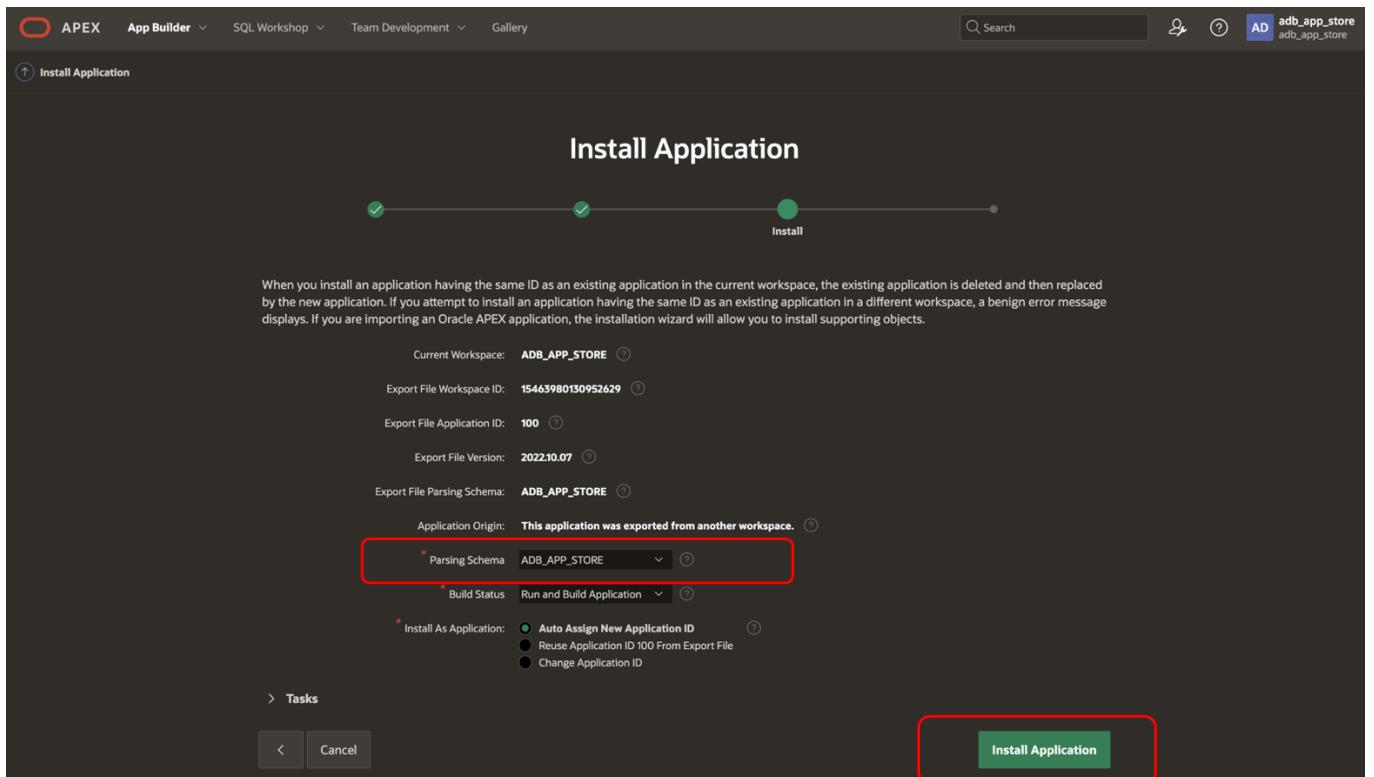
In the App Builder dashboard click on Import.



Import will prompt you for the ADB\_APP\_STORE\_Install.sql code you retrieved from the adbs-tools GitHub Repository - <https://github.com/oracle-samples/adbs-tools>. Click on the Drag and Drop + and a navigation window will open for you to select the .sql code file.

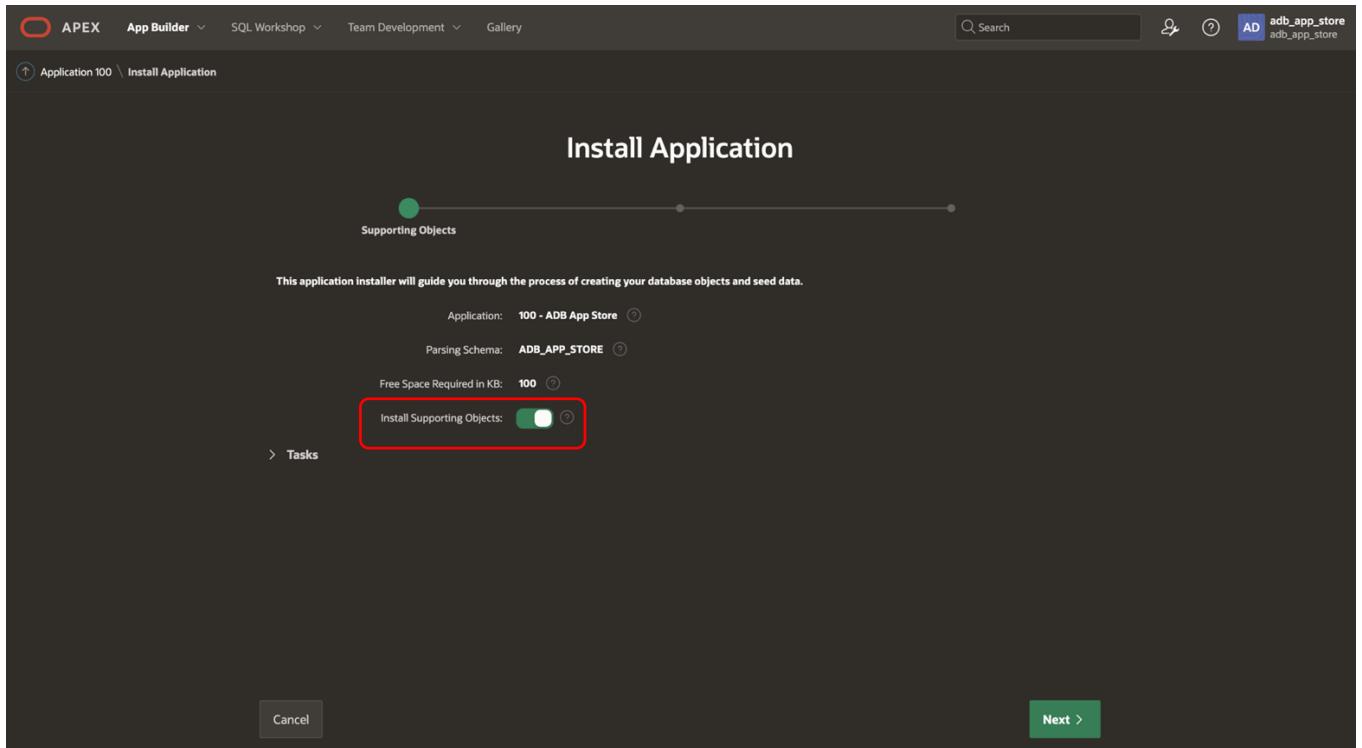


Once you have a successful import confirmation click Next to continue with the installation.

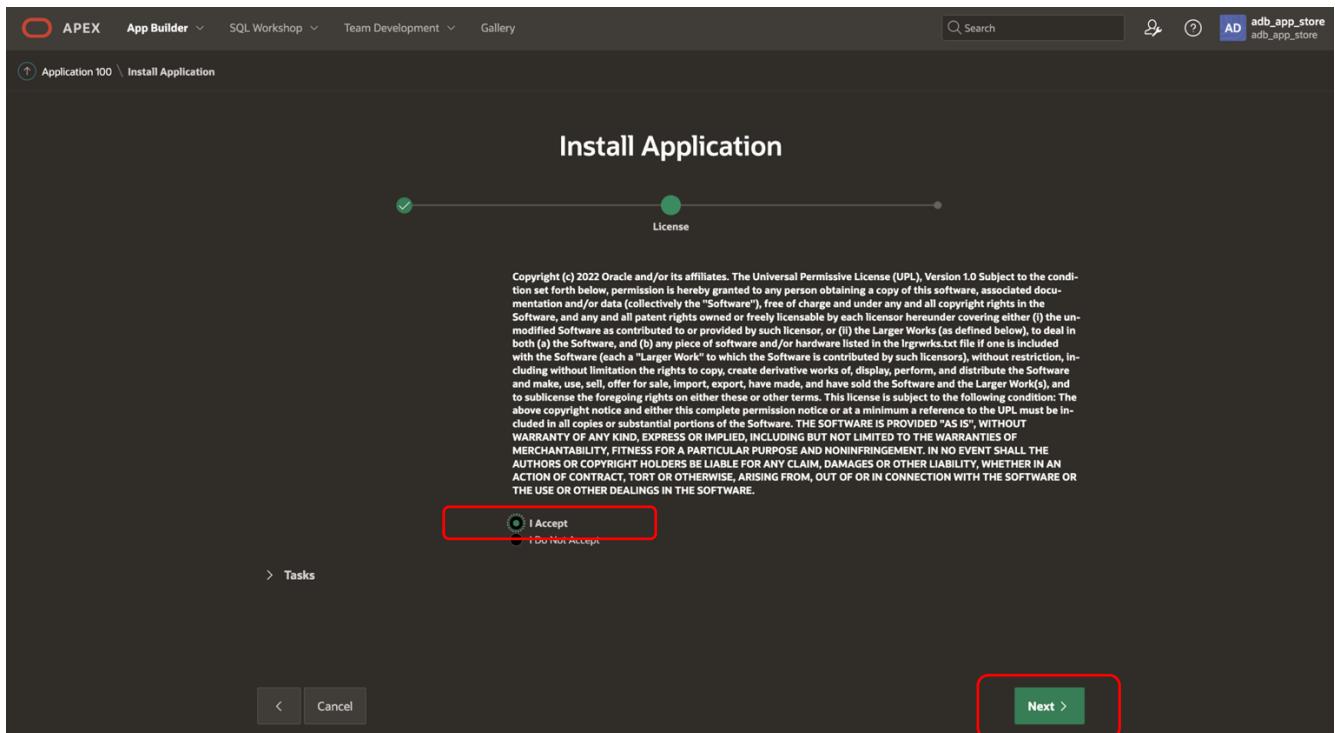


An installation confirmation page will appear with details related to the proposed application installation. Confirm the settings and click Install Application.

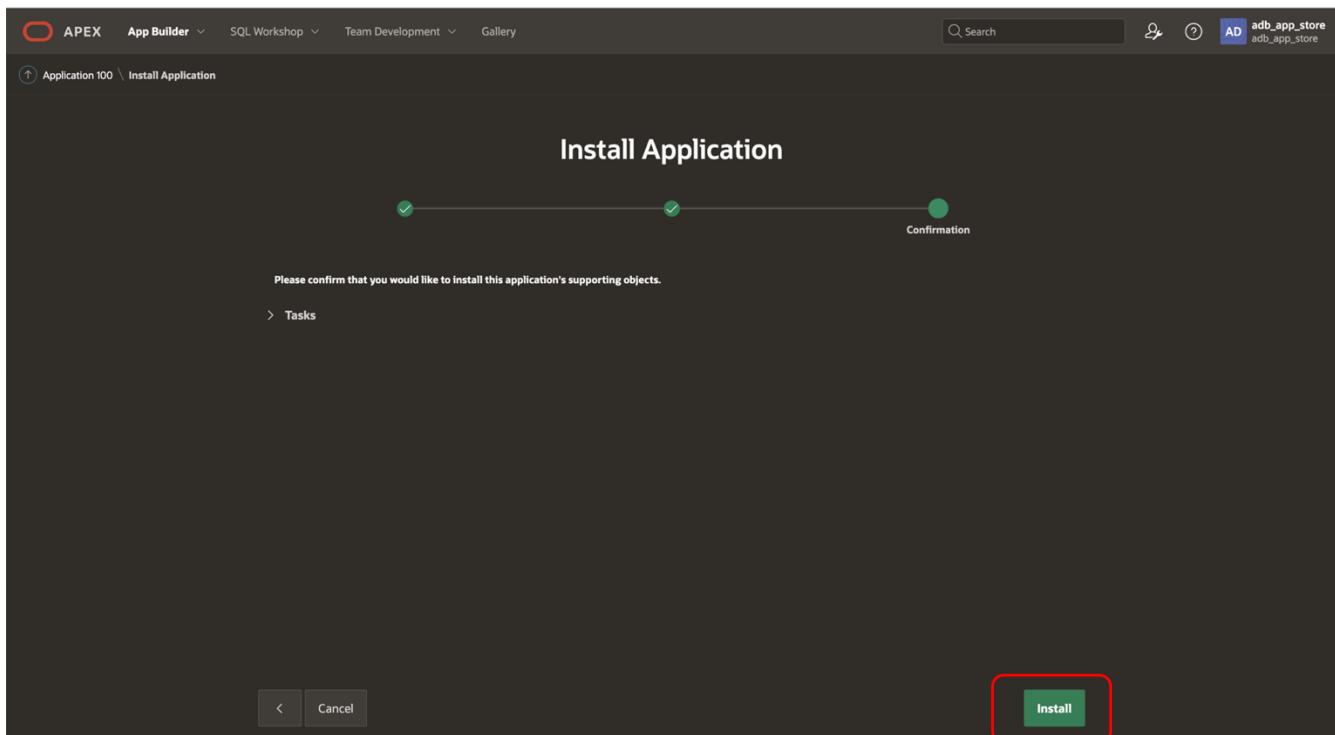
**NOTE:** the Parsing Schema must be ADB\_APP\_STORE whether you are using the default ADB\_APP\_STORE or you have decided to install the ADB App Store as a different database user. A different parsing schema will result in run time failure.



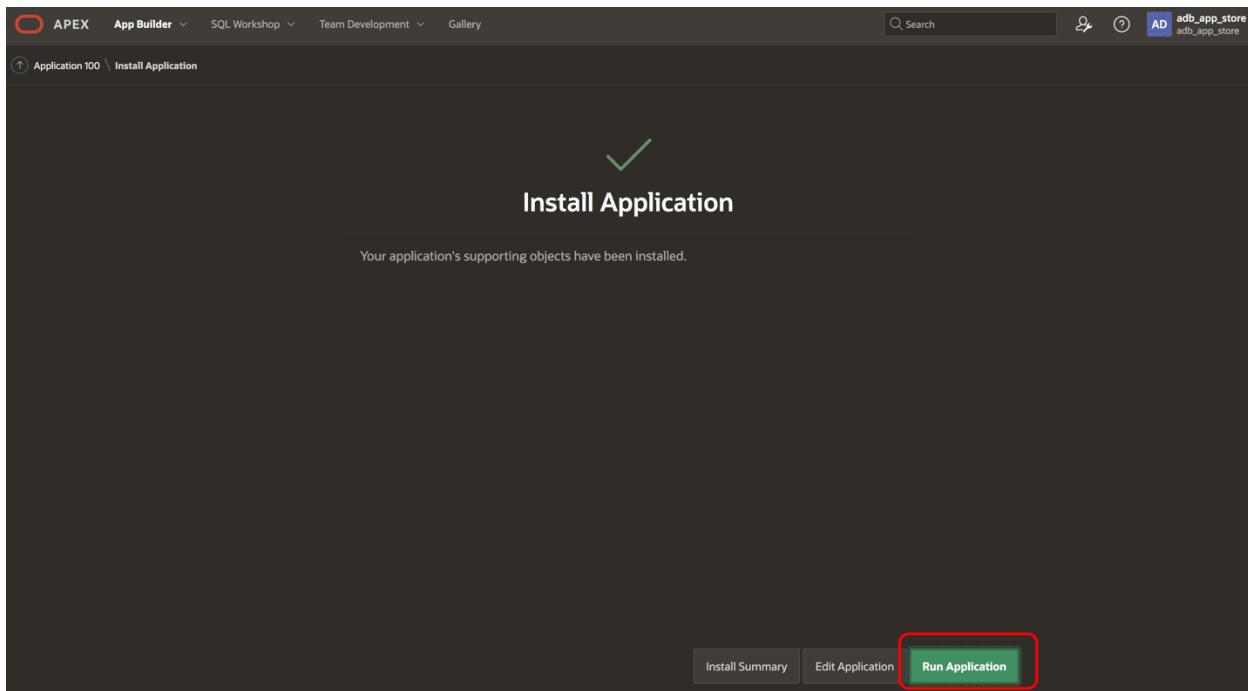
The application installation will install the supporting objects. This is the default behavior but please confirm that the Install supporting objects radio button is enabled as described above.



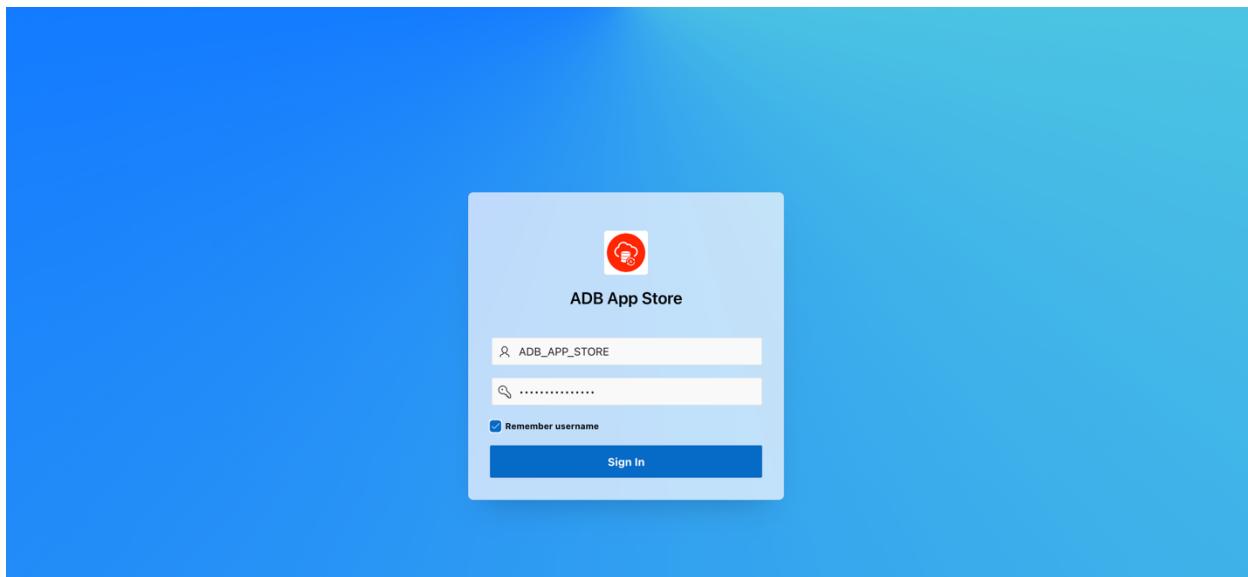
Please accept the Universal Permissive License (UPL) by selecting the radio button **I Accept** and then click **Next**



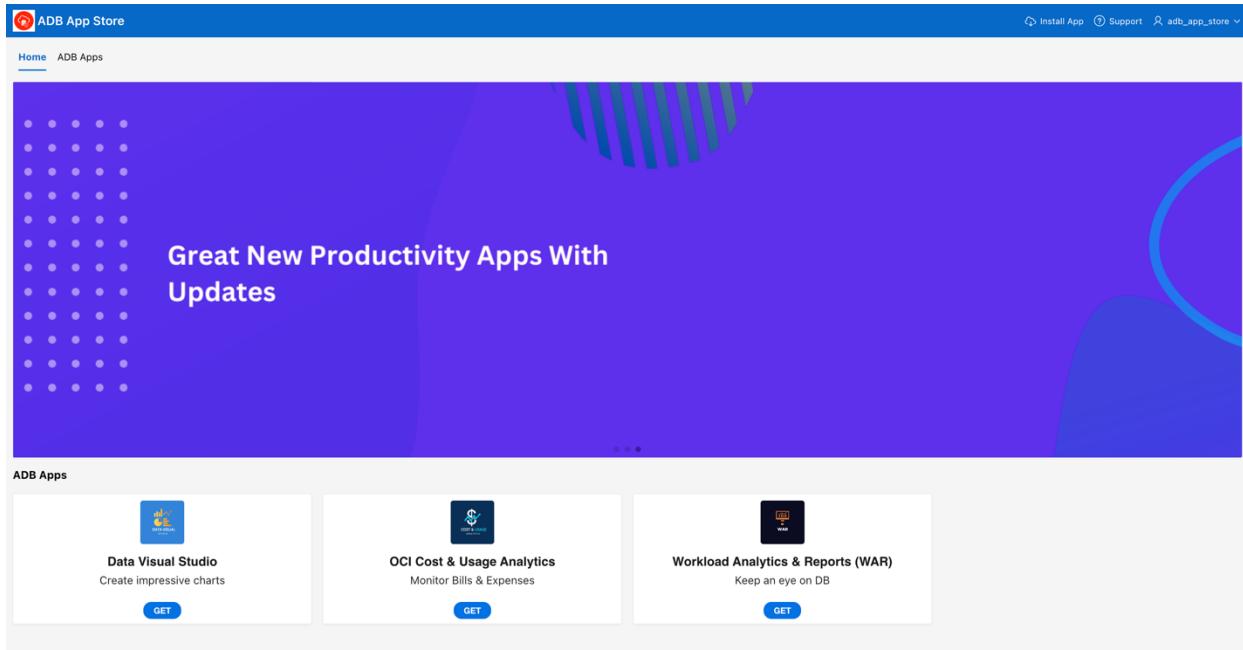
The final confirmation and click **Install**.



The above page indicates a successful installation. To run the ADB App Store click on the Run Application button.



The ADB App Store log in page will appear where you will enter the ADB\_APP\_STORE user and the database credentials for this user.



The ADB App Store catalog page of available applications will appear. This URL can be used for subsequent direct access to the ADB App Store.

**Appendix A** below describes the requirements necessary OCI dependent configuration for the OCI Cost & Usage Analytics application to access and user OCI resources. This will require OCI ADMIN privileges for your tenancy.

## APPENDIX

- A. When installing the OCI Cost and Usage Analytics application, you will need to enable resource principal for the admin user executing the following as the database admin user:

```
EXEC DBMS_CLOUD_ADMIN.ENABLE_RESOURCE_PRINCIPAL();
```

and configure the following dynamic groups and policies to access and use the OCI cost and usage data.

### Dynamic Group matching rules:

#### Matching Rules:

```
# Instances that meet the criteria defined by any of these rules will  
be included in the dynamic group.  
resource.type='autonomousdatabase'  
resource.id = 'ocid1.autonomousdatabase.X.X.X'  
resource.compartment.id='ocid1.compartment.oc1..X'
```

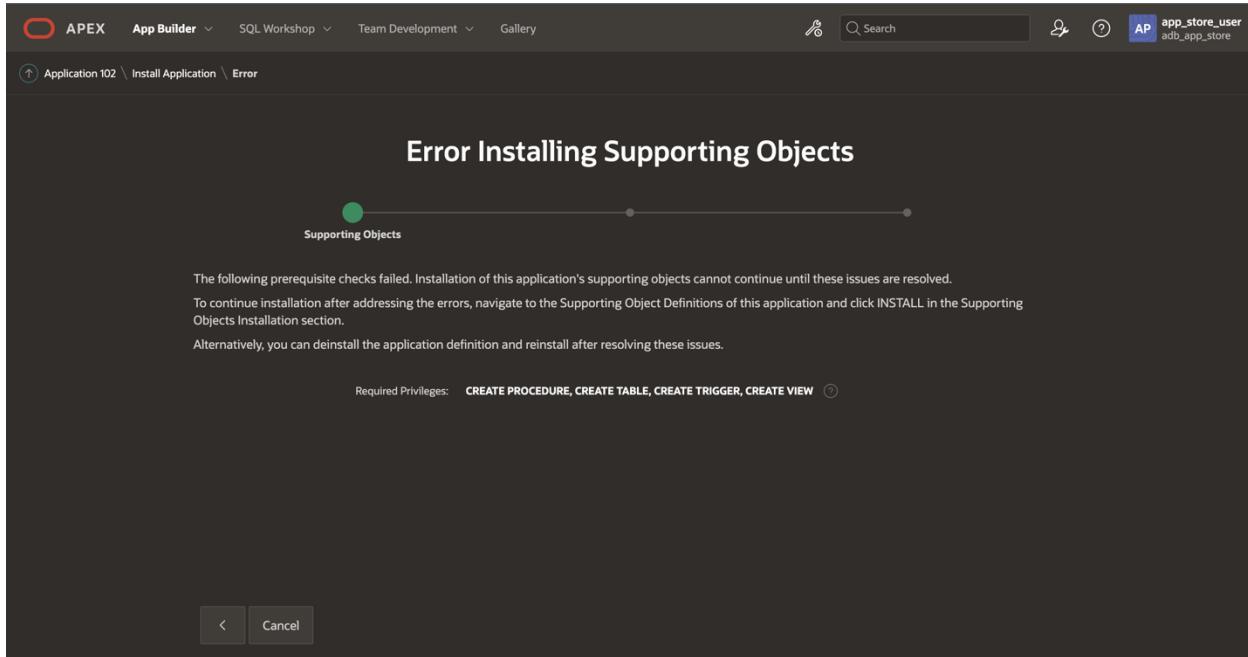
### OCI Policies:

```
Define tenancy usage-report as  
ocid1.tenancy.oc1..aaaaaaaaan4fkpkisbwjlr56u7cj63lf3wffbilvqknstgtvzub  
7vhqkggg  
# the above tenancy OCID is required and should not be changed  
Endorse dynamic-group <group_name> to read objects in tenancy usage-  
report  
Allow dynamic-group <group_name> to use buckets in tenancy  
Allow dynamic-group <group_name> to use objects in tenancy  
Allow dynamic-group <group_name> to use metrics in tenancy  
Allow dynamic-group <group_name> to use load-balancers in tenancy  
Allow dynamic-group <group_name> to use instance-family in tenancy  
Allow dynamic-group <group_name> to use file-family in tenancy  
Allow dynamic-group <group_name> to use volume-family in tenancy  
Allow dynamic-group <group_name> to use database-family in tenancy  
Allow dynamic-group <group> to use autonomous-database-family in  
tenancy
```

- B. The following ADB\_APP\_STORE application installation error indicates that the prerequisite grants were not executed for the designated user. Execute the grants as the ADMIN user to the ADB\_APP\_STORE user (or the non-default designated user) and proceed with the next steps.

```
grant CREATE PROCEDURE to ADB_APP_STORE;  
grant CREATE TABLE to ADB_APP_STORE;  
grant CREATE TRIGGER to ADB_APP_STORE;  
grant CREATE VIEW to ADB_APP_STORE;
```

Once the grants are given, click on cancel and go to previous page and click Next again. This will redirect to Install Application page.



- C. Execution of the back-end queries related to the ADB App Store execution are executed as the privileged user ADB\_APP\_STORE. For this reason, we strongly suggest you use this user for the ADB\_APP\_STORE workspace and application ownership. If you decide on using a different user for the ADB\_APP\_STORE workspace, this user's default schema must be the ADB\_APP\_STORE schema as defined in the APEX Workspace user attributes Account Privileges. This user must also have User is Administrator enable (Yes). You will need to confirm the Parsing Schema is correctly configured to ADB\_APP\_STORE during the Application Installation workflow.