Workload Analytics & Reports (WAR)

Steps to Setup APEX Workspace and Install WAR App

STEP 1: [Login to the SQL Developer Web](#) and create a new database user and Grant the following privileges. (OCI Console →Autonomous Database → Select your Database → Tools → SQL Developer Web →SQL)
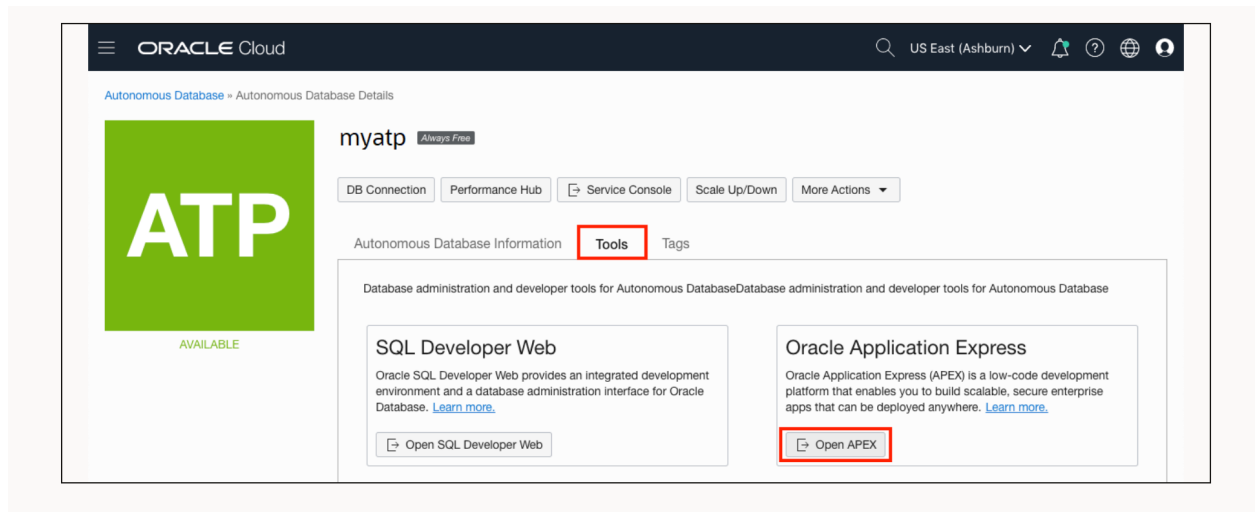
```
-- please replace XXXXXXX with secure password


CREATE USER WAR_USER identified by XXXXXXXX;


GRANT execute on dbms_workload_repository to WAR_USER;
GRANT execute on dbms_perf to WAR_USER;
GRANT select_catalog_role to WAR_USER;
```

NOTE: It's advised to create a new user/schema to install this app. All the required supporting objects can be created under this new user. WAR_USER is a recommended APEX user schema.

STEP 2: Login to the APEX Administration Services (OCI Console →Autonomous Database →
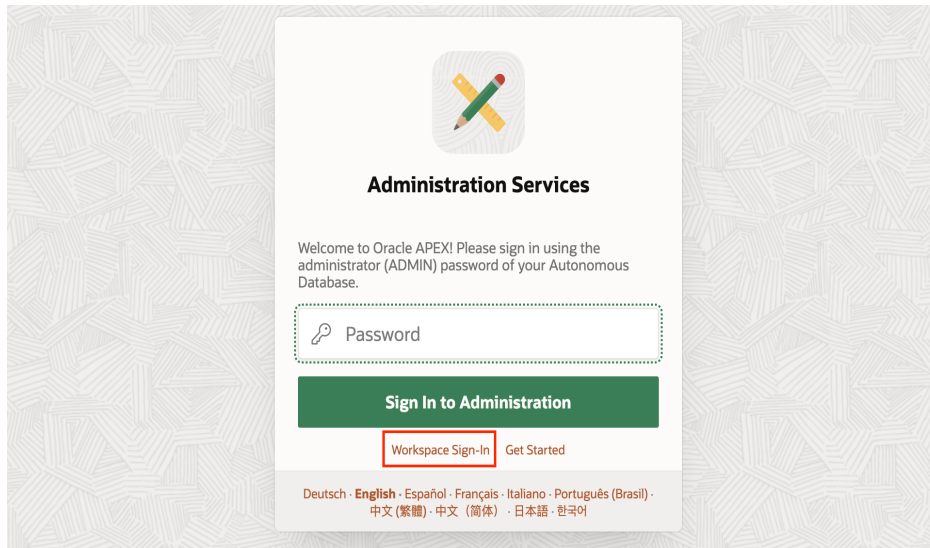Select your Database → Tools → Open Apex)

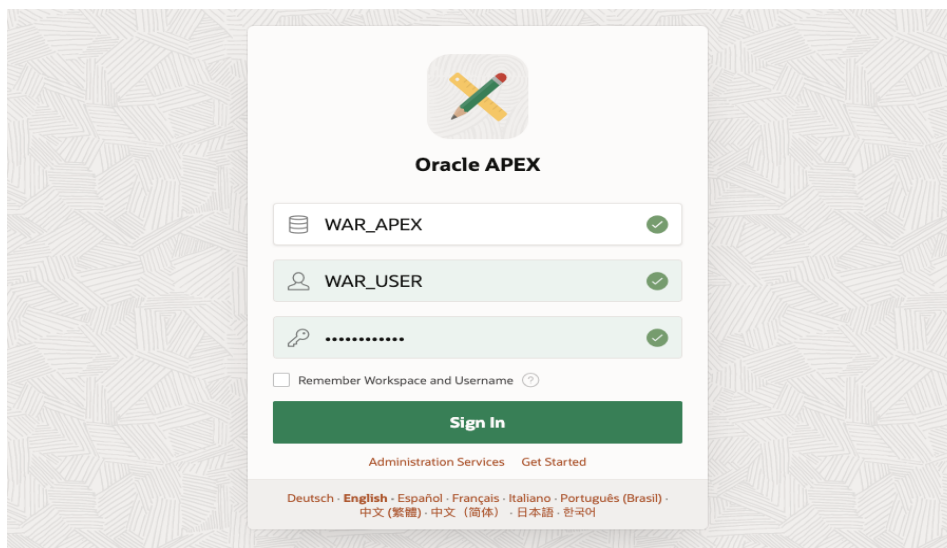STEP 2.1: Create a new apex workspace

Notes:
- Please select "Existing Schema" option while creating a new workspace.
- Use the database user/schema (WAR_USER) created in step 1 to the new workspace
  created here.

STEP 3: Login to the APEX Workspace (OCI Console →Autonomous Database → Select your Database → Tools → Open Apex → Workspace Sign-In**)**

- Provide the Workspace Name, Username and the Password then click "Sign In" (Details provided in STEP 2)

STEP 4: Import the f101.sql file into your APEX workspace.

- Navigate to the App Builder → Import
- Drag and drop the application .sql file and click Next.
- Leave the defaults as they are, then continue through the remaining steps in the wizard to finish installing the application.

Get Started with WAR:

Login Page: **Sign in to the application using the Username and Password created earlier**

Home Page: **Select the radio button to choose the specific AWR time period data and then click on the "Analyze" button**

This will be the Home page once you login. Here we mainly have two modes of operations
- **Single**: you can select any AWR time period and do your analysis (Select only one).
- **Compare**: Select one or two checkboxes if you would like to compare two periods of the workload from the same database or two workloads from different databases (Select up to two).

Dashboard Page: All the details of your selection will be shown show on this page. Select any component from Actions to analyze the data.

◯ **Workload Analytics & Reports (WAR)**   ⊙ war_user ⌄

Dashboard   [Change Database 🗄]

🗄✓

BHWK52XZDIGTZVP_WARAPPTEST(Linux x86 64-bit)
3167871415

VERSION	INSTANCES LIST	Begin Time	End Time
19.0.0.0.0	8	12/08/2022 03:00	12/09/2022 03:00

Begin Time defaulted to 24 hrs before End Time.

Actions

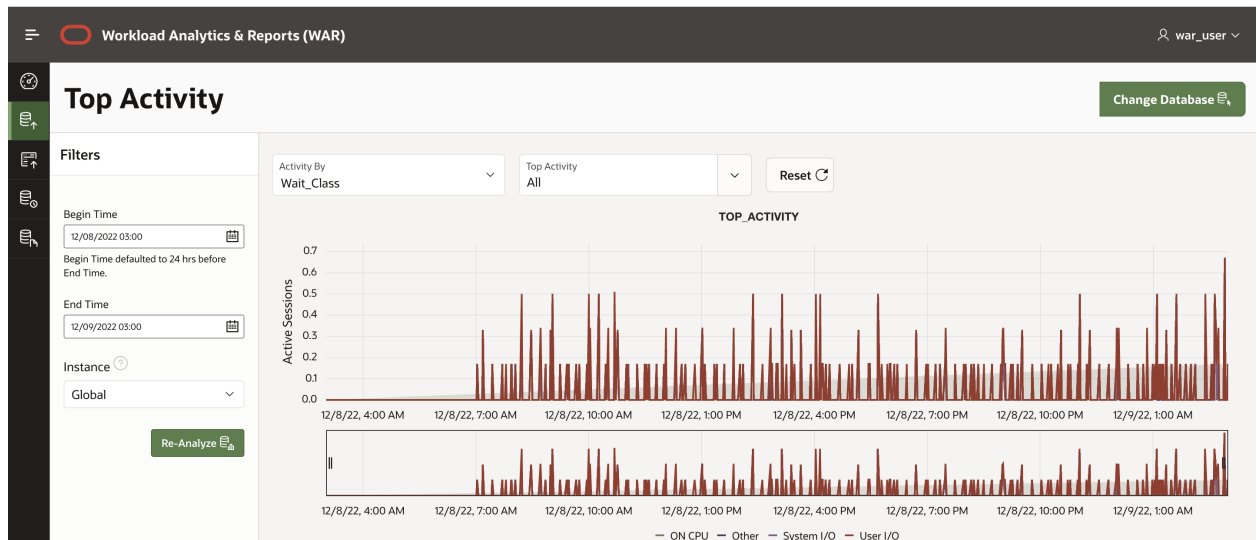|	
🗄↑ **Top Activity** Analyze the performance trend of the system including top SQL and top wait events.	📊 **Load Profile** Analyze historical system statistics information in DBA_HIST_SYSSTAT and DBA_HIST_SYS_TIME_MODEL.
🗄🕐 **Wait Events** Analyze the top 10 wait event charts. The wait events are sorted by total wait time.	🗄 **AWR Reports** Analyze the Automatic Workload Repository(AWR) reports.

Note: Begin Time is defaulted to 24 hrs before End Time.

Brief introduction about each component

Top Activity:

- **Top Activity Chart:** You can see the performance trend of the system from the Top Activity Chart (as known as ASH Chart).

- **Top SQL and Top Wait Events:** You can see top SQL and top wait events within the selected timeframe of the Activity chart view port. (Drag/Slide the overview section below the activity chart to see the specific top SQL and top wait events in that selected timeframe).
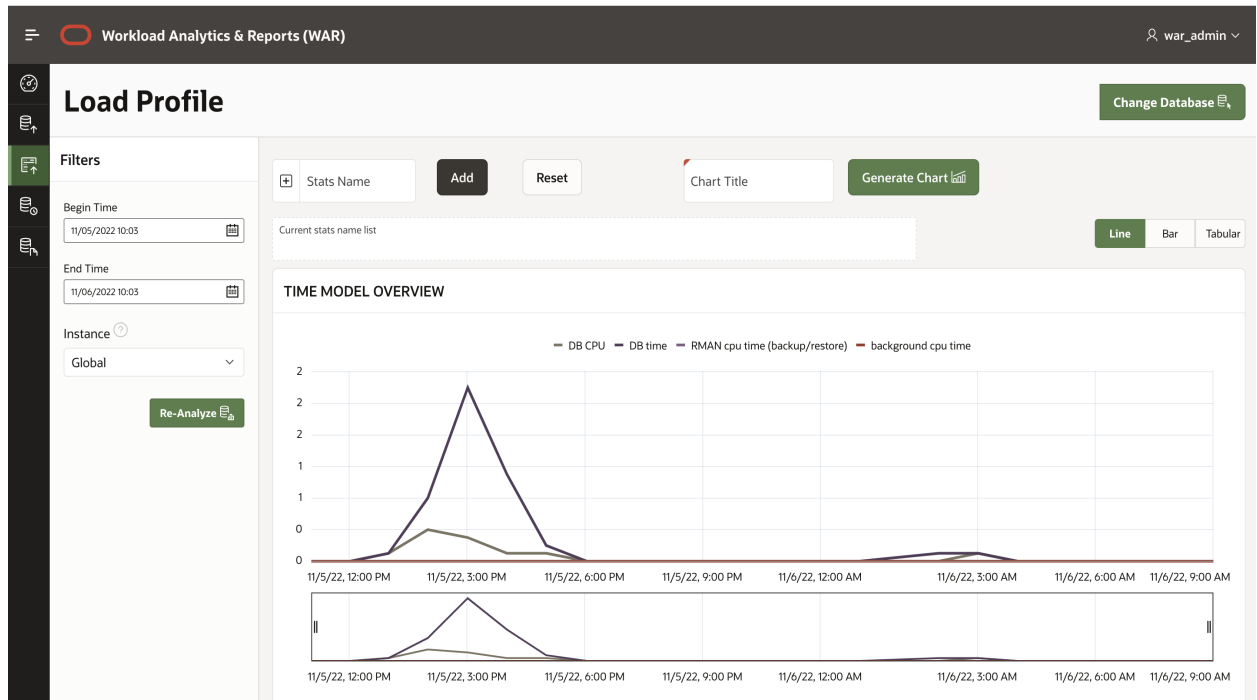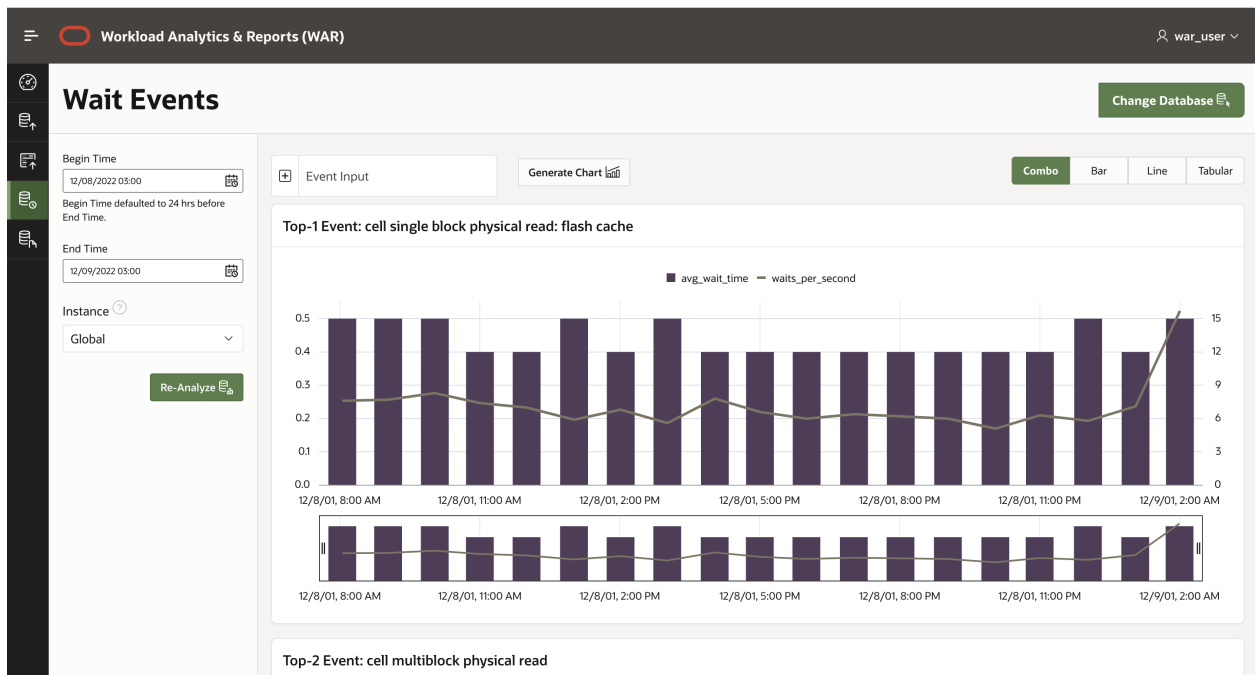
Load Profile:

- This page categorizes and displays historical system statistics information in DBA_HIST_SYSSTAT and DBA_HIST_SYS_TIME_MODEL
- You can also search for specific system statistics you want. Please refer to Statistics Descriptions for all the system statistics recorded.
- Multiple statistics can be added in the same customized chart, and you can also customize the chart title. Add each statistic one by one and then give the chart title finally click the "**Generate Chart**" button e.g., 'sorts (rows)','sorts (disk)'.

Wait Events:

- This tab shows the top 10 wait event charts. The wait events are sorted by total wait time.
- When you click on the bar of a specific snap period on the bar chart of a wait event, the wait event histogram information for this snap_id will be displayed.
- You can also search and generate a chart for a specific wait event. Please refer to descriptions for wait events to check detailed descriptions for those wait events of greatest interest.

AWR Reports:

- Select the begin and end snapshot id and click the "**Generate AWR**" button to get the AWR report.