

# Oracle Application Express

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# Что это такое?

- **Oracle Application Express** предназначен для создания приложений, ориентированных на базы данных.
- Предоставляет большой набор готовых компонент и шаблонов для создания приложений.

# Основные компоненты

- **SQL Workshop** – инструментарий для написания запросов и создания объектов базы данных.
- **Application Builder** – инструментарий для разработки приложений.
- **Utilities** – ряд утилит для мониторинга БД, просмотра метаданных.
- **Administration** – управление сессиями, мониторинг активности.

# Основные группы пользователей

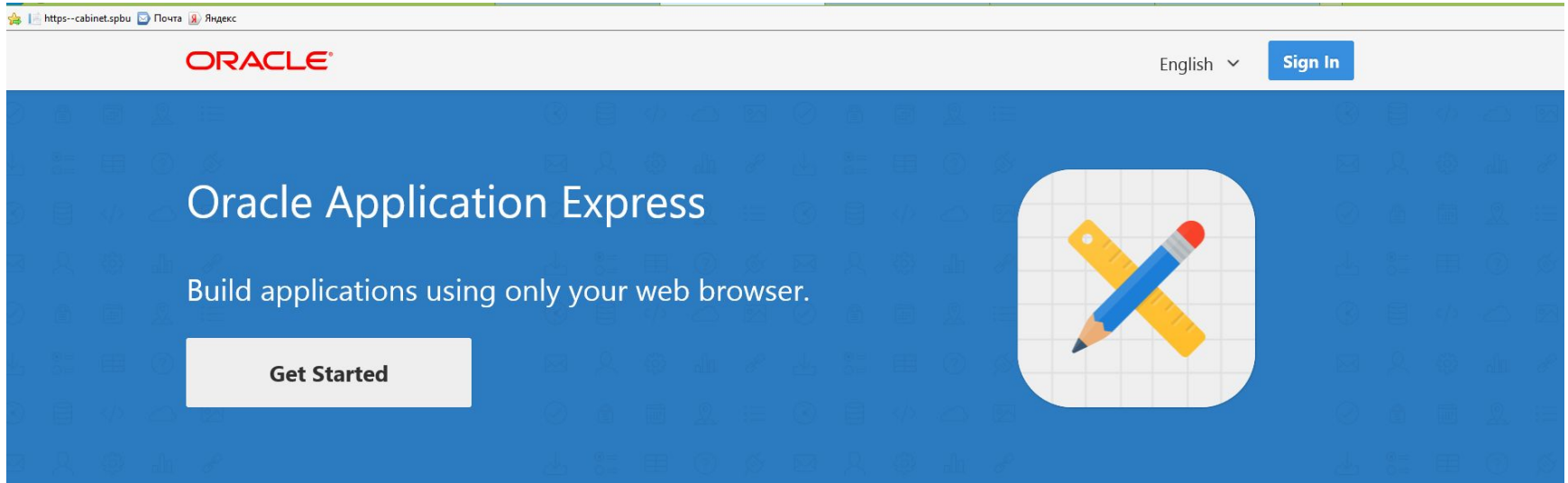
- **Developers** - разработчики приложений.
- **Workspace Administrators** – администраторы, выполняющие управление аккаунтами пользователей.
- **End Users** – конечные пользователи. Имеют пользовательский доступ к приложению. Не используют сторонние механизмы аутентификации.
- **Instance Administrators** – администраторы, управляющие экземпляром базы.

# Как получить доступ к ORACLE APEX?

- Установить ORACLE EXPRESS 11G на своем компьютере
- или
- Завести workspace и account в облаке по адресу:

**[apex.oracle.com](https://apex.oracle.com)**

# APEX.ORACLE.COM

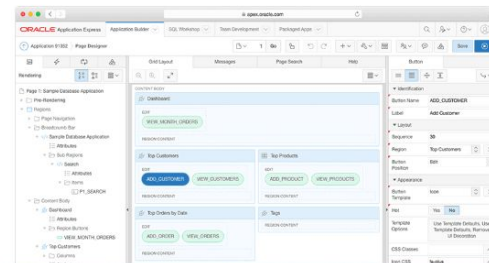


Oracle Application Express

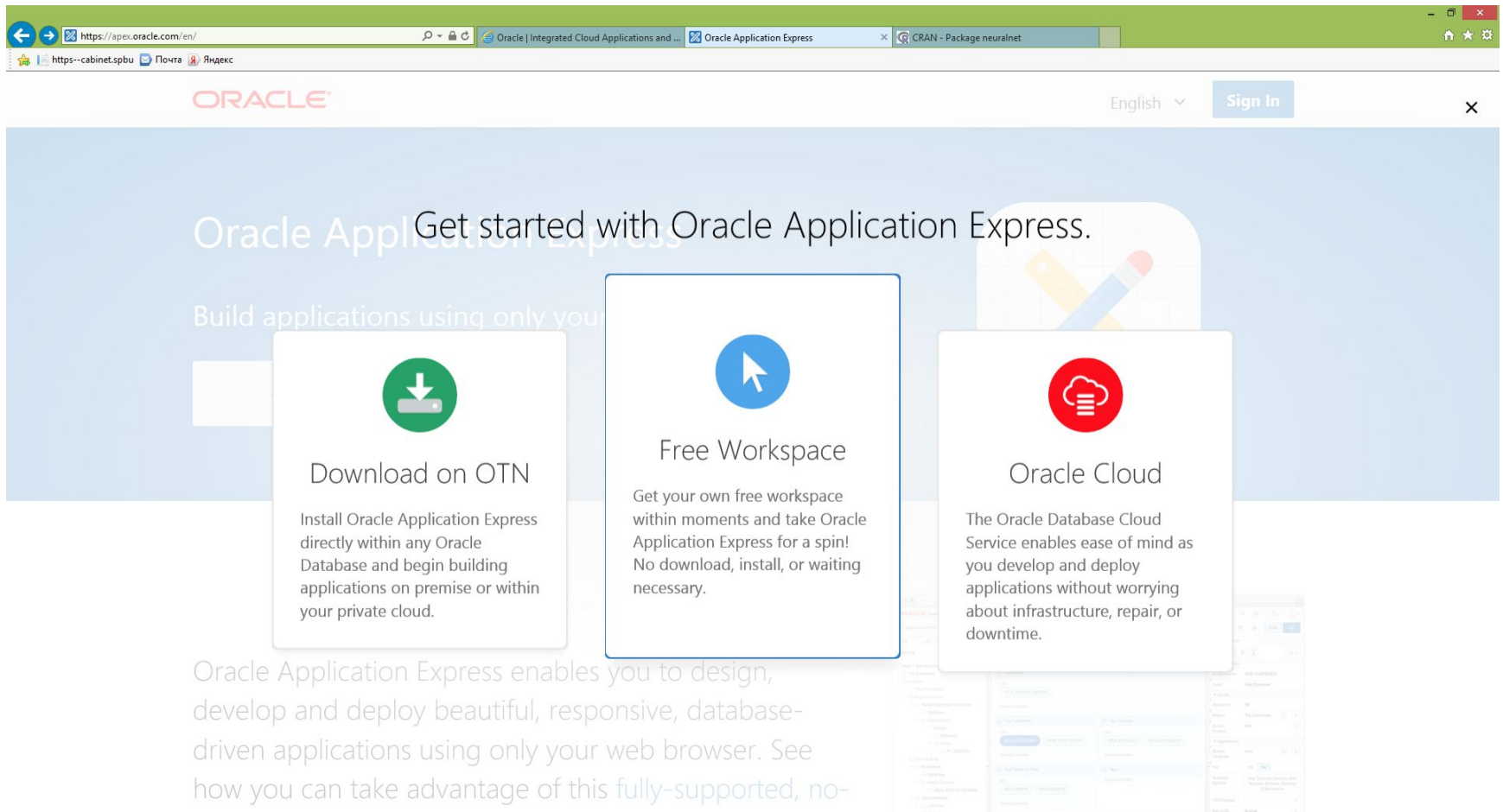
Build applications using only your web browser.

[Get Started](#)

Oracle Application Express enables you to design, develop and deploy beautiful, responsive, database-driven applications using only your web browser. See how you can take advantage of this [fully-supported, no-](#)



# Выбрать <Free Workspace>



The screenshot shows the Oracle Application Express website interface. At the top, there is a navigation bar with the Oracle logo, a language dropdown set to "English", and a "Sign In" button. The main heading reads "Get started with Oracle Application Express." Below this, there are three prominent white boxes with icons and text:

- Download on OTN:** Represented by a green download icon. Text: "Install Oracle Application Express directly within any Oracle Database and begin building applications on premise or within your private cloud."
- Free Workspace:** Represented by a blue mouse cursor icon. Text: "Get your own free workspace within moments and take Oracle Application Express for a spin! No download, install, or waiting necessary."
- Oracle Cloud:** Represented by a red cloud icon. Text: "The Oracle Database Cloud Service enables ease of mind as you develop and deploy applications without worrying about infrastructure, repair, or downtime."

Below these boxes, a paragraph states: "Oracle Application Express enables you to design, develop and deploy beautiful, responsive, database-driven applications using only your web browser. See how you can take advantage of this fully-supported, no-".


The browser's address bar shows the URL "https://apex.oracle.com/en/". The page also features a background image of a pencil and a notepad, and a partial view of the Oracle Application Express interface at the bottom right.


# Выбрать <Application Development>

Request a Workspace

Type

What type of workspace would you like to request?

 Application Development

 Packaged Apps Only

Cancel

Next >

The image shows a 'Request a Workspace' dialog box. At the top, the title 'Request a Workspace' is centered. Below it is a progress indicator consisting of a horizontal line with six dots; the first dot on the left is filled with blue and labeled 'Type', while the other five dots are grey. The main question 'What type of workspace would you like to request?' is centered below the progress bar. Two options are presented side-by-side: 'Application Development' and 'Packaged Apps Only'. Each option has a blue square icon above its text. The 'Application Development' icon shows a pencil writing on a document with a yellow highlighter. The 'Packaged Apps Only' icon is a 2x2 grid of smaller icons: a calendar, a line graph, a person silhouette, and a speech bubble. The 'Application Development' option is highlighted with a blue border. At the bottom left is a 'Cancel' button, and at the bottom right is a blue 'Next >' button.



# Создать ACCOUNT и дождаться письма от APEX

Состояние	От Кого	Тема
<input type="checkbox"/> <input checked="" type="checkbox"/>	<a href="mailto:oracle-application-express_ww@oracle.com">oracle-application-express_ww@oracle.com</a>	Action required: account request for Na..
<input type="checkbox"/> <input checked="" type="checkbox"/>	Корпоративные ИТ-системы	Уведомление ID-карты с Oracle

# После входа по ссылке (в письме) и ввода пароля должны увидеть следующее:

The screenshot shows the Oracle Application Express dashboard. At the top, there is a navigation bar with the Oracle logo and the text 'Application Express'. Below this, there are four main application icons: 'Application Builder' (blue square with a pencil and paper), 'SQL Workshop' (green square with a code editor and a cloud), 'Team Development' (yellow square with a circular flow diagram), and 'Packaged Apps' (orange square with a grid and a person icon). Below the icons, there is a 'Top Applications' section with a table showing 'Top Users'. The table has three columns: 'Top Applications', 'Top Users', and 'News and Messages'. The 'Top Users' column shows a bar chart for 'N Grafeeva' with a value of 1. On the right side, there is a sidebar with 'About' information, a 'Dashboard' section with four circular gauges (Applications: 1, Tables: 21, Features: 0, Packaged Apps: 1), and 'Site-Specific Tasks' including 'APEX Meetups' and 'Download Oracle Application Express'.

Top Applications	Top Users	News and Messages
	<p>NG N Grafeeva 1</p>	

# SQL Workshop

The screenshot displays the Oracle Application Express (APEX) web interface. The browser's address bar shows the URL `https://apex.oracle.com/pls/apex/f?p=4500:1000:17506249503684:::...`. The main navigation bar includes the Oracle logo and the text "Application Express". Below this, there are several menu items: "Application Builder", "SQL Workshop" (which is currently selected and has a dropdown menu open), "Team Development", and "Packaged Apps". The dropdown menu for "SQL Workshop" lists the following options: "Object Browser", "SQL Commands", "SQL Scripts", "Utilities", and "RESTful Services".

The main content area is divided into several sections:

- Application Builder**: Represented by a blue icon with a pencil and paper.
- SQL Workshop**: Represented by a green icon with a document and a cloud.
- Team Development**: Represented by a yellow icon with a network diagram.
- Packaged Apps**: Represented by a red icon with a grid and a person.

Below the main navigation, there are three columns of content:

- Top Applications**: A section for listing top applications.
- Top Users**: A section showing a bar chart for user activity. The chart shows a single bar for "N Grafeeva" with a value of 1. The bar is blue and has a circular icon with "NG" next to the name.
- News and Messages**: A section for displaying news and messages, with a "+" and ">" icon indicating it can be expanded.

On the right side of the interface, there is a sidebar with the following sections:

- About**: A section providing information about the application.
- Dashboard**: A section containing several circular gauges and metrics. The first gauge shows the number "1" and is labeled "Application". The second gauge shows the number "0" and is labeled "Feature".
- Site-Spec**: A section for site specifications.
- APEX Meet**: A section for APEX Meet events.

# Object Browser

The screenshot displays the Oracle Application Express Object Browser interface. At the top, the browser window shows the URL `https://apex.oracle.com/pls/apex/?p=4500:1001:17506249503684:::` and several open tabs including "Object Browser". The Oracle Application Express navigation bar includes "Application Builder", "SQL Workshop", "Team Development", and "Packaged Apps". The "Object Browser" section is active, showing a "Schema" dropdown set to "GRAFEEVA". On the left, a "Tables" dropdown is selected, and a list of tables is displayed, including `APEX$TEAM_DEV_FILES`, `APEX$_ACL`, `APEX$_WS_FILES`, `APEX$_WS_HISTORY`, `APEX$_WS_LINKS`, `APEX$_WS_NOTES`, `APEX$_WS_ROWS`, `APEX$_WS_TAGS`, `APEX$_WS_WEBPG_SECTIONS`, `APEX$_WS_WEBPG_SECTION_HISTORY`, `DEMO_CONSTRAINT_LOOKUP`, `DEMO_CUSTOMERS`, `DEMO_ORDERS`, `DEMO_ORDER_ITEMS`, `DEMO_PRODUCT_INFO`, and `DEMO_STATES`. The footer contains the user `n.grafeeva@spsbu.ru`, the schema `grafeeva`, the language `en`, the copyright notice "Copyright © 1999, 2015, Oracle. All rights reserved.", and the version "Application Express 5.0.1.00.0".

# SQL Commands

The screenshot shows the Oracle Application Express (APEX) SQL Commands page. The browser address bar displays the URL `https://apex.oracle.com/pls/apex/?p=4500:1003:17506249503684:::`. The page header includes the Oracle logo and navigation tabs for Application Builder, SQL Workshop, Team Development, and Packaged Apps. The current page is titled "SQL Commands" and the schema is set to "GRAFEEVA".

Below the header, there is a "Rows" dropdown menu set to "10", a "Clear Command" button, and a "Find Tables" button. The main area is a large text input field for entering SQL or PL/SQL commands. To the right of the input field are "Save" and "Run" buttons.

At the bottom of the page, there is a navigation bar with tabs for "Results", "Explain", "Describe", "Saved SQL", and "History". Below this bar, a message reads: "Enter SQL statement or PL/SQL command and click Run to see the results."

The footer contains the user's email `n.grafeeva@spbu.ru`, the username `grafeeva`, the language `en`, the copyright notice "Copyright © 1999, 2015, Oracle. All rights reserved.", and the version number "Application Express 5.0.1.00.0".