

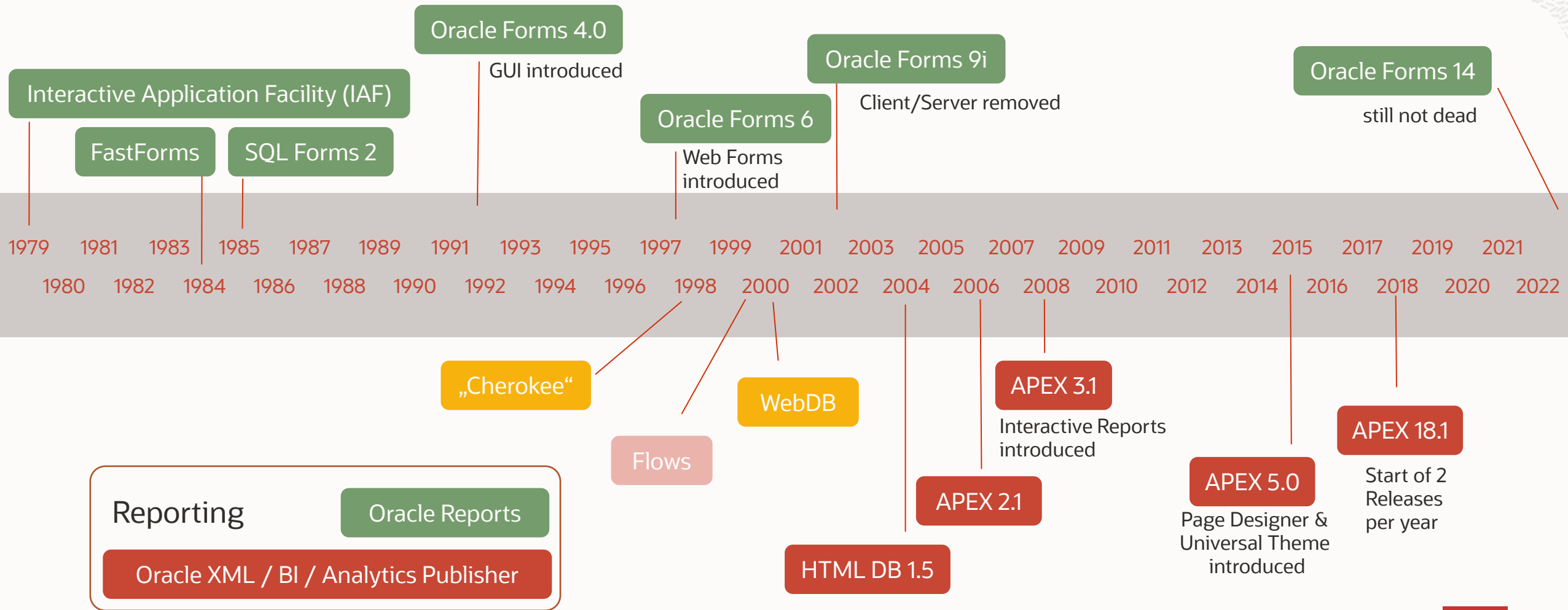


Was mache ich mit meinen Forms Anwendungen?

Rainer Willems

Master Principal Solution Engineer

Forms & APEX History



Oracle Forms & Reports

Support

Oracle Fusion Middleware Lifetime Support Policy (28.1.2023)
<https://www.oracle.com/us/assets/lifetime-support-middleware-069163.pdf>

Oracle Fusion Middleware Releases – 12c

Release	GA Date	Premier Support Ends	Extended Support Ends	Sustaining Support Ends
Fusion Middleware 12c (12.1.x) ¹	Dec 2011 – Feb 2015	Dec 2017	Dec 2019 ²	Indefinite
Fusion Middleware 12c (12.2.x) ³	Oct 2015 – Apr 2016	Dec 2025 ^{4,5}	Dec 2027 ⁵	Indefinite

³ Includes the following: WebLogic Server, Coherence, TopLink, HTTP Server, WebLogic Server Proxy Plug-In, Traffic Director, Business Intelligence Suite, SOA Suite, Real-Time Integration Business Insight, Business Process Management, MapViewer, B2B and Healthcare, Service Bus, Stream Analytics (Formerly Stream Explorer/Event Processing), Managed File Transfer, Data Integrator, Enterprise Data Quality, JDeveloper and Application Development Framework, **Forms and Reports**, WebCenter Portal, WebCenter Content, and WebCenter Site and Enterprise Metadata Management.

Oracle Forms & Reports

SOD

Oracle Forms (May 2021)

<https://www.oracle.com/docs/tech/oracleformssod.pdf>

Oracle continues its commitment to Oracle Forms. New releases are planned, and new features and other improvements are being considered. New releases are planned to include some of the following enhancements ...

Oracle Forms continues to be a core component in many Oracle products such as the following:

- Oracle E-Business Suite
- Oracle Utilities
- Oracle Retail
- Oracle LifeSciences
- Oracle Hospitality
- Oracle Insurance

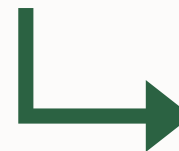
Oracle Reports (September 2021)

<https://www.oracle.com/a/otn/docs/oracle-reports-sod.pdf>

Deprecation Notice

Oracle Reports is no longer under active development which means that there are no plans to add any additional functionality to the product. If technically feasible, Oracle Reports may be made available in subsequent Fusion Middleware releases.

The **license entitlement** for Oracle "**Forms and Reports**" and "**Internet Developer Suite**" were **revised to include Oracle Analytics Publisher** (formerly BI-Publisher) as a replacement for Oracle Reports.



Oracle® Fusion Middleware

Licensing Information User Manual

E56762-63

February 2023

Oracle Fusion Middleware

SOD

Fusion Middleware Statement of Direction (January 2023)

<https://www.oracle.com/a/ocom/docs/middleware/fusion-middleware-statement-of-direction.pdf>

The next planned release of Oracle Fusion Middleware is Oracle Fusion Middleware 14.1.2,

:

Middleware products planned for inclusion in 14.1.2 are:

- WebLogic Server, Coherence and Oracle HTTP Server;
- JDeveloper and ADF;
- SOA Suite and BPM Suite;
- WebCenter Portal, WebCenter Content, and WebCenter Sites;
- Forms and Reports;

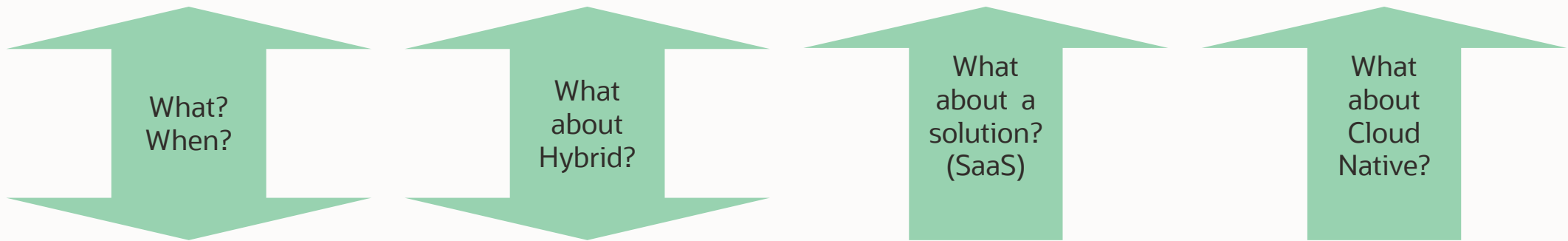
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What should I do with Oracle Forms Applications?

What ChatGPT is saying

If you are using Oracle Forms Applications, you have a few options:

1. **Upgrade:** Upgrade to the latest version of Oracle Forms and upgrade the underlying database to ensure compatibility and take advantage of new features and security fixes.
2. **Migrate:** Migrate to another technology such as Oracle APEX, Java, or another low-code platform that provides more modern and flexible development capabilities.



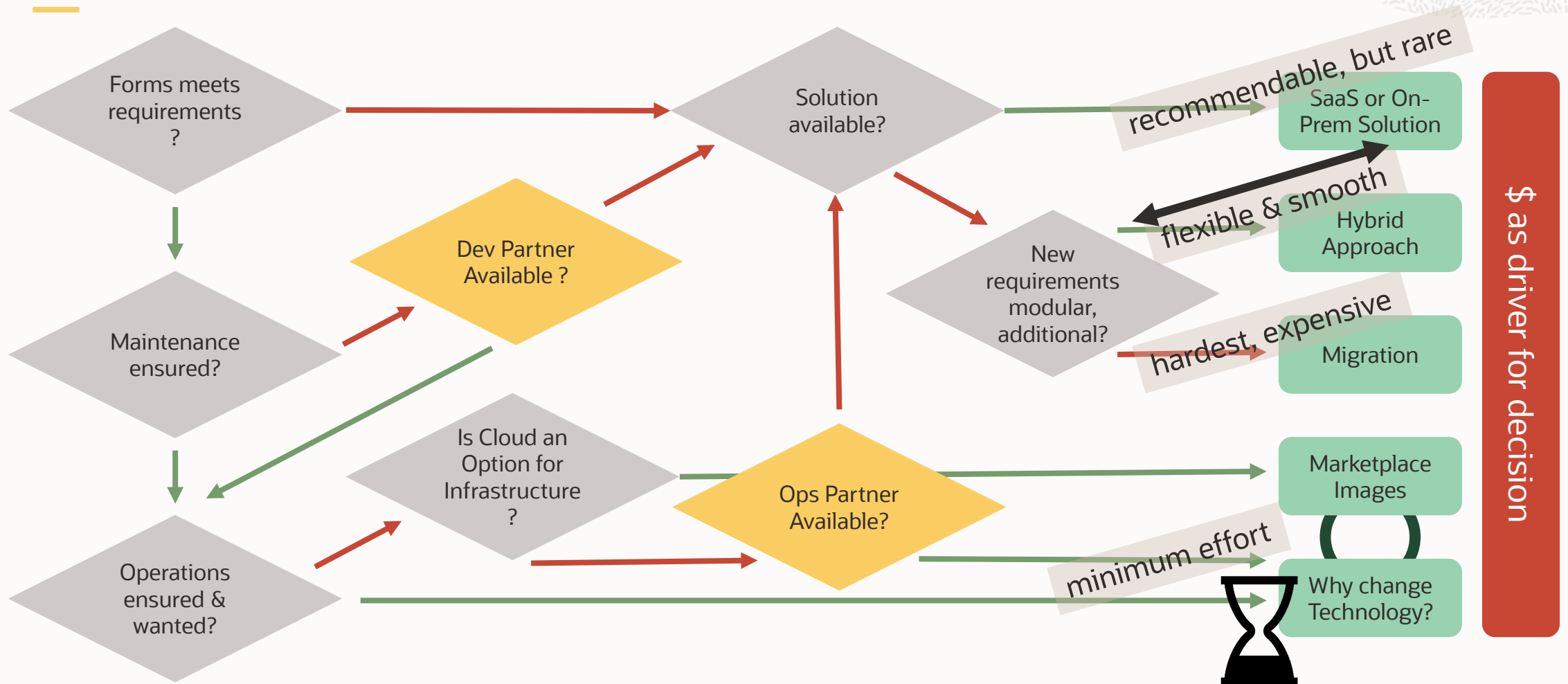
3. **Continuation:** Continue using Oracle Forms, but ensure that you have a plan in place to manage security, performance, and support for the applications.

Ultimately, the best approach depends on the specific requirements of your organization and the existing applications. It is recommended to seek guidance from a professional to determine the best path forward.



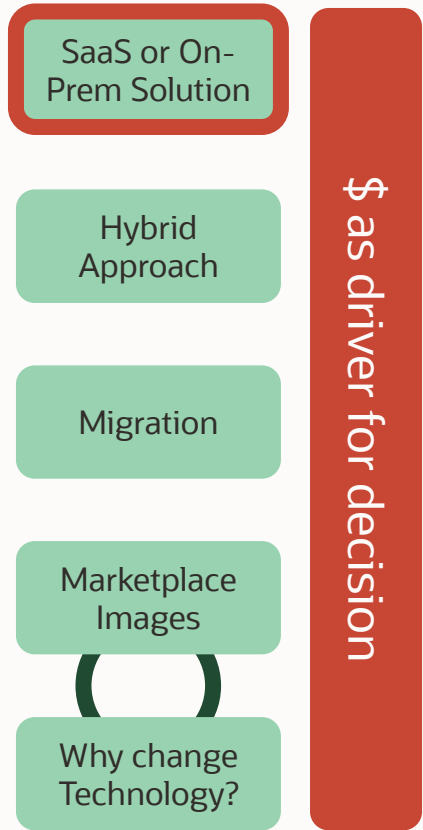
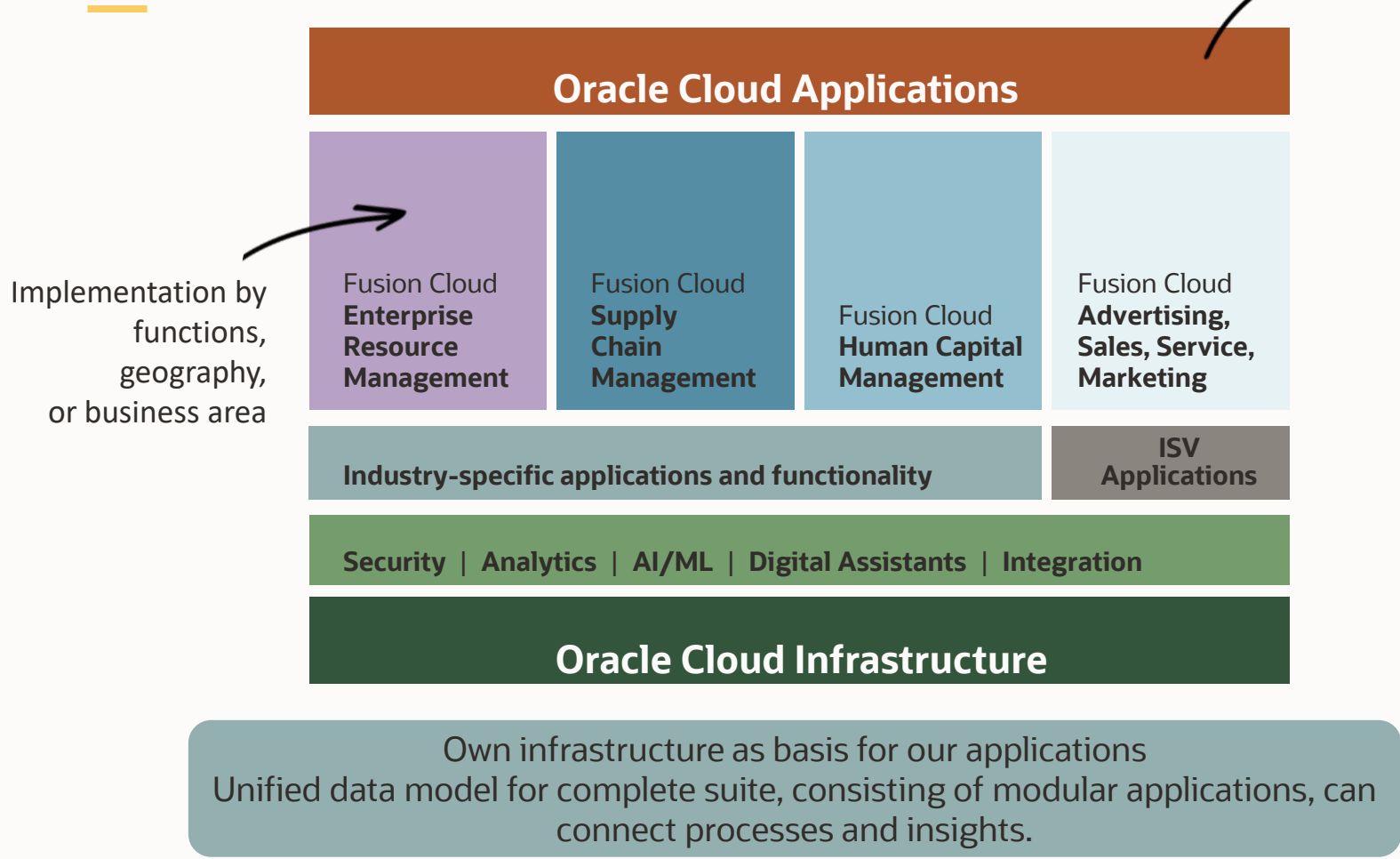
What to do with my Forms-Applications?

Extremely Simplified decision tree (assuming latest version in place)

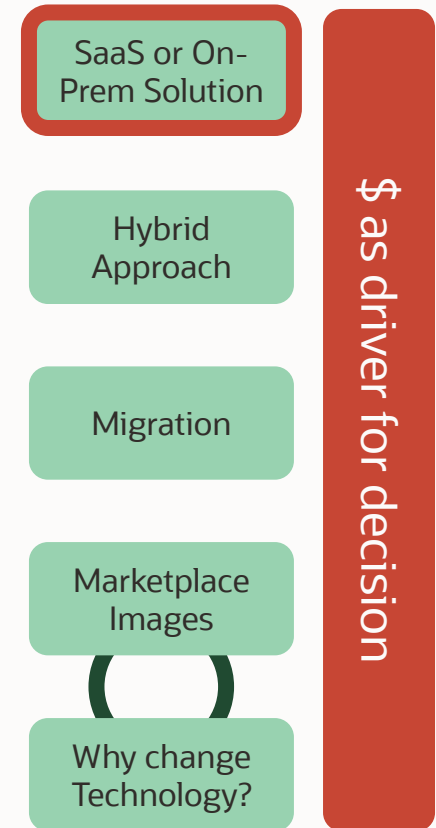
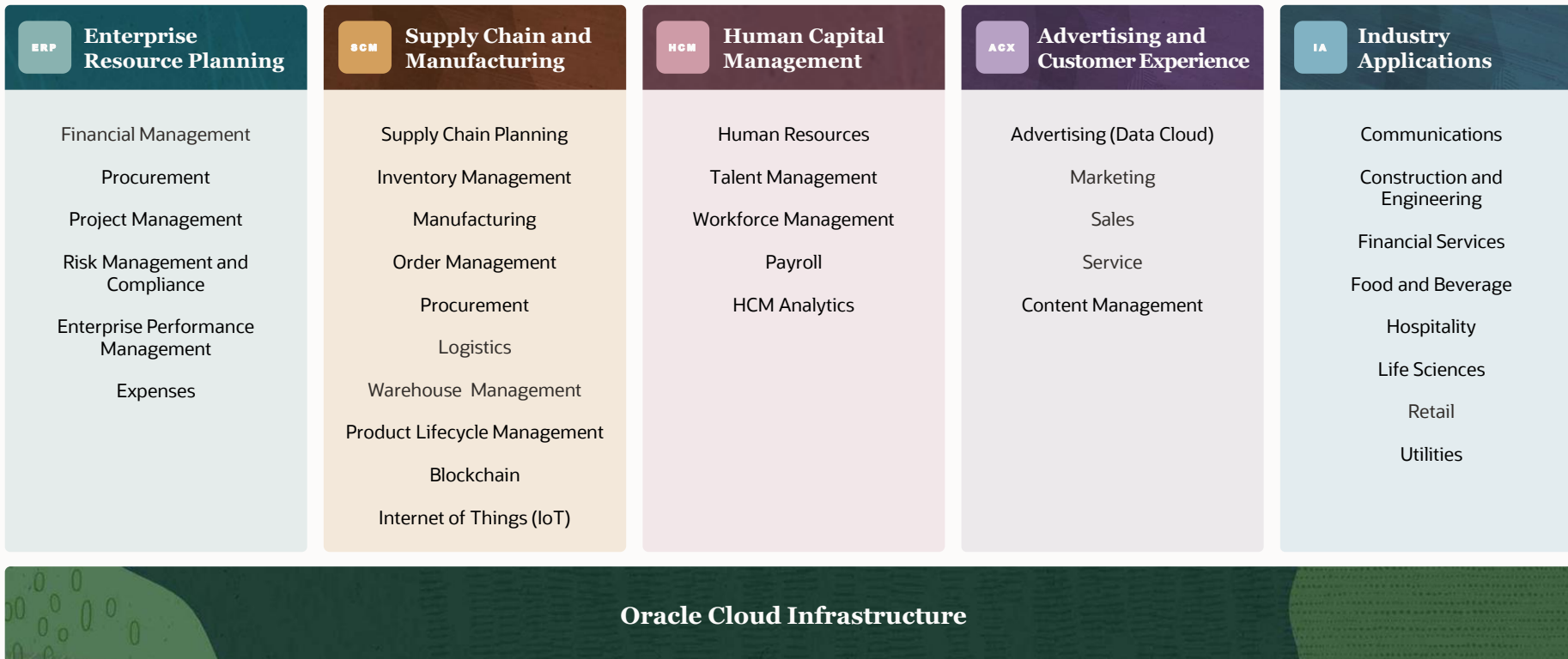


What to do with my Forms-Applications?

Start big or small



What to do with my Forms-Applications?



What to do with my Forms-Applications?

WebLogic Marketplace [UC or BYOL]

Automated WLS provisioning

- Configurable deployment with standard Terraform scripts
- Configurable Domain architecture
- 3-tier application deployment on OCI
- Vault management of Credentials

Limitations

- No Forms server binaries included
- Manual installation of Forms is required on all WebLogic Marketplace images

Oracle Form Services Marketplace [BYOL]

Automated Form Server provisioning

- Available as BYOL only
- Includes local Oracle database but can be configured to use a remote database or DBCS
- Scripted configuration of Forms services
- Includes Form & Report binaries

Limitations

- Single Node, no clustered configuration OOTB
- No added operational efficiency

SaaS or On-Prem Solution

Hybrid Approach

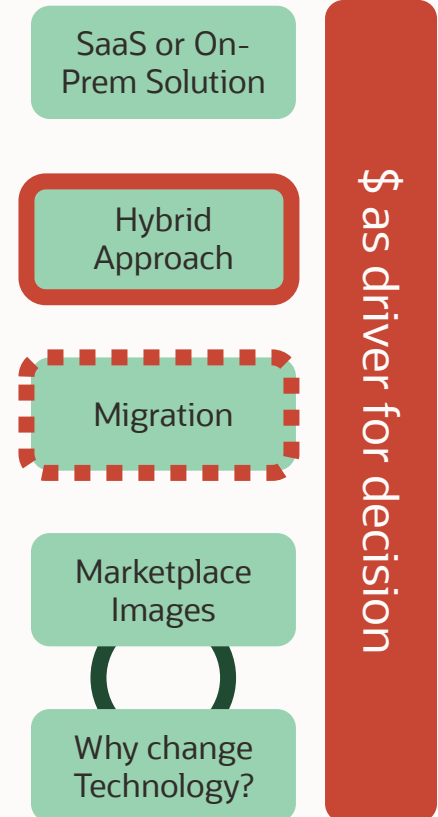
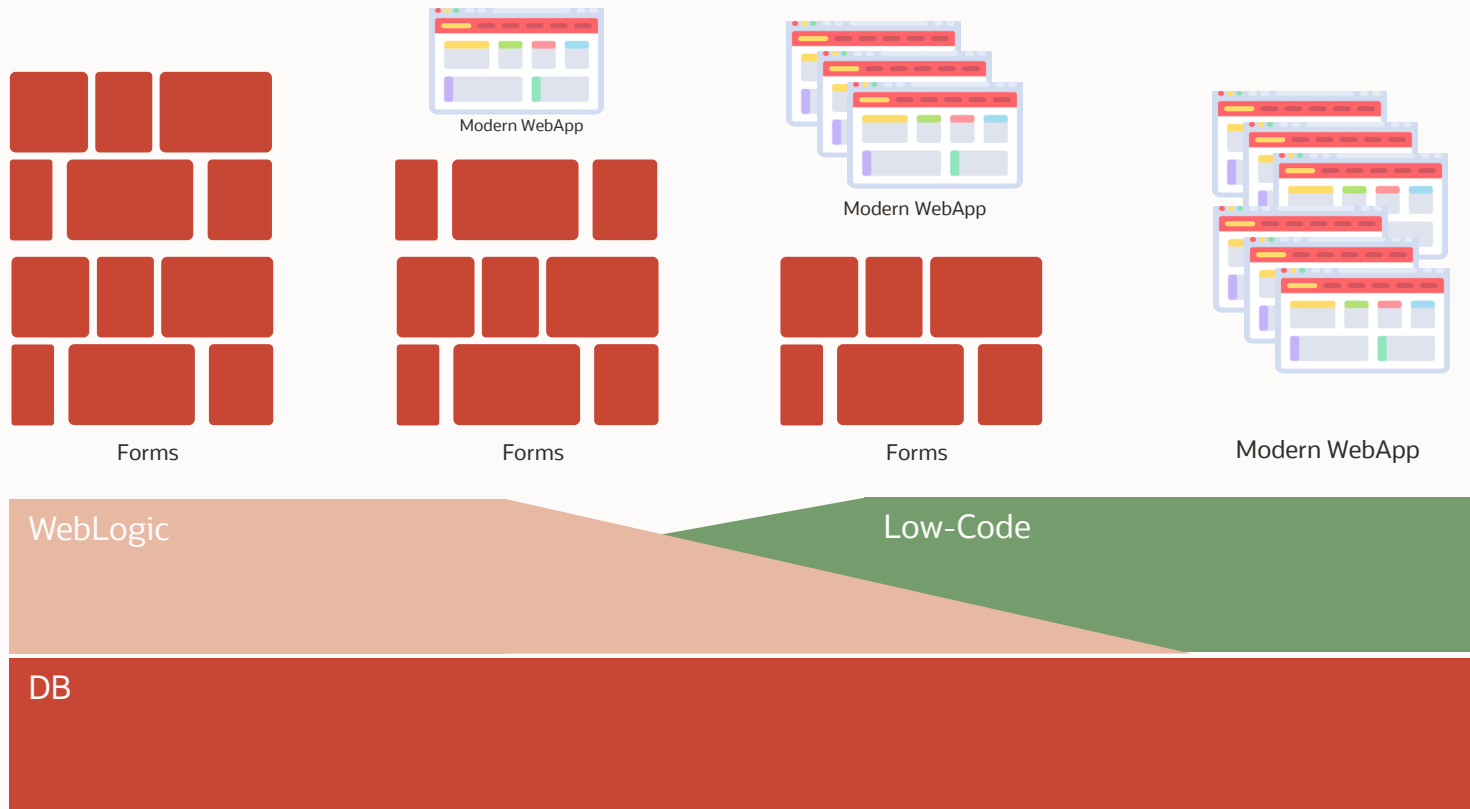
Migration

Marketplace Images

Why change Technology?

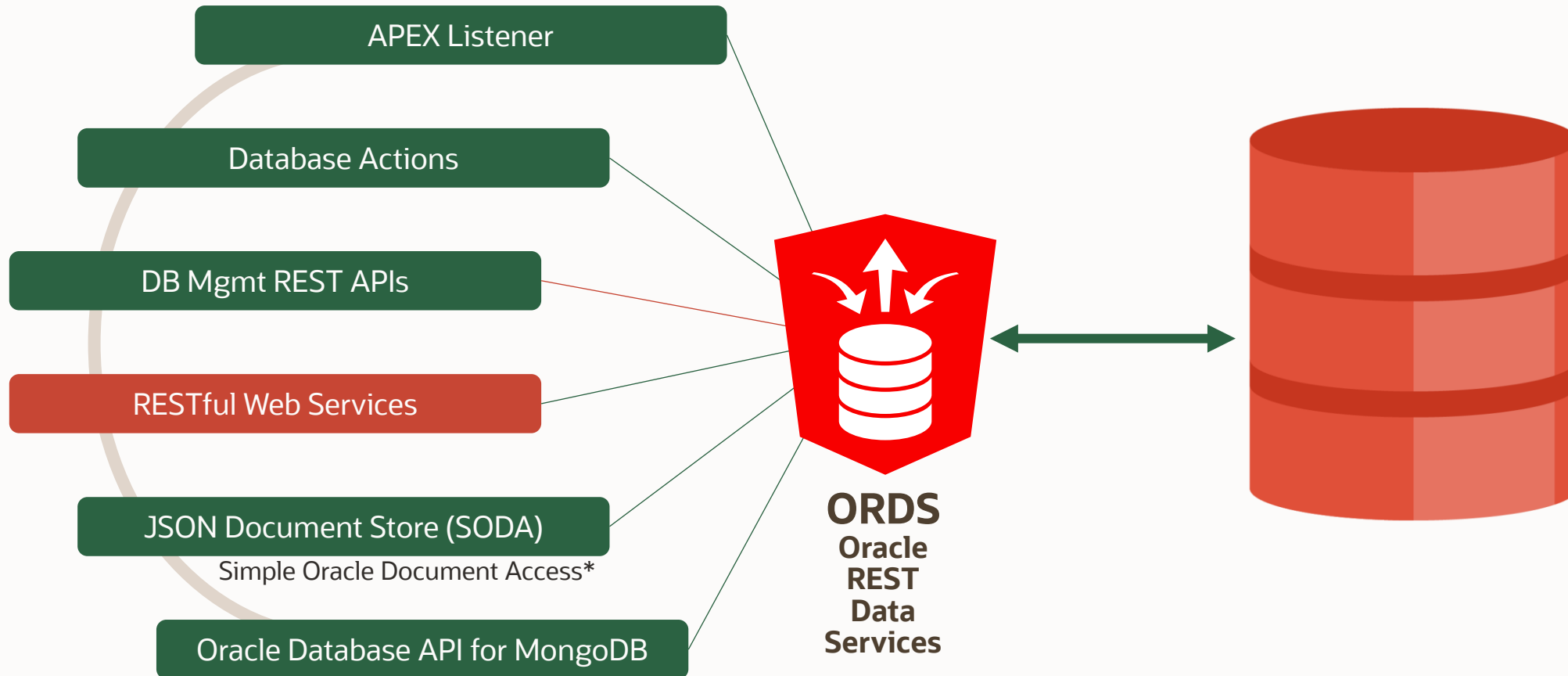
\$ as driver for decision

What to do with my Forms-Applications?



ORDS

REST enable your Database Objects incl. Code



What is the best environment to replace an Oracle Forms Application?

What ChatGPT is saying

The best environment to replace an Oracle Forms application depends on the specific requirements of your organization, including the existing applications, the required functionality, the development team's skillset, and the desired deployment model. Some popular alternatives to consider include:

1. **Oracle APEX:** Oracle APEX is a modern, web-based development platform that provides a user-friendly interface and ease of deployment. It is ideal for organizations looking for a low-code solution that integrates with the Oracle database.
2. **Java:** Java is a popular programming language that provides a wide range of development options. It is ideal for organizations with a development team skilled in Java and looking for a highly customizable solution.
3. **Low-code platforms:** Low-code platforms, such as Salesforce Lightning, PowerApps, and Mendix, provide a visual, drag-and-drop interface for application development and are ideal for organizations looking for a rapid development solution with a lower cost of ownership.

Ultimately, the best approach depends on the specific requirements of your organization and the existing applications. It is recommended to seek guidance from a professional to determine the best path forward

What Is Oracle APEX?

A low-code development platform that enables you to build scalable and secure enterprise apps with world-class features that can be deployed anywhere.



ā'pěks
(#orclapex)



What are the differences and the similarities of Oracle Forms and Oracle APEX?

What ChatGPT is saying

Differences:

1. Technology: Oracle Forms is a client-server technology that uses a dedicated Oracle Forms client, while Oracle APEX is a web-based technology that uses a web browser.
2. User Interface: Oracle Forms uses a form-based interface, while Oracle APEX uses a web-based interface.
3. Development: Oracle Forms uses a drag-and-drop interface for form design, while Oracle APEX uses a web-based interface for development.
4. Deployment: Oracle Forms applications must be deployed on a server, while Oracle APEX applications can be deployed in the cloud.

ok, at the latest here we should try natural instead of artificial intelligence



Similarities:

1. Database Integration: Both Oracle Forms and Oracle APEX integrate with the Oracle database and can use the same data and business logic.
2. Functionality: Both tools provide similar functionalities for building business applications, including reporting, data management, and user management.
3. Integration with other Oracle products: Both Oracle Forms and Oracle APEX can integrate with other Oracle products such as Oracle E-Business Suite, Oracle EPM, and Oracle SCM.



What are the differences and the similarities of Oracle Forms and Oracle APEX?

Both

- are low-code, declarative
- are high productive
- generate user-friendly UIs
- are database centric
- rely on SQL & PL/SQL
- can easily use DB features and DB objects

relatively easy to learn one if you can do the other

APEX

- requires (just) ORDS and runs inside the DB
- uses as web browser for developers & users
- is metadata based
- is responsive out of the box
- easy to style (theming, styles, CSS)
- can consume and sync with RESTful services declaratively
- can easy leverage JavaScript in the UI and the DB-Server

APEX

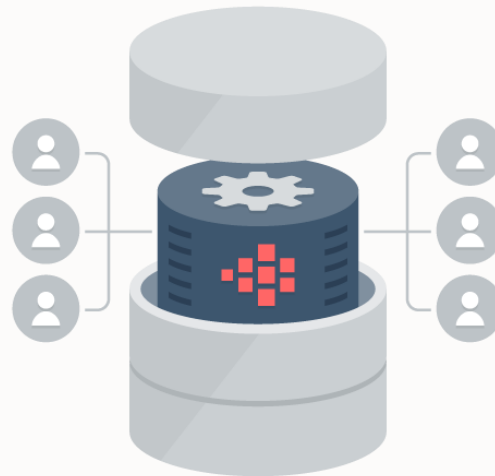
- is without licensing cost
- re-use all existing DB-Objects
- can co-exist with Forms
- runs everywhere
- has a huge community
- has default components for several use cases like for example Automations, Workflows or Geographical Data

Distinguishing Characteristics



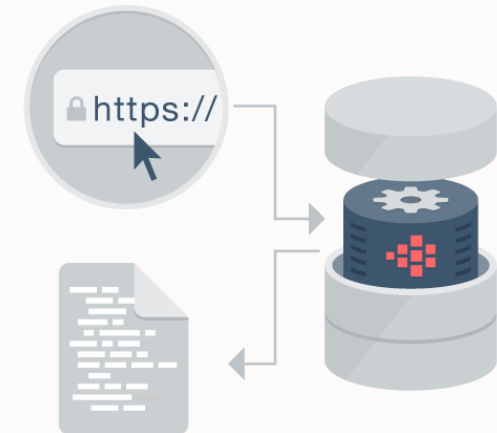
App Development IDE is **browser based**.

No client software needed



App definitions are stored in the database as **meta data**.

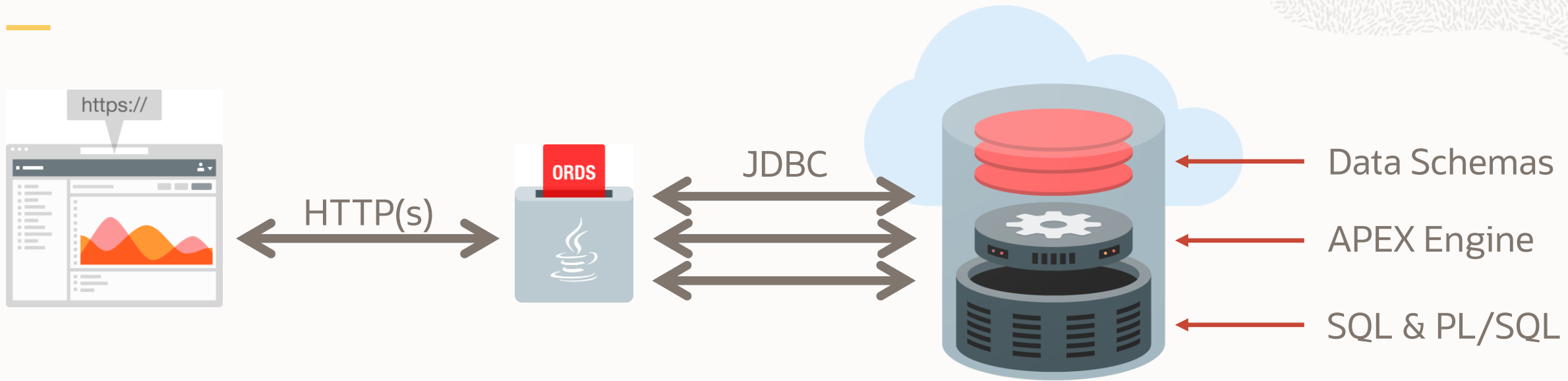
Declarative – No code generation



Zero latency access to your data

Data processing done in the Database

APEX Architecture



Oracle REST Data Services

(Weblogic, Jetty, Tomcat)

*No Application Logic
Converts HTTP to database API calls*

Oracle Datenbank

*Zero latency database data access
Dynamically driven by APEX metadata*

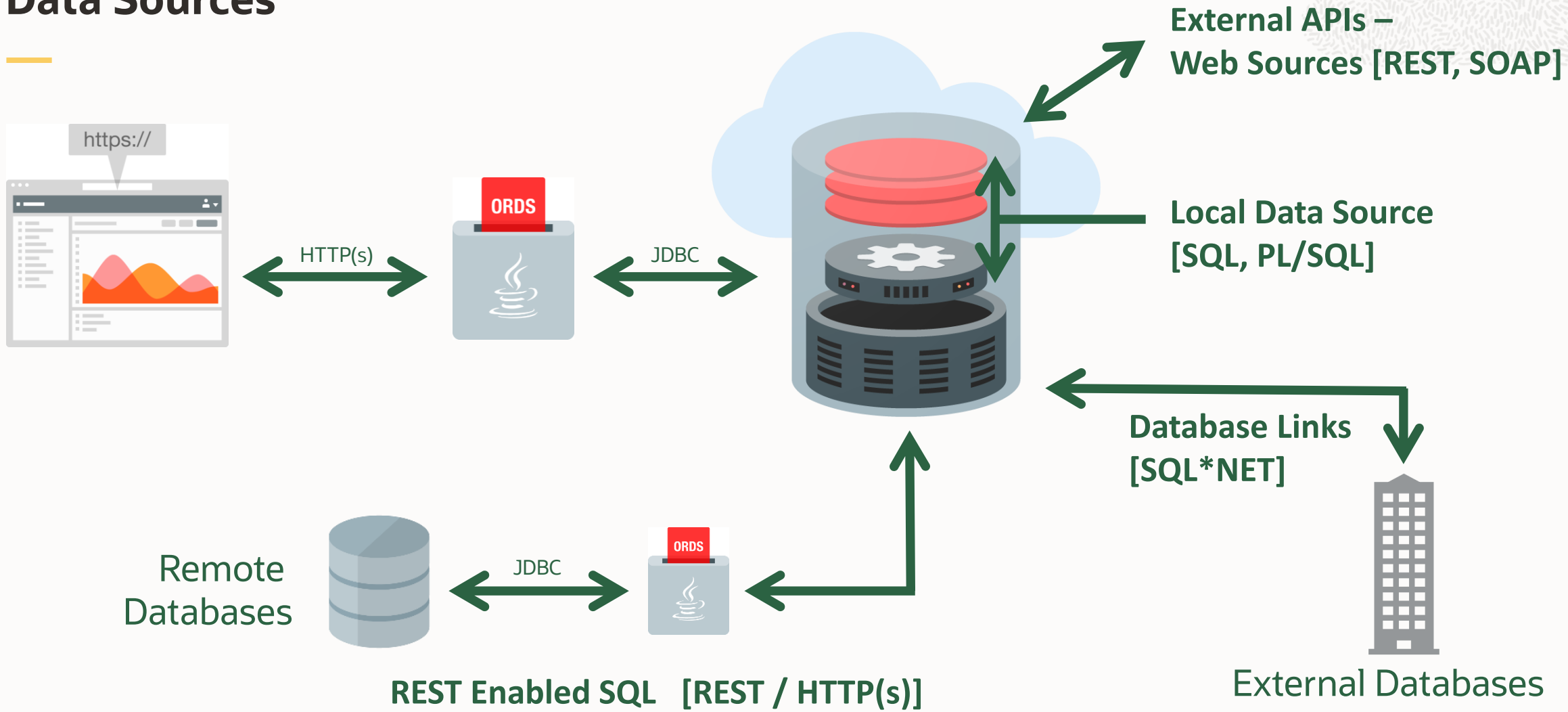
Browser

Mid Tier

Database Tier



Data Sources



Oracle APEX

Low Code & High Control

About Page

Access Control

Activity Reporting

Configuration Options

Email Reporting

Feedback

Job Reporting

Login Page

Theme Style Selection

Code Editor - SQL Query

```
1 select ID,  
2     ROW_VERSION,  
3     TITLE,  
4     CREATED,  
5     CREATED_BY,  
6     UPDATED,  
7     UPDATED_BY  
8 from SDS_SERVICEDESK_TYPES
```

Cancel OK

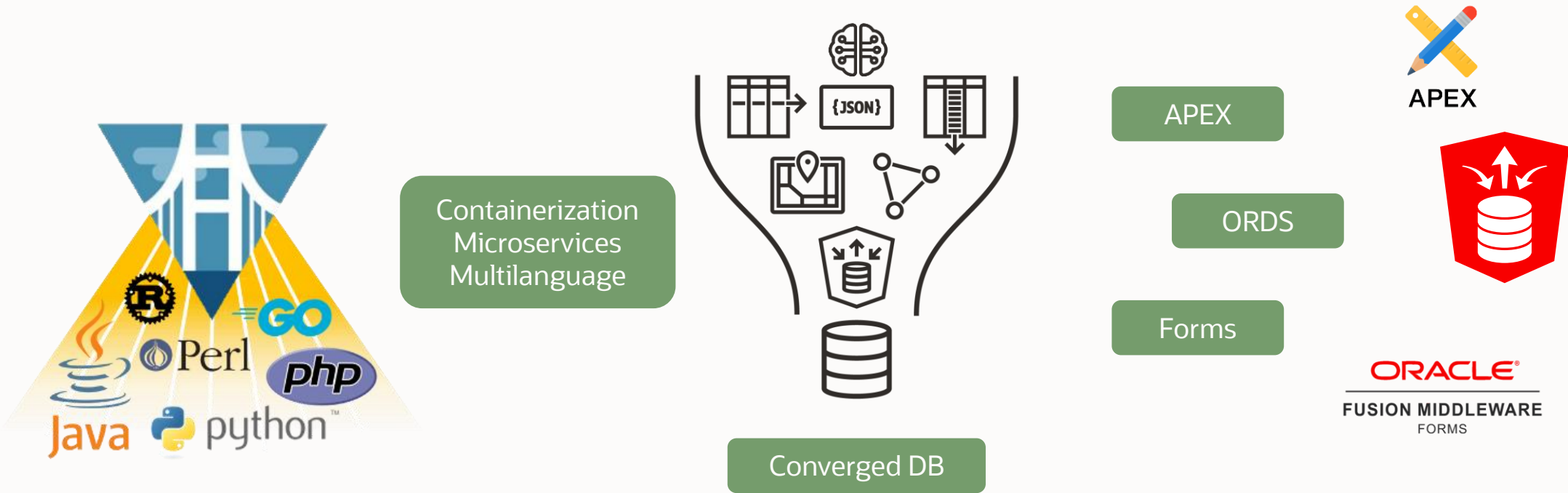
```
import React, { useState } from "react";  
import falconForm, { isRequired, isEmail } from "falcon-form";  
  
var renderCount = 0;  
  
const App = () => {  
  let [formInitialValues] = useState({  
    email: "",  
    name: ""  
  }); // getInitialValues, use setFormInitialValues to set data from API  
  
  const formSubmitAction = values => {  
    console.log("Form submitted", values);  
  }; // declare submit success action  
  
  const fieldValidators = {  
    email: [isRequired, isEmail],  
    name: [isRequired]  
  }; // declare field validators  
  
  const { values, errors, fieldChange, formSubmit } = falconForm(  
    formInitialValues,  
    formSubmitAction,  
    fieldValidators  
  );  
  // pass initial values, submit actions, field validators  
  // use values, errors and field handlers in form  
  
  renderCount += 1;  
  return (  
    <div>
```

Oracle APEX uniquely spans the App Dev spectrum, from No Code to Low Code to High Control



Application Development

On Top of the Converged Database



23^C Focus Areas
JSON, Graph, Microservices,
Developer Productivity

