Oracle® Cloud

Getting Started with Oracle Integration 3

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3 Get Started with Integration Recipes and Accelerators

A Recipes Reference

Preface

This document describes how business analysts and integration specialists get started working with Oracle Integration 3.

Topics:

Audience

This guide is intended for business analysts and developers who want to get an overview of Oracle Integration 3, what it can do, and how to use recipes to build their first integration.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at https://www.oracle.com/corporate/accessibility/.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit https://support.oracle.com/portal/ or visit Oracle Accessibility Learning and Support if you are hearing impaired.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Resources

For more information, see these Oracle resources:

- Oracle Integration documentation on the Oracle Help Center.

- Oracle Cloud at http://cloud.oracle.com.

Conventions

The following text conventions are used in this document.

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Welcome to Oracle Integration 3

Oracle Integration 3 is a cloud-native version of Oracle Integration. It delivers improved performance and time to market for new features, a new look and feel, and improvements in provisioning new instances by more deeply leveraging the power of Oracle Cloud Infrastructure.

Oracle Integration 3 remains a fully managed, preconfigured environment that gives you the power to integrate your cloud and on-premises applications. Select from our growing portfolio of hundreds of adapters and recipes to connect with Oracle and third-party applications.

Topics:

A Quick Introduction to Oracle Integration

Oracle Integration is a fundamental part of your digital business development. It involves connecting on-premises applications and cloud applications and services.

With Oracle Integration, you can:

- Develop *integrations* and *robots* to synchronize data, automate business processes, and monitor these workflows.
- Create *process applications* to automate and manage your business work flows.
- Build custom *web and mobile applications*.
- Store and retrieve files in Oracle Integration using the embedded SFTP-compliant *file server*.
- Create integrations that use *B2B* e-commerce to extend business processes to reach trading partners.
- Create integrations that interact with healthcare organizations that use HL7 and FHIR.

Critical business processes, such as those related to human capital management (HCM), customer experience (CX), and enterprise resource planning (ERP), are frequently slow and inflexible. For example, a multistep process such as Lead to Opportunity to Quote to Order can involve four or more applications and require human exception management at every step of the process. In this scenario, the lack of integration between departments as well as the delays caused by human-based problem resolution can result in lost revenue, frustrated customers, and high costs.

Oracle Integration changes all that. It empowers you to:

- Establish connectivity between the many applications and people that are part of the entire business process life cycle.
- Assemble existing technologies into new business services to better align with the changing pace of new business demands.
- Deliver new business innovations faster by rapidly connecting diverse applications and key business roles.
- Gain 360-degree views across your entire business. Easily monitor and analyze every application, automation solution, and workflow spanning the business process life cycle.

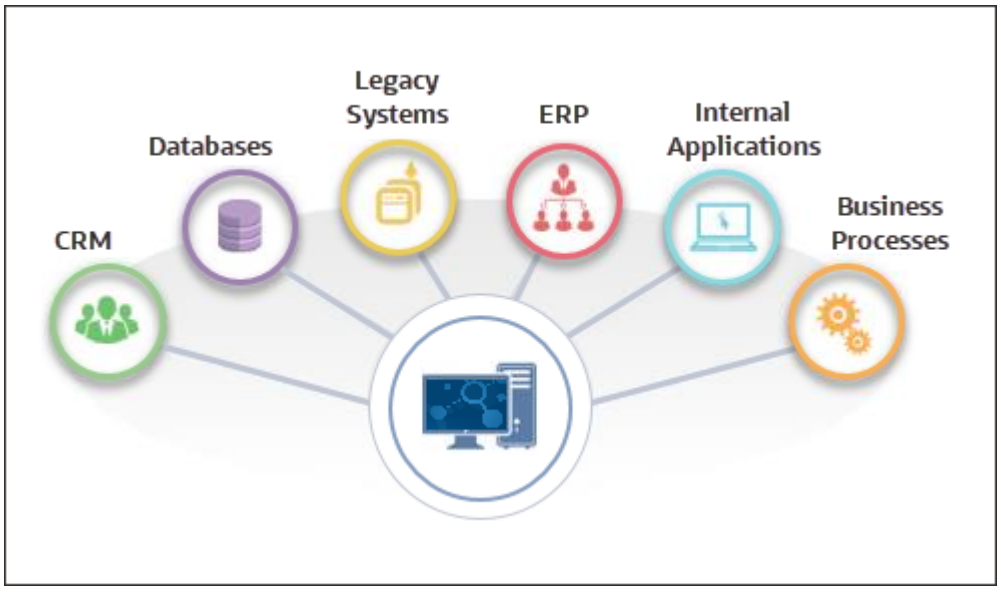
Connect to Everything

Oracle Integration solves the application silo problem. It brings together data and workflows between disparate software applications for them to function as one.

Oracle Integration provides several tools for automating business processes, including integrations and robots, which perform this work in different ways:

- An integration gets information from an application by calling its APIs.
- A robot gets information from an application by opening the application and completing a task in the user interface as a person does.

Integrations and robots deal with live operational data. Data can be processed either in real-time or in batch, and between two or more applications, events, or application programming interfaces (APIs).



Deployment Flexibility

With integrations and robots, you can connect to anything without getting bogged down in technical implementation details.

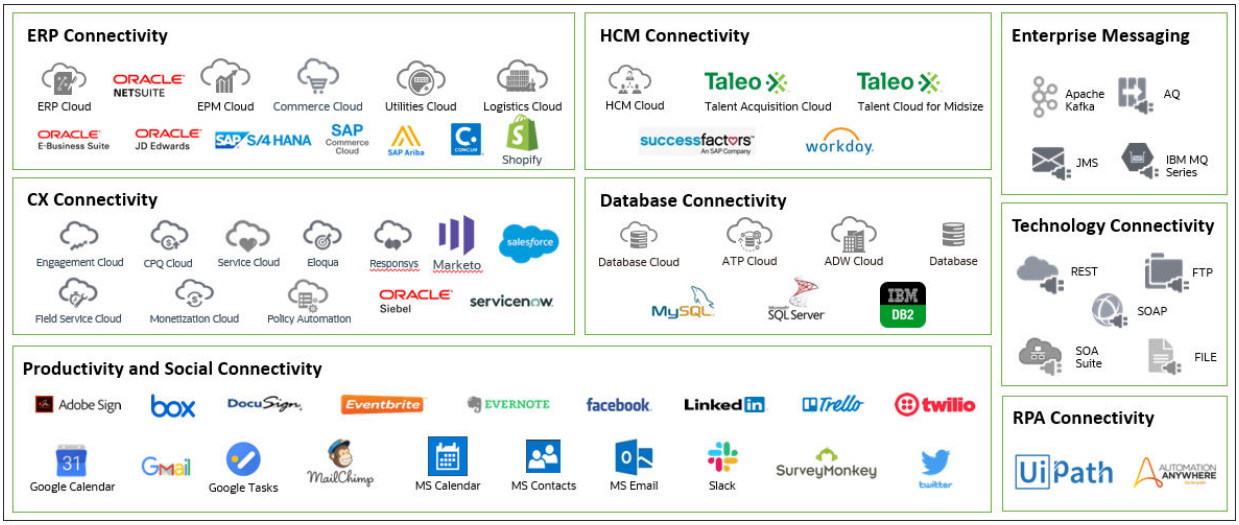
You can bring data and applications together across on-premise and cloud systems: cloud to cloud, cloud to on-premises (ground), and on-premises to on-premises (ground to ground).

Library of Prebuilt Adapters

When you develop an integration from scratch, your first task is to create a connection for each application that you're going to connect to. The connection defines how you'll connect to the application. When you create a connection, your first step is to select an adapter.

An **adapter** provides the means for Oracle Integration to connect to different applications. After you choose an adapter, you provide the information that lets the adapter successfully find and connect to a particular instance of an application. The information might include the application URL, the security policy to use, and the credentials for signing in to the application.

Oracle Integration includes dozens of prebuilt adapters that make it easy for your integrations to connect to a range of Oracle and third-party applications, including applications that handle your customer relationships, human resources, supply chain, resource planning, e-commerce, social media, and databases. Also, the FTP, REST, and SOAP adapters let you use standard file, web, and messaging protocols. And all adapters let you connect to applications that are on-premises or in the cloud.



For a full list of adapters currently supported by Oracle Integration, see Adapters. New adapters are added all the time.

The Rapid Adapter Builder

The Rapid Adapter Builder in Oracle Integration enables you to build an adapter for any application that exposes RESTful APIs, without having to develop complex code from scratch.

As discussed in the previous section, Oracle Integration has an ever-growing library of application-specific adapters that you can readily use for your integration scenarios. However, when an Oracle-provided adapter is not available for your purpose, you can build your own adapter using the Rapid Adapter Builder. It provides all the necessary infrastructure to build

adapters for Oracle Integration. An adapter built using the Rapid Adapter Builder can offer the same capabilities as an Oracle-provided adapter. You can implement behaviors similar to those available in the existing adapters on Oracle Integration.

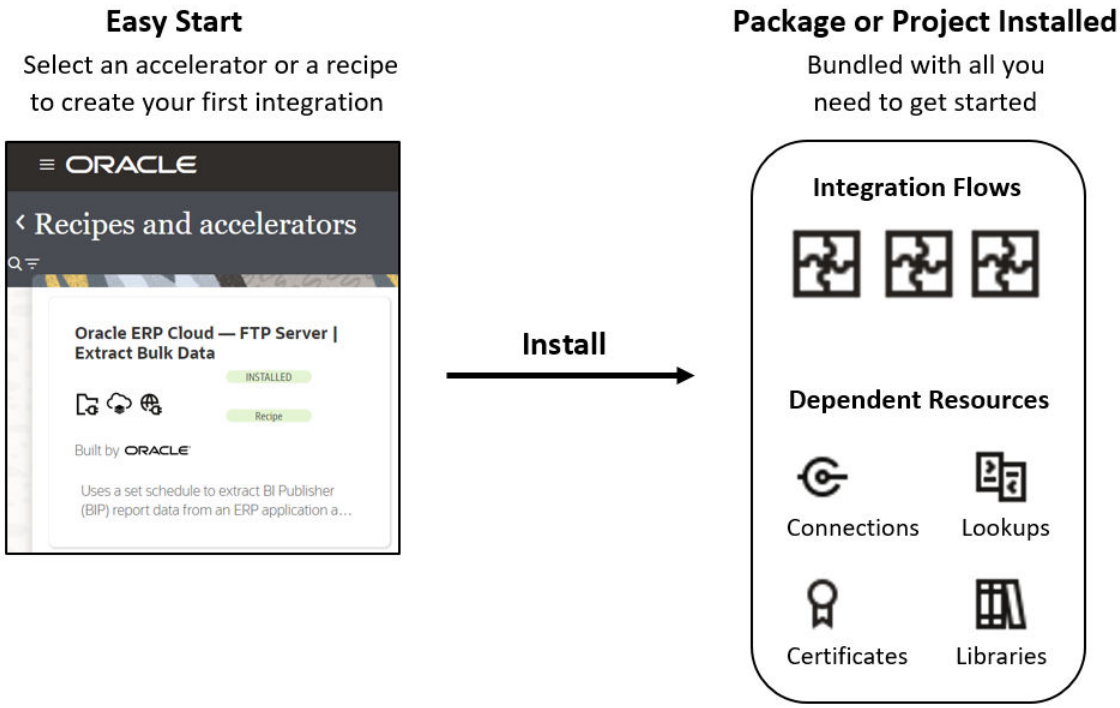
The Rapid Adapter Builder is available as a Visual Studio Code (VS Code) extension, which helps you generate the code required to build an adapter. Using this extension, you can iteratively develop your adapter and publish it to Oracle Integration. See *Using the Rapid Adapter Builder with Oracle Integration 3*.

Integration Recipes and Accelerations

You don't need to develop an integration flow or use case from scratch. You can install ready-made integration recipes and accelerators from the Home page.

Recipes and accelerators are collectively known as **prebuilt integrations**. **Recipes** are sample use cases that give you a head start. **Accelerators** are run-ready business integrations or technical patterns of larger scale.

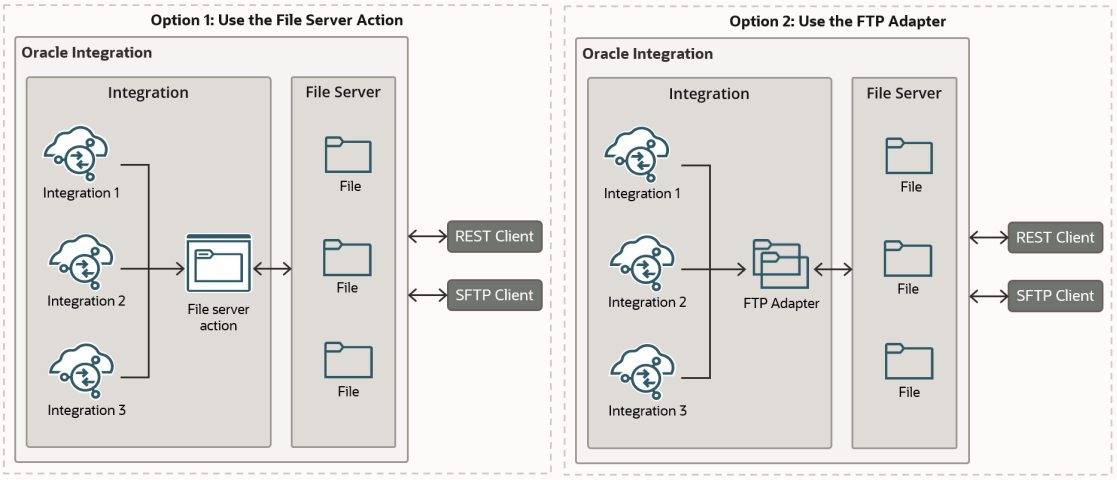
When you install a recipe or an accelerator, it's installed as a package or project. The package or project contains all the resources you need for an application-integration scenario. The resources it contains include one or more integrations flows and dependent resources, such as, connections, certificates, lookups, and libraries.



For a full list of recipes and accelerators currently available for Oracle Integration, see Recipes and Accelerators in the Oracle Help Center. The collection is growing all the time.

Embedded File Server

Use **File Server** to store files or transfer real-time data among applications securely. File Server provides an embedded Secure File Transfer Protocol (SFTP) server within Oracle Integration, so you can focus on building integrations without needing to host and maintain a separate SFTP server.



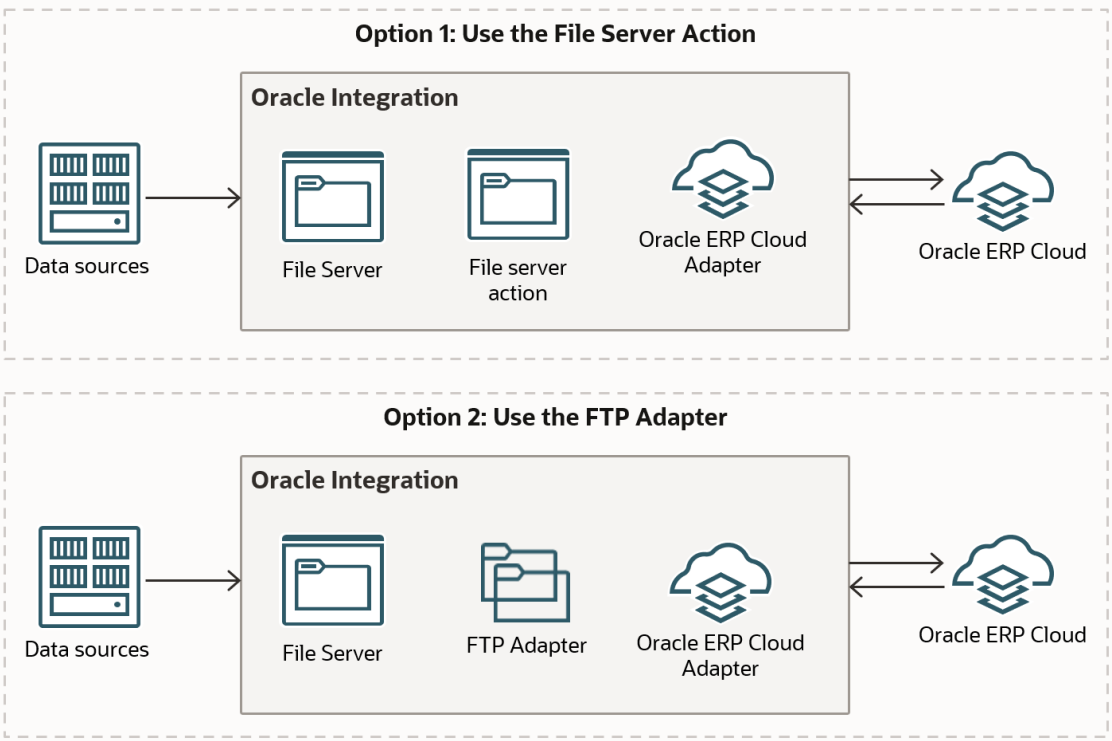
With File Server, you can:

- Design integrations that process your files that reside in the embedded file server.
- Eliminate the cost and operational expenses associated with hosting and maintaining an SFTP server by moving your SFTP server to the cloud. If you have an on-premises SFTP server, then you can move your SFTP files into File Server in Oracle Integration and use the SFTP adapter to connect.
- Give your vendors or partners access to Oracle Integration to upload and download files with their SFTP client software. A common protocol for communication with partners is SFTP. File Server enables partners to send information such as purchase orders, invoices, shipping information, and so on through SFTP.

Example: Read, Transform, Write

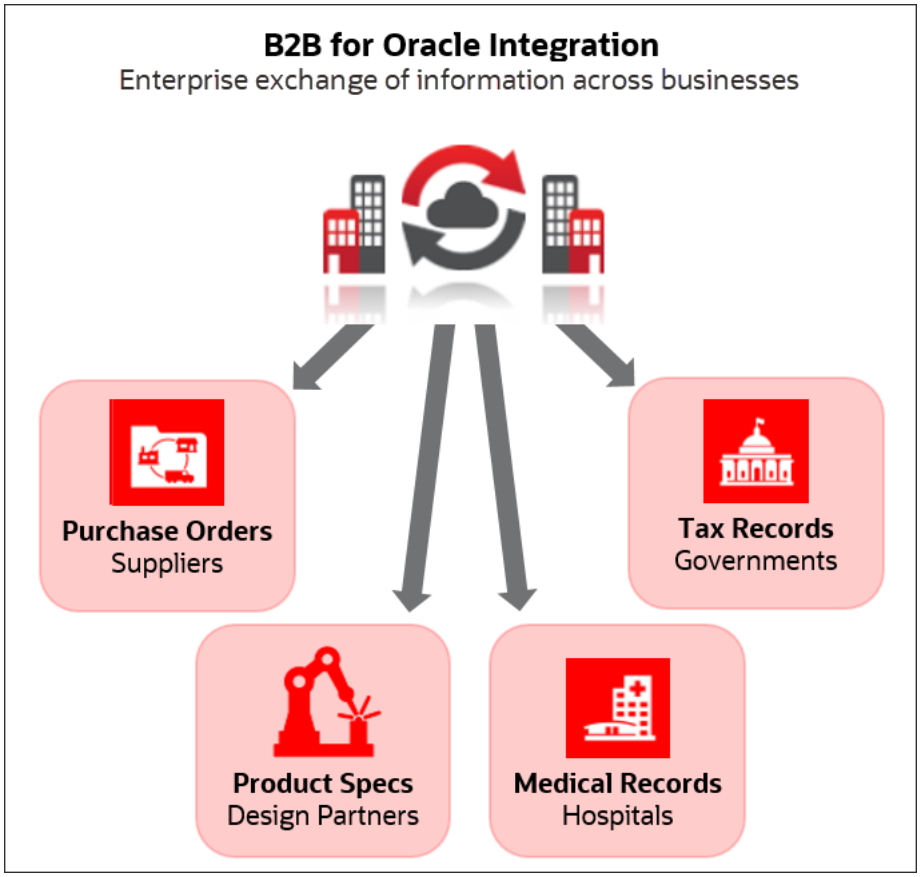
For example, if you have applications that export bulk data to an SFTP server, Oracle Integration can pick up the file, translate it into the required format, and send it to the target system. For instance, E-Business Suite generates a zip file with external transactions and uploads it to File Server. An integration can then read the file, transform it into the format required by the ERP system, and trigger bulk import of the data.

You have two options for connecting to File Server: the FTP Adapter and the File server action.



Business-to-Business Communications

B2B for Oracle Integration provides support for business-to-business (B2B) e-commerce. You can communicate with trading partners, and send and receive data in integrations with B2B.



B2B for Oracle Integration lets you:

- Securely exchange business documents, such as purchase orders or product specifications, with your trading partners using standard Electronic Data Interchange (EDI) formats.
- Securely exchange outside the enterprise with your trading partners.

In B2B e-commerce, an enterprise extends its business processes to reach trading partners, for example, suppliers, manufacturers, hospitals, and government agencies. B2B e-commerce represents classic business processes, mature business documents, and industry-tempered messaging services. It requires a unified business process platform, end-to-end instance tracking, visibility and auditing, integrated process intelligence, process and service governance, and centralized security.

Connect to Healthcare Systems

Use Oracle Integration for Healthcare to integrate business and health data using industry standards such as Health Level Seven (HL7) and Fast Healthcare Interoperability Resources (FHIR) with Oracle Integration. To use Oracle Integration for Healthcare, you provision a Healthcare edition of Oracle Integration from the Oracle Cloud Infrastructure Console.

The Healthcare edition provides the same capabilities as the Enterprise edition, plus the following additional features:

- Healthcare HL7 message and schema editor
  - Customize HL7 version 2 message schemas with the built-in editor.
  - Start with any standard HL7 version 2 message and add or remove segments, fields, repeating elements, and so on.

  - Use preloaded, standard HL7 message schemas (versions 2.3.1 through 2.9).
- Healthcare action
  - Parse, validate, and transform native HL7 messages in your integrations with a healthcare action in the integration canvas.
- FHIR Adapter
  - Consume external FHIR resources from your integration.
  - Define and invoke the remote FHIR API through a simple wizard-driven approach.
  - Perform create, read, update, delete, and search operations.
- MLLP Adapter
  - Allows bidirectional (trigger and invoke) connections supporting the TCP-based MLLP protocol.
  - Supports native transport of HL7 version 2 messages.
- Extended data retention
  - Supports activity stream data retention for six months.

See Introduction to Oracle Integration for Healthcare in *Using Oracle Integration for Healthcare in Oracle Integration 3*, FHIR Adapter Capabilities in *Using the FHIR Adapter with Oracle Integration 3*, and MLLP Adapter Capabilities in *Using the MLLP Adapter with Oracle Integration 3*.

Connect to Oracle SOA Suite

If you currently use Oracle SOA Suite (either on premises or in the cloud using Oracle SOA Cloud Service or Oracle SOA Suite on Marketplace), adding Oracle Integration to your setup unlocks new features and capabilities.

- Oracle SOA Suite is a customer-managed deployment that is available either on-premises or in Oracle Cloud Infrastructure.

  In contrast, Oracle Integration is an Oracle-managed PaaS platform. With Oracle Integration, Oracle manages responsibilities such as upgrades, patching, high availability, performance tuning, and scaling.
- Oracle Integration provides a rich set of SaaS adapters to connect natively to Oracle SaaS applications (both on premises and in the cloud).

  These include Oracle Cloud ERP, Oracle Cloud HCM, Oracle E-Business Suite, Oracle CX Sales and B2B Service, and others. See the Adapters page on the Oracle Help Center for the growing list of Oracle Integration adapters.
- Oracle Integration provides a low-code platform where you can easily build drag-and-drop integrations between cloud and on-premise applications.

To retain your investment in Oracle SOA Suite, you can connect your existing SOAP-based and REST-based composite applications to Oracle Integration. Creating the connection is easy using the connectivity agent and Oracle SOA Suite Adapter. Then, you can develop new integrations in Oracle Integration that connect your existing Oracle SOA Suite composite applications to other products and services. Over time, you can reimplement your Oracle SOA Suite composite applications and artifacts in Oracle Integration. See:

- Oracle SOA Suite Adapter Capabilities in *Using the Oracle SOA Suite Adapter with Oracle Integration 3*.

- About Creating Hybrid Integrations Using Oracle Integration in *Using Integrations in Oracle Integration 3*.

> **Note:**
>
> If you are using Oracle SOA Suite on-premises, you can reduce your overhead by moving fully to the cloud. Migrating to Oracle SOA Suite on Marketplace provides a Platform as a Service (PaaS) computing platform solution for running applications in the cloud. It includes a complete set of service infrastructure components for designing, deploying, and managing composite applications. See Differences Between Oracle SOA Suite On-Premises and Oracle SOA Suite on Marketplace in Oracle SOA Suite on Marketplace.

For documentation about the Oracle SOA Suite offerings on different platforms, see Oracle SOA Suite on the Oracle Help Center.

Automate and Optimize End-to-End Business Processes

Automate and optimize any **process** in your organization. For example, you can automate core business processes such as loan origination if you're a bank, shipping and handling if you're a delivery service, or opportunity to order if you're in retail.

With the Oracle Cloud Infrastructure Process Automation design-time (Designer) and the runtime (Workspace) environments, you can rapidly design, automate, and manage business processes in the cloud. When you use Oracle Cloud Infrastructure Process Automation with Oracle Integration, the power to integrate and work with cloud applications increases manifold in your process applications with access to integrations that are designed in Oracle Integration. See Use Process Automation with Oracle Integration 3 in *Using Oracle Cloud Infrastructure Process Automation*.

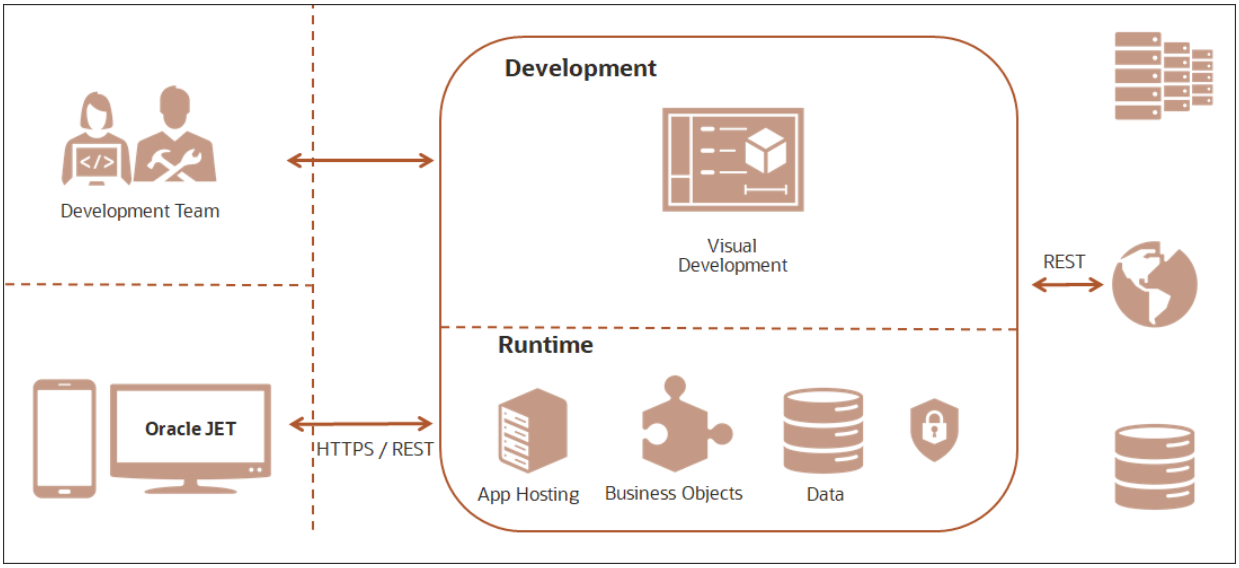
To use Process Automation with Oracle Integration, you must first enable it with an Oracle Integration instance from the Oracle Cloud Infrastructure (OCI) Console. See Enable Process Automation with Oracle Integration 3 in *Administering Oracle Cloud Infrastructure Process Automation*.

The following Oracle Cloud Infrastructure Process Automation documentation is available on the Oracle Help Center:

- *What's New for Oracle Cloud Infrastructure Process Automation*
- *Known Issues for Oracle Cloud Infrastructure Process Automation*
- *Administering Oracle Cloud Infrastructure Process Automation*
- *Using Oracle Cloud Infrastructure Process Automation*
- *REST API for Oracle Cloud Infrastructure Process Automation*
- *Licensing Information User Manual for Oracle Cloud Infrastructure Process Automation*

Build Web and Mobile Apps in Minutes

With **Visual Builder**, you can extend your applications to meet your unique needs and build great web and mobile applications yourself. There's no coding, no setup, and no IT resources required.



Visual Builder provides all the necessary tools for you to build, publish, and host modern web and mobile applications:

- Configure and customize Oracle Cloud applications using the same development environment that Oracle Cloud applications are built on.
- Use cloud-based visual tools to rapidly create and host web and mobile applications with minimal coding required.
  - Use the what-you-see-is-what-you-get (WYSIWYG) page designer to drag and drop UI components and visually create your pages.
  - Create custom reusable business objects that store data and implement business logic.
  - Publish your application with the push of a button and make it available to users.
- Easily connect REST APIs to integrate data from other applications into yours. For more complex needs, developers can extend the functionality of the application using standard JavaScript, HTML, and CSS.

Visual Builder also provides the infrastructure for securing access to your application, data, and the Oracle Cloud services that your application consumes.

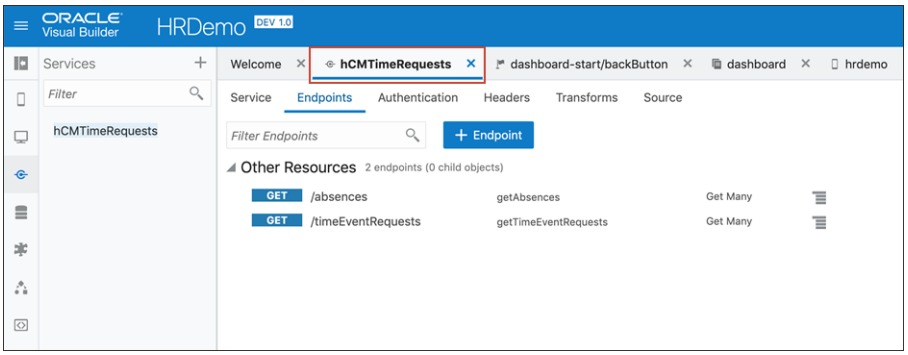
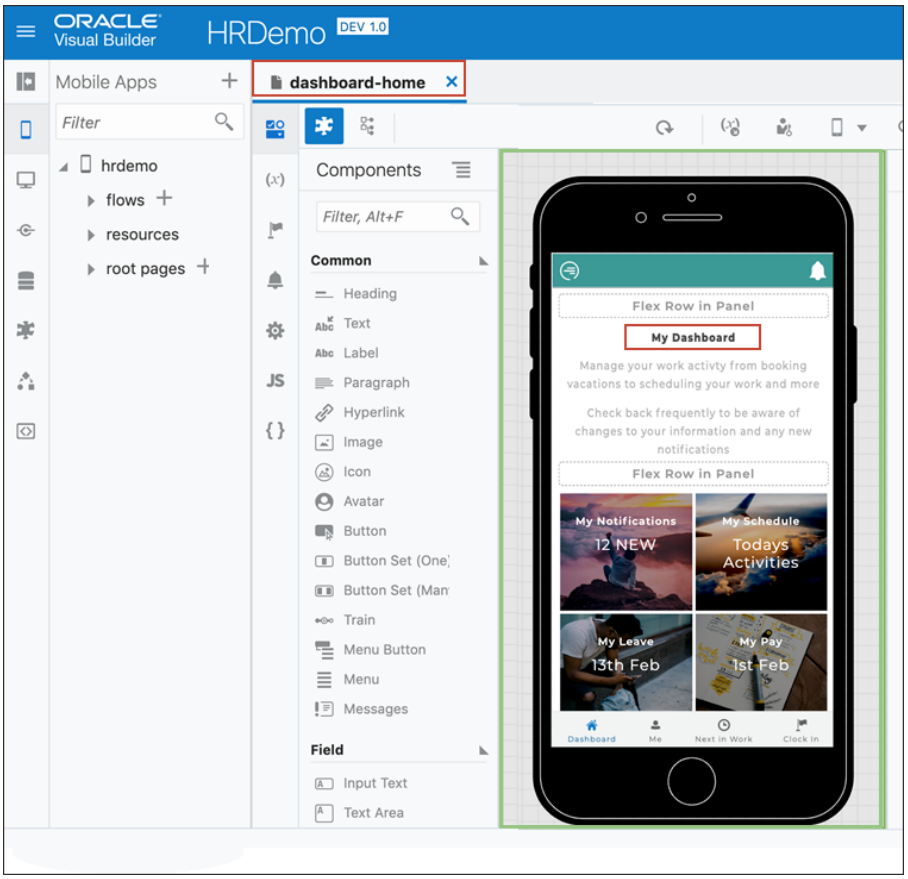
To use Visual Builder in Oracle Integration, you must first complete prerequisite tasks. See Use Visual Builder in Oracle Integration in *Provisioning and Administering Oracle Integration 3*.

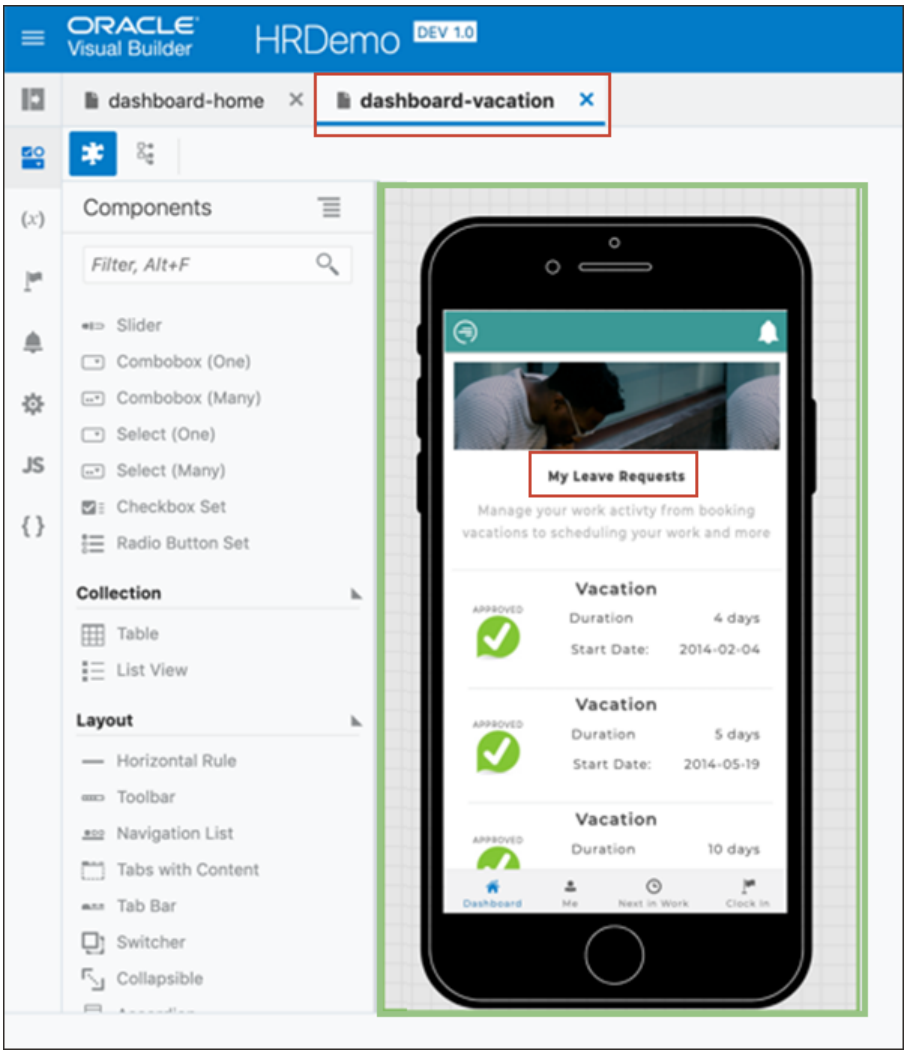
The following Visual Builder documentation is available on the Oracle Help Center:

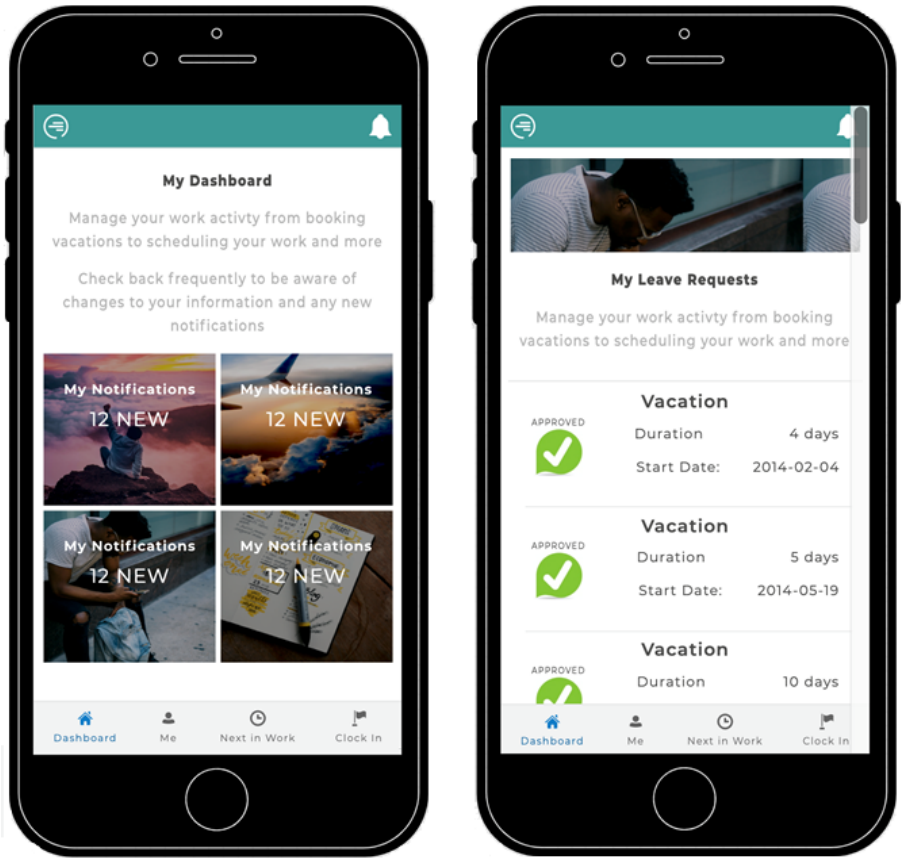
- *Administering Oracle Visual Builder in Oracle Integration 3*
- *Developing Applications with Oracle Visual Builder in Oracle Integration 3*
- *Developing Integrated Spreadsheets Using Oracle Visual Builder Add-in for Excel*
- *Managing Data Using Oracle Visual Builder Add-in for Excel*
- *Oracle Visual Builder Page Model Reference*
- *Accessing Business Objects Using REST APIs*

Steps to Build a Mobile App

It's as easy as 1, 2, 3, ...4.

Step	Description
1	**Connect your data sources** 
2	**Create your dashboard page** 

Step	Description
3	**Display backend data** 

Step	Description
4	**Go live** And just like that, you're done. Your first mobile app built specifically to meet your needs. You can use the app on both Android and Apple iOS devices. You can share just within your company or via Google Play and Apple App Stores if needed. 

Supported Browsers

Oracle Integration 3 supports the following browsers.

Application or system	Usage	Supported browsers
Oracle Cloud Infrastructure Console	To perform administrative tasks such as provisioning and administering your instance	Supported Browsers
Oracle Integration 3 user interface	To design, deploy, and monitor integrations and robots; automate business processes; provide real-time business visibility and analytics; build web and mobile applications; and more	Oracle Software Web Browser Support Policy **Note**: Oracle Integration supports JET version 13.
Environment where a robot runs	If you automate using a robot, the robot must run on a computer or virtual machine (VM). The robot can run on a variety of browsers.	System Requirements in *Using Robots in Oracle Integration 3*

Resources to Grow Your Expertise

Welcome to the Oracle Integration community! Oracle Integration offers many ways to stay connected and grow your expertise.

Resource	Description	Link
Subscribe to the Oracle Integration newsletter	Oracle Integration sends a quarterly newsletter with product, event, and training information.	Subscribe to the Oracle Integration Newsletter
Watch a webcast	Oracle Integration offers the following quarterly webcasts: • Product Update Webcasts Get product updates and watch live demos. • Customer Success Webcasts Get inspired by success stories and best practices, or present your own wins to the community.	Integration Resources blog post: Watch past webcasts and learn about upcoming webcasts Subscribe to the Oracle Integration Newsletter: Learn about upcoming webcasts by subscribing to the newsletter
Read the Oracle Integration blog	Learn what's new from the product management team.	Oracle Integration blog
Read the A-Team blog	Learn from technical solution architects and software engineers.	A-Team Chronicles blog
Join Cloud Customer Connect	Connect with experts, ask or answer questions, and share your opinions.	Cloud Customer Connect
Watch a video	Learn more about Oracle Integration by watching a short video.	Videos page on the Oracle Help Center
Watch a live demo	Created by the product management team, live demos offer deep dives into new features, use cases, and more. Subscribe to the channel to get notified when a new live demo is available.	Oracle Integration on YouTube
Complete a tutorial	Take a product tour, build an integration from start to finish, or complete a longer self-directed workshop with a LiveLab.	Tours and Tutorials in *Using Integrations in Oracle Integration 3*
Find a partner	Use the Oracle PartnerNetwork to find a partner to support your business goals. Connect to the Oracle network to view this page.	Oracle Partner Finder

2

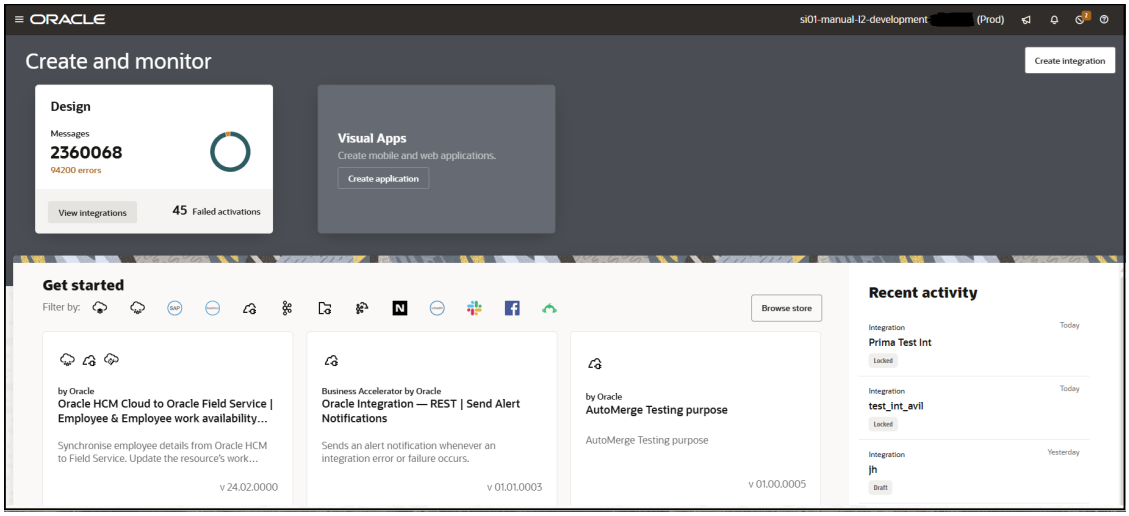
Navigate and Explore

After your system is provisioned and user roles are assigned, begin exploring the rich features of Oracle Integration.

Topics:

Get Familiar with the Home Page

When you sign in to Oracle Integration, the Home page opens. From here, you can navigate to the product features you want, view a mini dashboard of relevant metrics and status, and link directly to your current tasks, applications, and work in progress.



Take a moment to get familiar with all you can do on the Home page.

Home Page Element	Description
	Click to show or hide the navigation pane and menu. The Home page gives you quick access to what you do in Oracle Integration. However, it's not your only option. At any time, you can click **Show/Hide navigation menu**  to access all pages, tools, dashboards, and settings.
Instance_name (*Shape*)	Displays the name and shape of your instance. • *Instance_name*: Displays the name of the instance. • *Shape*: Displays the instance shape (either **Dev** for a development instance or **Prod** for a production instance). **Note:** You can't change the shape after you create the instance. However, you can move data to another instance using the export and import features.
 Announcements icon	Click to display links that show the status of connectivity agents, active integrations, and certificate expiration dates. See View Notification Alert Announcements.
	Click to display the current progress of some asynchronous, design-time operations. This view eliminates the need to constantly refresh the page to check progress concerning this Oracle Integration instance. See View the Progress of Asynchronous, Design-Time Operations.
Alerts icon	Click to display alerts. For example, an alert is visible if you have activated more than 90% of the allowed limit of 700 integrations. The alert provides a link to the Integration dashboards page for details.
Create and monitor	Gives you a snapshot of key metrics for your integrations and visual applications. For a break down of the total numbers, hover over a color on the circle graphic. For quick access to more details, click an individual card.
Create integration	Click to select either **Application** or **Schedule** to open the **Create integration** pane for creating a new application or schedule integration. If you want to create the new integration in a project, select the project name from the **Project** drop-down list, or type a new project name to create a new project that includes your new integration. If you do not want to create the integration in a project, see Create an Integration in *Using Integrations in Oracle Integration 3*.
Get started	Lists the recipes and accelerators available in Oracle Integration, which you can use to jump-start your integration development. Filter the list by clicking the **Filter by** product icons. To browse the entire collection, click **Browse store**.
Recent activity	Provides direct access to the integrations most recently updated. This provides a quick and easy way to return to your work.

View Announcements About Service Instance Patching and Required User Actions

Oracle Integration provides an announcements banner that notifies users about scheduled, ongoing, and completed patching and required actions. The announcements banner is visible only to users with the ServiceAdministrator or ServiceDeveloper role.

Note the following details about the announcements banner:

- Users *without* the ServiceAdministrator and ServiceDeveloper roles (for example, ServiceMonitor) cannot see the banner and take any actions.
- The following types of banner announcements are shown:
  - A planned change
  - A planned change is rescheduled
  - A planned change is complete
  - A required user action
- A required user action announcement is displayed as a warning in the banner, while the other announcement types are shown as information banners.
- A maximum of three announcements are shown in the banner.
- The **View full announcement** link in the announcements banner provides more specific details about the announcement.
- Once a user clicks **Close**, the announcement is considered as read and not shown again for that same user. An audit log is created for the user with an **Announcement Read** message.

Explore the Navigation Pane

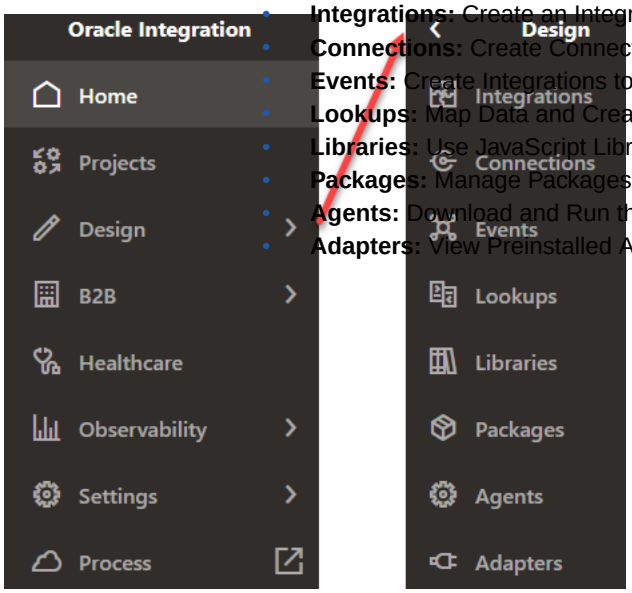
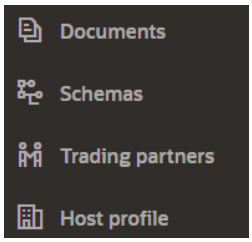
Use the navigation pane to access all the pages, tools, dashboards, and settings in Oracle Integration.

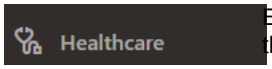
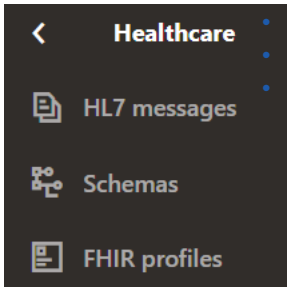
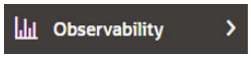
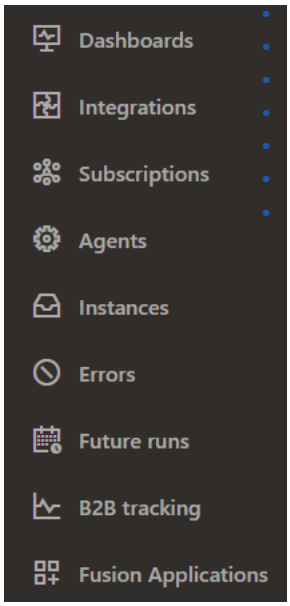
When you start Oracle Integration, the navigation pane is hidden. To view the navigation pane, click **Show/Hide navigation menu** ☰ in the top corner of the Home page.

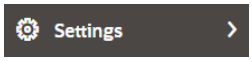
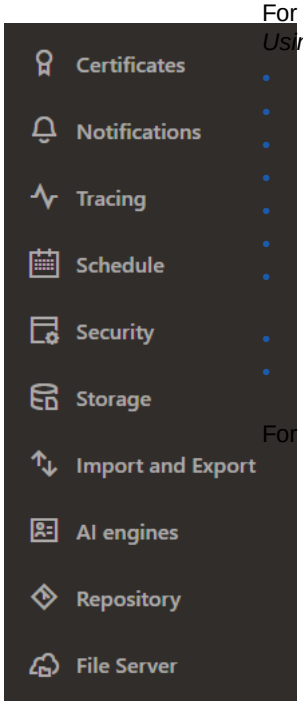
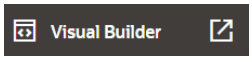
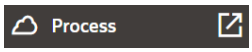
The menu displayed in the navigation pane depends on your assigned role, your selection, and your location in Oracle Integration. The navigation pane may display the main menu or a submenu.

Browse the menu and submenu selections, which give you access to the Oracle Integration runtime environment, design-time environment, development tools, and administration settings.

Menu Selections	More Information
Home	Access the launch pad and high-level dashboard for Oracle Integration, search for recipes and accelerators, and open recently worked on projects.

Menu Selections	More Information
	Launch the page to create integration projects. An integration project consists of self-contained assets (integrations, connections, lookups, and JavaScript libraries) bundled into a solution that can be developed, managed, and monitored as a single unit from a single workspace. For more information about working with projects, see the following topics: • About Integration Projects • Designing, Managing, and Monitoring Integrations in Projects
 	Launch the design-time environment for integrations. Configure connections, and create and activate integrations. Work with lookups, libraries, packages, agents, and adapters. For more information about the submenu selections, see the following topics: • **Integrations:** Create an Integration • **Connections:** Create Connections • **Events:** Create Integrations to Publish and Subscribe to Events • **Lookups:** Map Data and Create Lookups • **Libraries:** Use JavaScript Libraries in Integrations • **Packages:** Manage Packages • **Agents:** Download and Run the Connectivity Agent Installer • **Adapters:** View Preinstalled Adapters
 	Exchange business documents between Oracle Integration and a trading partner securely and reliably. For more information about the submenu selections, see the following topics: • **Documents:** Work with B2B Documents • **Schemas:** Work with B2B Schemas • **Trading partners:** Use B2B for Oracle Integration in Trading Partner Mode • **Host profile:** Define the Host Profile

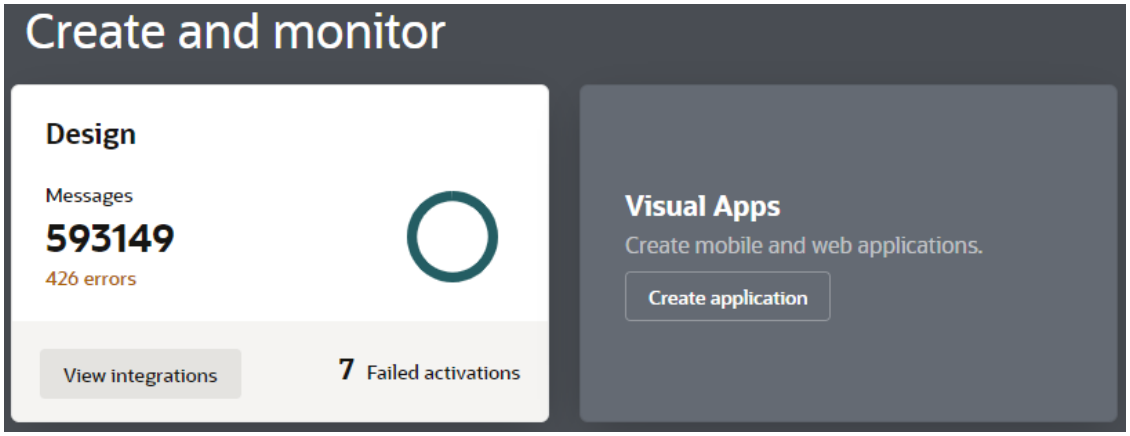
Menu Selections	More Information
	Exchange messages between Oracle Integration and healthcare organizations that use HL7 and FHIR. For more information about the submenu selections, see the following topics:  • **HL7 messages**: Create a Custom HL7 Message • **Schemas**: Create a New Healthcare Schema • **FHIR profiles**: Import FHIR Profile Packages
 	Monitor integrations in the runtime environment. For more information about the submenu selections, see the following topics: • **Dashboards:** View the Dashboard • **Integrations:** Monitor the Message Processing Status of Integrations • **Subscriptions:** Monitor Event Subscription Integration Status • **Agents:** Monitor Agents • **Instances:** Track Integration Instances • **Errors:** Manage Errors • **Future runs:** View the Scheduled Integration Runs Calendar • **B2B tracking:** Track B2B Messages • **Fusion Applications:** Diagnose and Manage Event-Based Oracle Fusion Applications Integrations

Menu Selections	More Information
 	Configure settings for security certificates, notifications, tracing, schedules, time limits for inactive sessions, storage buckets, import and export of design-time metadata, and artificial intelligence (AI) engines. Access File Server settings for preferences, users, groups, and folders. For more information about the submenu selections, see the following topics in *Using Integrations in Oracle Integration 3*: • **Certificates:** Manage Security Certificates • **Notifications:** Configure Notification Emails • **Tracing:** Change the Tracing Level on an Active Integration • **Schedule:** Globally Change the Submitter of Integration Schedules • **Security:** Set the Time Limit for Inactive Sessions • **Storage:** Step 2: Configure the Instance Object Storage Bucket • **Import and Export:** Step 3: Export and Import Design-Time Metadata Between Instances • **AI engines:** Bring Your Own Key (BYOK) for Generative AI Descriptions • **Repository:** Integrate Projects and Project Deployments with a GitHub Repository For File Server settings, see Administer File Server.
	Launch Visual Builder to create and publish web and mobile applications. For more information about working with Visual Builder, see Get Started with Visual Builder in *Developing Applications with Oracle Visual Builder in Oracle Integration 3*.
	Launch Oracle Cloud Infrastructure Process Automation to rapidly design, automate, and manage business processes in the cloud. For more information about working with Oracle Cloud Infrastructure Process Automation, see Use Process Automation with Oracle Integration 3 in *Using Oracle Cloud Infrastructure Process Automation*.

Get Stats at a Glance

The **Create and monitor** section on the Home page gives you a snapshot of key metrics for your integrations and visual applications.

For a breakdown of the total numbers, hover over a color on the circle graphic. For quick access to more details, click an individual card.

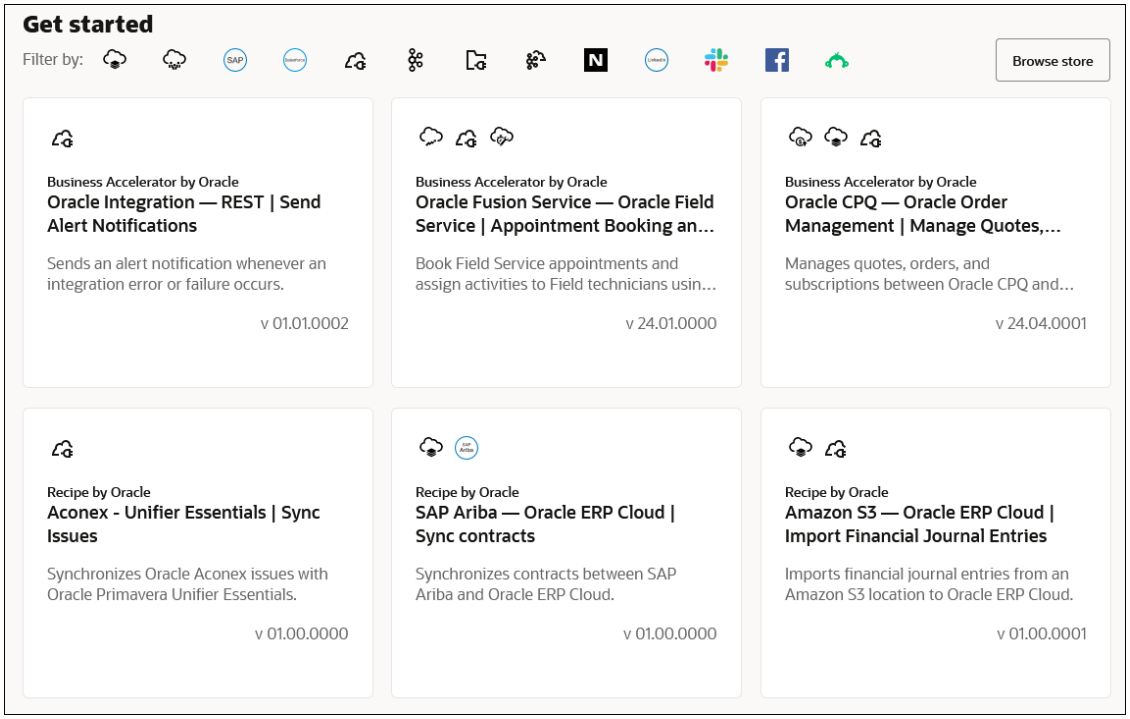


Summary Item	Description	Action
Design	Shows the total number of messages, errors, and failed activations.	Click **View integrations** to open the Integrations page listing all integrations, where you can search and filter for integrations of interest. To see more, click **errors** below the message count or hover over and click areas on the circle graphic to open the **Dashboards** page and get a comprehensive view of how your integrations are performing. See View the Dashboard in *Using Integrations in Oracle Integration 3*.
Process Apps	Shows the total number of process applications that have been activated over a specified time. Use the drop-down menu to select a period of the last 24 hours, 48 hours, or 7 days. To see the number of completed processes, position the cursor over the green area. To see the number of processes that are in progress, position the cursor over the blue area	Click to launch Oracle Cloud Infrastructure Process Automation to rapidly design, automate, and manage business processes that can be used in integrations. See Overview of Oracle Cloud Infrastructure Process Automation.
Visual Apps	Shows the total number of visual applications. Hover over each pie section to see the number of applications in that category.	Opens the Visual Builder page, which provides access to all visual applications. On this page, you can create new applications and work with existing ones. See Get Started with Visual Builder in *Developing Applications with Oracle Visual Builder in Oracle Integration 3*.

Explore Recipes and Accelerators

Oracle Integration offers a rich set of prebuilt, sample use cases called **recipes**, and also run-ready business and technical integrations called **accelerators**. Recipes and accelerators give you a head start in creating your integrations and provide end-to-end connections for critical business problems.

The **Get started** section on the Home page displays some of the available recipes and accelerators.



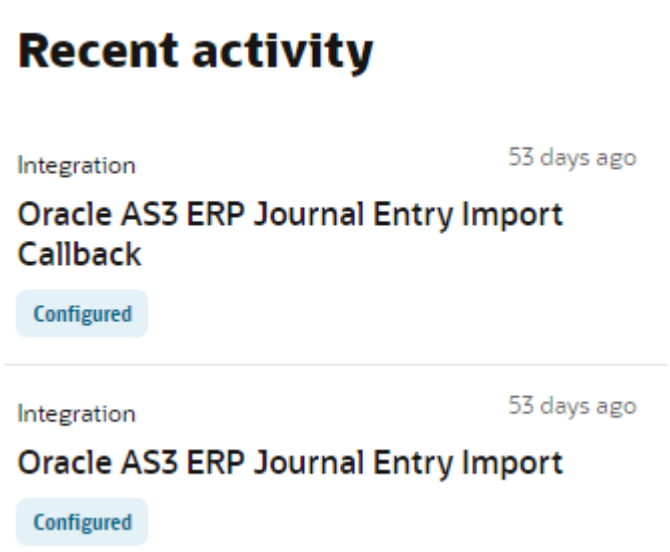
To browse the entire collection, click **Browse store**, and then search, filter, and sort the list to find the accelerator or recipe you want to use.

You can install a recipe or accelerator, configure its connections, and activate its integrations. See Get Started with Integration Recipes and Accelerators.

Open Recently Worked On Items

The **Recent activity** section on the Home page lists the items that you worked on recently.

No need to navigate the menus and search for where you left off. Instead, click the card in the **Recent activity** section to return to your work. It's fast, direct, and personalized for you.



Keep Everything Organized with Projects

With projects, all automation solutions and their components, including integrations, robots, and more, are in a single unified workspace. Additionally, projects provide robust life-cycle management and streamlined updates to prebuilt integrations.

Flexibility to Solve Your Business Problems

A project keeps components for an automation solution in a single workspace. The number of projects that you create and the number of components that you include in each project is up to you, allowing you to create a custom solution that supports your business goals. For example, projects can help you achieve the following objectives:

- **Organize the work of each line of business that works in an instance**

  For instance, create one or more projects for ERP integrations and robots, one or more projects for HCM integrations and robots, and so on.

- **Keep all components related to a single automation solution together**

  For instance, create one project for each automation solution, such as including all integrations, robots, and other components for synchronizing Salesforce opportunities with Oracle Fusion Cloud Applications in a single project, and creating other projects for other automation solutions.

4 Reasons to Work in Projects

1. **Build, manage, and monitor everything in one place**

   A project helps you get started quickly and confidently because you build all the components an integration needs within a project. You don't need to click all over the user interface to find the right page to create a connection, lookup, or JavaScript library. It's all right there within your project, including the ability to monitor your integrations.

2. **Build faster by reusing components**

   After you've built an integration or two within a project, creating additional integrations is even faster and easier. The connections, JavaScript libraries, and lookups from existing integrations are all at your fingertips, offering easy one-stop shopping. Just grab what you need from the streamlined user interface and start building.

3. **Future-proof your prebuilt integrations with easy updates**

   Accelerators provide prebuilt integrations that you can easily customize, but what happens to your customized integration when a new version of the accelerator is released? When you install the accelerator in a project, you can automatically update to the new version into your integration without reworking your customizations. Use accelerators with confidence, knowing that you can always accept the newest version without having to set aside time to modify and troubleshoot your integration.

4. **Deploy with confidence**

   Within a project, you might have integrations that you're building and testing, as well as integrations that you're monitoring because they've been deployed to production. Additionally, each integration might have many versions that you've created as you optimized the integration. With a project deployment, you can easily select the integrations and their versions that you want to activate and quickly see the integration versions that you've deployed together.

You don't have to create your integrations in projects. But given all the benefits they offer, why not try them out? See Design, Manage, and Monitor Integrations in Projects in *Using Integrations in Oracle Integration 3*.

Questions? Ask Oracle Assistant

Oracle Assistant is a digital assistant that can answer common questions about Oracle Integration. If you have questions about Oracle Integration, ask Oracle Assistant.

Oracle Assistant joined Oracle Integration in August 2021 and was developed using Oracle Digital Assistant. You can ask questions in full sentences and Oracle Assistant will try getting the best answer for you, even searching the product documentation. You can ask general questions about Oracle Integration or specific questions about its capabilities.

When you ask questions, try to be as specific as you can in what you're looking for. For example, if you're looking for information on three-legged Oauth configuration, tell the assistant "Oauth three-legged configuration", instead of "Oauth integration". You'll get better answers that way.

Oracle Assistant is constantly improving, so the assistant does get better with time. The more you use the assistant, the more the assistant improves.

You can tell Oracle Assistant:

- "Find" with a keyword to immediately search the product documentation for information.
- "Not helpful", to make a note so that the team can improve Oracle Assistant.

If you want to move the icon a different place on the page, click on it and drag it to a new position.

3

Get Started with Integration Recipes and Accelerators

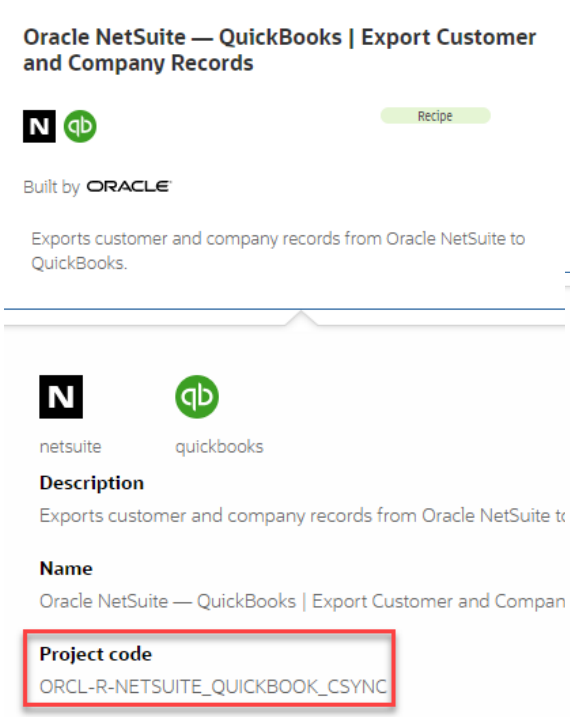
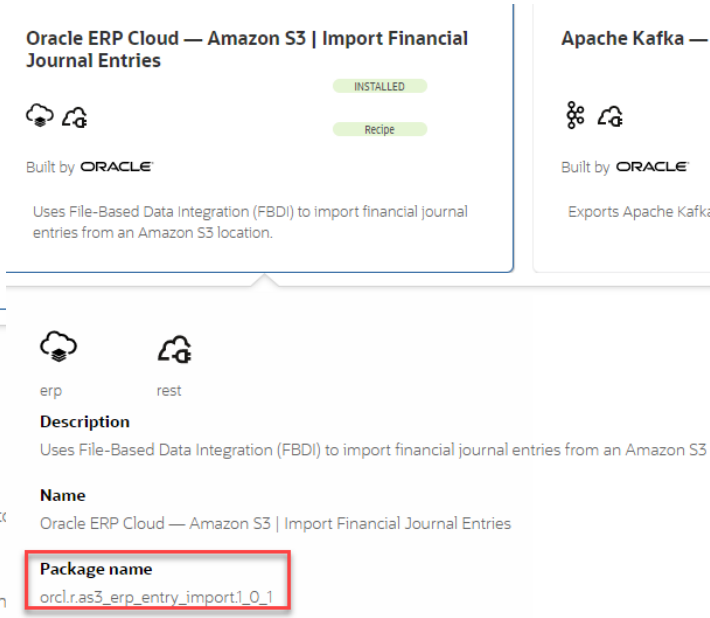
Recipes and accelerators, collectively known as *prebuilt integrations*, are preassembled integration solutions.

A recipe or accelerator contains all the resources required for a specific integration scenario. The resources include integration flows, connections, lookups, and certificates. Use a recipe or accelerator to quickly get started building an integration.

Recipes are either project-based or package-based:

- When you install a *project-based recipe*, you can access it on the Projects page in Oracle Integration. All recipes made available since the Projects feature was introduced are project-based.
- When you install a *package-based recipe*, you can access it on the Packages page in Oracle Integration. Before the Projects feature was introduced, all recipes were package-based. If you want to convert one of the package-based recipes into a project, you can import the recipe's integration flows (IAR files) into a new project.

To determine whether a recipe in the Integration Store is project-based or package-based before you install it, hover over the recipe card and click **Open Details** ⌄ to expand the information pane. The recipe details show either **Project code** (for a project-based recipe) or **Package name** (for a package-based recipe).

Project-based recipe	Package-based recipe
	

Topics:

Learn About Differences Between Recipes and Accelerators

Recipes are sample use cases that give you a head start. **Accelerators** are run-ready business integrations or technical patterns of larger scale.

Here's a comparison of recipes and accelerators.

Recipes	Accelerators
A recipe is a sample use case that gives you a head start.	A business accelerator provides an end-to-end business process or use case (for example, marketing to lead, hire to retire, or concept to launch). A technical accelerator provides a common technical solution (for example, sending alerts on failures). They are meant to be called by another integration.
Not supported by the producer	Managed and supported by the producer
Fully editable in the Oracle Integration designer	Configurable and extendable
Can't auto-upgrade to new versions	Upgrades provided by producer
Configurator in Oracle Integration	Configurator in Oracle Integration and as native SaaS
Always free	Paid offering (as decided by producer)

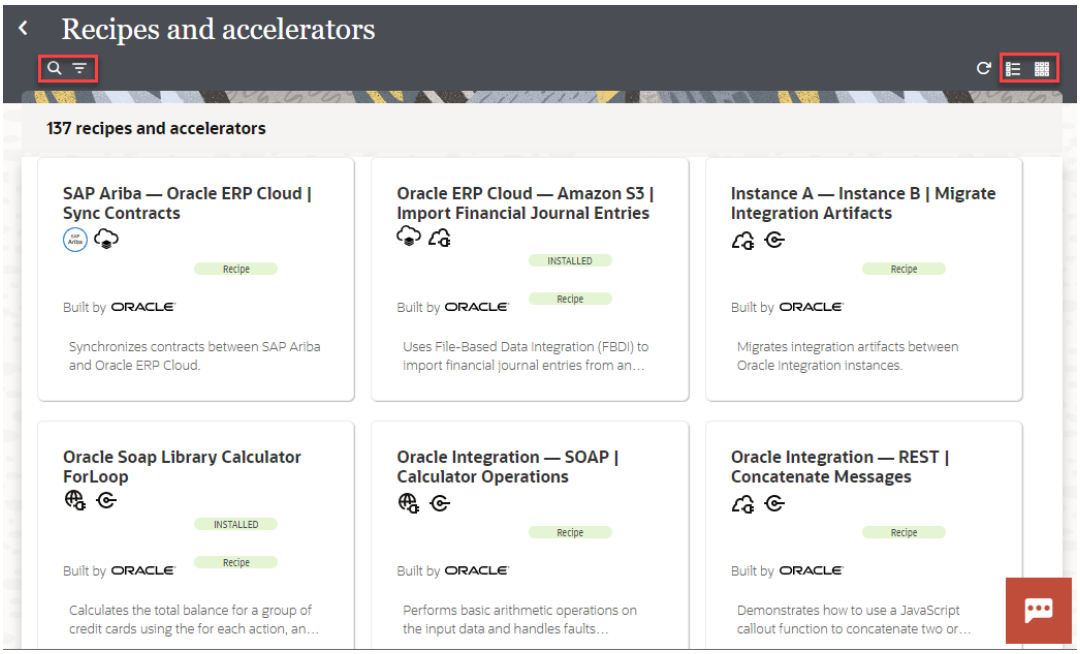
Find Recipes, Accelerators, or Adapters

The Home page displays a partial listing of the available accelerators, recipes, and third-party adapters. It also provides access to the Integration Store, where you can browse the entire portfolio of preassembled solutions.

To find a recipe, accelerator, or third-party adapter:

1. On the Oracle Integration Home page, in the **Get started** section, click **Browse store**.

   The Integration Store is displayed. Note that you can toggle the display between a list view and a card view.



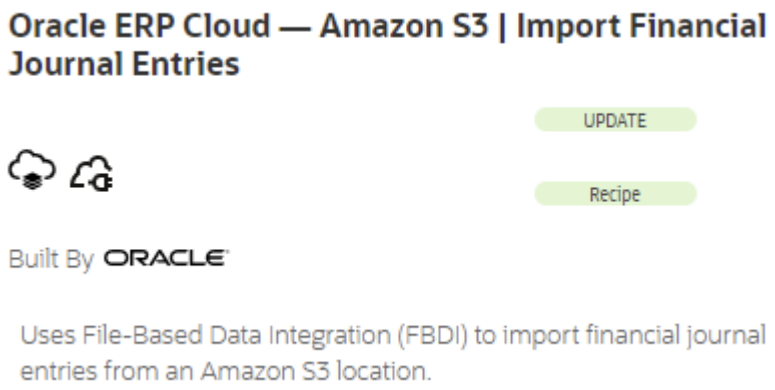
2. Use the **Search** , **Filter** , and view tools to narrow your search, filter and sort the list, and change how the list is displayed.

Get More Details About Recipes and Accelerators

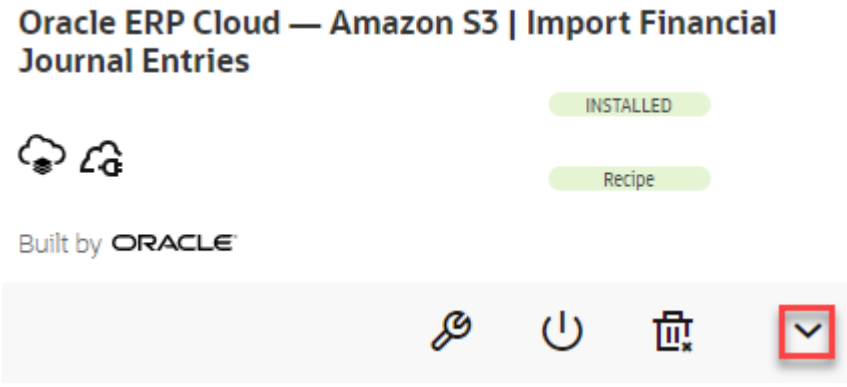
The Integration Store displays useful information to help you decide whether you want to use a particular recipe or accelerator.

At a glance, you can see:

- The adapters used by the recipe (or accelerator), identified by product icons. Position the cursor over the icons to see the name of an adapter.
- The two applications that the recipe (or accelerator) connects to, followed by a brief purpose of the recipe.
- The status of the recipe (or accelerator). The **INSTALLED** status indicates that the recipe, as well as all its dependent resources, are already deployed in Oracle Integration.
- The type of the artifact, whether it's a **Recipe** or **Accelerator**.



To see more information, such as a full description, package or project name, version, publication date, and a link to the associated adapter documentation, hover over the card and click **Open Details** ⌄ to expand the information pane.



Install Recipes, Accelerators, or Adapters

When you install a recipe or accelerator, Oracle Integration deploys it as a project. You can view it on the Projects page. The project contains the integration flows and associated resources of the recipe or accelerator.

When you install a third-party adapter, Oracle Integration deploys it on the Adapters page. You can create connections using the adapter.

To install a recipe, accelerator, or third-party adapter:

1. Find Recipes, Accelerators, or Adapters that you want to install.
2. Click **Get**.

   If you are installing an accelerator or a third-party adapter, choose the version to install, accept the terms and conditions if any, and click **Get** again.

> **Note:**
>
> For accelerators and third-party adapters, newer versions may be available periodically on the Integration Store. Click **Get latest** to install the latest version.
>
> - You can upgrade an installed accelerator project to a newer version automatically without making manual changes to your existing installation. For accelerators, you can upgrade to any of the available new versions. See Upgrade an Accelerator Project.
> - For third-party adapters, you can only upgrade to the latest version.

View Details About a Resource

When you're editing a recipe (or an accelerator), you can view details about the integration flows and associated resources within the recipe.

To view the details for a resource:

- **For package-based prebuilts:** In the Configuration Editor, hover over a resource and click **Open Details** ⌄.
- **For project-based prebuilts:** In the Project Workspace, in a resource section (for example, the Connections section), click **View all resources** at the bottom. On the resulting page, hover over a resource and click **Open Details** ⌄.

The resource row expands and displays the following information:

- The resource details, such as, name, identifier, type, and so on.
- The total number of integration flows in the recipe that use the resource.
- The name of each integration flow in the recipe that uses the resource.

Configure Resources

After you install a recipe (or accelerator), you need to configure the integration flow(s) and associated resources within the recipe.

You can perform the following configuration actions for a recipe (or accelerator):

- You can **edit** integrations flows, connections, certificates (PGP keys), lookups, and libraries. You must have administrator privileges to edit certificates.
- You can **replace** connections and certificates in some recipes. However, you can't replace them if an integration flow in the recipe is either active or locked. You can't replace them if they are included in a business or technical accelerator.
- You can **update** integration property values for any integration flow in which properties have been defined.
- You can **add** schedules to any integration flow that uses a Scheduled Orchestration style (also called pattern). These integration flows run according to the schedule you define.

To configure a recipe (or accelerator), hover over an installed recipe in the Integration Store, and click **Configure** .

Depending on the recipe type (package-based or project-based), a corresponding configuration page opens, where you can configure the resources.

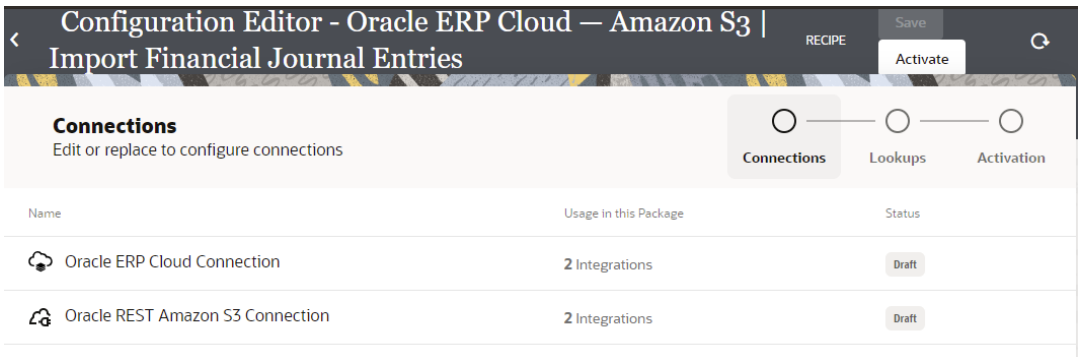
- Configure Resources in a Package
- Configure Resources in a Project

Configure Resources in a Package

When you click **Configure** on a recipe or accelerator card, the Configuration Editor is displayed if it's a package-based prebuilt.

1. View the details on the editor.

   The title bar includes the name of the recipe or accelerator. Click **Connections**, **Lookups**, **Activation**, **Certificates**, and **Libraries** to view the resources that are included in the package.



2. Hover over a row to reveal the options for configuring, editing, or replacing a resource.

Click...	Valid for...	Description
Add schedule	Integrations	Define when the integration flow runs. This option is available only if the integration flow uses a Scheduled Orchestration style. Click **Actions** ⋯ on an integration flow to reveal this option.
Update property values	Integrations	Update integration property values for any integration flow in which properties have been defined. Click **Actions** ⋯ on an integration flow to reveal this option.
Edit 	Integrations Connections Certificates Lookups Libraries	Access the corresponding page for editing the integration flow or any other resource. For more information about editing these resources, see: • Configure Connection Properties. • Manage Security Certificates. • Map Data and Create Lookups. • Use Libraries to Manage Functions for Integrations.
Replace 	Connections Certificates	Replace a connection or a certificate (PGP key) across all the integration flows in a package. • You can replace a connection resource only with another resource of the same role (trigger, invoke, or trigger and invoke). In addition, the connection status must be **Configured**. You can't replace a connection with a connection whose status is **Draft**. If a compatible connection resource doesn't exist, a message is displayed. • You can replace a PGP key only with a key of the same type of key. For example, you can replace a public PGP key with another public PGP key, but not with a private PGP key.
Revert 	Connections Certificates	Restore the original connection or certificate (PGP key). If you replace a connection or certificate (PGP key) resource, then **REPLACED** displays after the name of the resource, and **Revert**  is available.
Open Details 	Connections Certificates Lookups Libraries	Display the number and name of the integration flows in this package that use the selected resource.

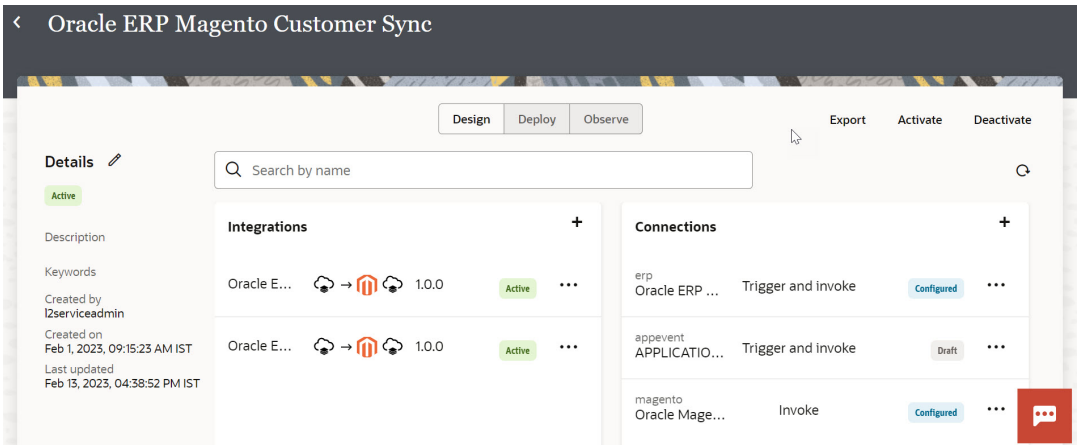
3. Make the necessary edits to the resources and save your changes, then click **Go back** to return to the Configuration Editor.
4. Continue to edit each resource. When you are ready, you can activate the package from the Configuration Editor or the Integration Store.

Configure Resources in a Project

When you click **Configure** on a recipe or accelerator card, the Project Workspace is displayed if it's a project-based prebuilt.

1. View the details in the workspace.

   The title bar includes the name of the recipe or accelerator. The **Integrations**, **Connections**, **Lookups**, and **Libraries** sections contain the respective resources of the recipe project.



2. Within a section (for example, **Connections**), click **Actions** ... on a resource to reveal the options for editing, configuring, or deleting a resource.

Click...	Valid for...	Description
Add schedule	Integrations	Define when the integration flow runs. This option is available only if the integration flow uses a Scheduled Orchestration style.
Update property values	Integrations	Update integration property values for any integration flow in which properties have been defined.
Edit	Integrations Connections Certificates Lookups Libraries	Access the corresponding page for editing the integration flow or any other resource. For more information about editing these resources, see: • Configure Connection Properties. • Manage Security Certificates. • Map Data and Create Lookups. • Use Libraries to Manage Functions for Integrations.

Click...	Valid for...	Description
Refresh endpoints	Integrations	Refresh the endpoints of an integration flow in a project that includes endpoints that support refreshing artifacts. See Refresh Endpoints for Integrations.
Extend **Note:** Available in Accelerator projects only.	Integrations	Extend an integration flow in an accelerator project to process predefined custom objects by adding and configuring an extension group. See Extend an Integration in an Accelerator Project.
Refresh metadata	Connections	Refresh the currently-cached metadata available to adapters that have implemented metadata caching. See Refresh Integration Metadata.
Delete	Connections Certificates Lookups Libraries	Delete an existing resource. To add a new resource to a project, click **Add** in the respective section.

3. Make the necessary edits to the resources and save your changes, then click **Go back** to return to the Project Workspace.
4. Continue to edit each resource. When you are ready, you can activate the project from the workspace or the Integration Store.

Activate Recipes and Accelerators

After you configure the resources of a recipe (or an accelerator), you can activate it.

- **From the Integration Store:** Hover over the recipe card and click **Activate** .
- **From the Configuration Editor or Project Workspace:** Click **Activate** in the title bar. In the Activate Package or Activate project panel, click **Activate** again.

  A message confirms that the integrations in the prebuilt have been activated. Refresh the page to view the updated status of the integrations.

Uninstall Recipes and Accelerators

Uninstalling a recipe or accelerator deletes it and all its resources.

You can't uninstall a recipe (or accelerator) if an integration flow of the recipe is the **ACTIVE** or **LOCKED** state.

Note that, when you uninstall a recipe, you'll lose all the changes you made to the recipe's resources, including changes made to integration flows. Although you can reinstall the recipe, the resources are installed freshly in this case, without your modifications. If you'd like to make changes to an installed recipe, you can edit its resources instead of uninstalling it completely.

Note that you can't edit the integration flows in an accelerator. In this case, you can reinstall to restore an accelerator.

To uninstall a recipe or accelerator:

1. Find the recipe or accelerator that you want to uninstall.
2. Hover over the recipe or accelerator card and click **Uninstall**  .
3. Select which version you want to uninstall, then click **Uninstall**.

A

Recipes Reference

Oracle Integration includes a growing portfolio of recipes for integrating different applications for customer relationship management and customer experience (CRM/CX), enterprise resource planning (ERP), human capital management (HCM), social networking, and more.

For an overview of recipes and accelerators and how to use them, see Get Started with Integration Recipes and Accelerators. In this section, you'll find more information about some of the Oracle Integration recipes. For a full list of recipes and accelerators currently available for Oracle Integration, see Recipes and Accelerators on the Oracle Help Center.

Topics:

Customer Relationship Management (CRM) Recipes

Oracle Integration includes a set of recipes that help you integrate applications related to managing the relationship with your customers. These recipes handle common business tasks such as converting opportunities to quotes to orders, dispatching service technicians, managing membership, and synchronizing customer data.

Topics:

For documentation on all available CRM recipes, explore our Recipes and Accelerators page in Oracle Help Center.

Create Orders in Oracle Fusion Cloud Service for Oracle CPQ Opportunities

Use this recipe to streamline the entire opportunity-to-quote-to-order process by integrating Oracle Fusion Cloud Service and Oracle Configure, Price, and Quote (Oracle CPQ).

> **Note:**
>
> This recipe is available as **Oracle B2B Service — Oracle CPQ | Convert Opportunity-to-Quote-to-Order** in the Integration Store. Oracle provides this recipe as a sample only. The recipe is meant only for guidance, and is not warranted to be error-free. No support is provided for this recipe.

Overview

This recipe allows users to create quotes and sales orders for an opportunity. It provides a consistent user interface flow that originates in Oracle Fusion Cloud Service.

Transaction data is passed seamlessly between the two applications, ensuring accuracy and allowing Oracle Fusion Cloud Service users to take advantage of the on-demand configuration, pricing, and quoting capabilities of Oracle CPQ.

The benefits include:

- Allows users to create quotes with accurate pricing and generate company specific proposals
- Simplifies quoting and reduces duplicate entry for sales reps managing opportunities that require quotes
- Enables sales reps to accurately configure and price complex products in an intuitive and easy to use manner

System and Access Requirements

- Oracle Fusion Cloud Service, Release 9 or later
- Oracle CPQ, 2015 R1 or later
- Oracle Integration

Install, Configure, and Run the Recipe

For more information and steps to install, configure, and run recipes, see Get Started with Integration Recipes and Accelerators.

Related Documentation

- Oracle CPQ Cloud-Oracle Sales Cloud Integration through Oracle Integration Cloud Service Implementation Guide

Integrate Oracle Fusion Cloud IoT Intelligent Applications with Oracle Field Service Cloud

Use this recipe to automate the process of dispatching technicians to jobs based on alerts from Internet of Things (IoT) enabled devices. It integrates Oracle Fusion Cloud IoT Intelligent Applications and Oracle Field Service Cloud.

> **Note:**
>
> This recipe is available as **Oracle IoT Cloud — Oracle Field Service Cloud | Dispatch Technicians** in the Integration Store. Oracle provides this recipe as a sample only. The recipe is meant only for guidance, and is not warranted to be error-free. No support is provided for this recipe.

Overview

This recipe enables you to dispatch technicians quickly and increase productivity by having activities automatically created, without any manual interventions, from Oracle Fusion Cloud

IoT Intelligent Applications to Oracle Field Service Cloud. You can also keep better track of incidents and activities by minimizing human errors.

The capabilities include:

- End-to-end integration between Oracle Field Service Cloud and Oracle Fusion Cloud IoT Intelligent Applications
- Automatic activity creation based on alerts from IoT enabled devices
- Display IoT device details within Oracle Field Service Cloud

System and Access Requirements

- Oracle Field Service Cloud, Version 18A or later
- Oracle Fusion Cloud IoT Intelligent Applications
- Oracle Integration

Install, Configure, and Run the Recipe

For more information and steps to install, configure, and run recipes, see Get Started with Integration Recipes and Accelerators.

Related Documentation

- Oracle Field Service Cloud / IoTCS Integration using OIC

Enterprise Resource Planning (ERP) Recipes

You can use enterprise resource planning (ERP) recipes if you're looking to integrate applications that manage your day-to-day business activities such as transferring files, importing financials, and managing the supply chain (inventory, purchase orders, receiving, and shipping).

Topic:

- Process Inventory, Order, and Shipping Info Between Oracle ERP/SCM Cloud and Oracle WMS Cloud

For documentation on all available ERP recipes, explore our Recipes and Accelerators page in Oracle Help Center.

Process Inventory, Order, and Shipping Info Between Oracle ERP/SCM Cloud and Oracle WMS Cloud

Use this recipe to process information related to inventory, purchase orders, receiving, and shipping. It demonstrates a sample integration between Oracle Enterprise Resource Planning

(ERP)/Supply Chain & Manufacturing (SCM) Cloud and Oracle Warehouse Management (WMS) Cloud.

> **Note:**
>
> This recipe is available as **Oracle ERP/SCM Cloud — Oracle WMS Cloud | Process Inventory, Order, and Shipping Info** in the Integration Store. Oracle provides this recipe as a sample only. The recipe is meant only for guidance, and is not warranted to be error-free. No support is provided for this recipe.

Overview

This recipe syncs inventory, and maps receipts to purchase orders, receipts to receiving, and shipments to orders.

It includes the following individual integrations in one package:

- `OCWMS_INVENTORY_ADJUSTMENT`: Makes inventory adjustments from Oracle WMS Cloud to Fusion inventory.
- `OCWMS_RECEIPT_ADVICE`: Takes purchase order receipts in Oracle Inventory Management Cloud and maps them to purchase orders in Oracle WMS Cloud.
- `OCWMS_RECEIPT_CONFIRMATION`: Maps receipt confirmation from Oracle WMS Cloud to Fusion receiving.
- `OCWMS_SHIPMENT_REQUEST`: Maps shipment requests from Fusion shipping to orders in Oracle WMS Cloud.
- `OCWMS_SHIPMENT_CONFIRMATION`: Maps shipments from Oracle WMS Cloud to the confirmation in Fusion shipping.
- `OCWMS_ECHO_LGFDATA`: Used for internal XML transformation. No user configuration is necessary.

The integration uses the standard REST Adapter available in Oracle Integration to create a connection to a specific instance of Oracle WMS Cloud. The connection is then used to create an integration, which calls Oracle WMS Cloud web services, as well as exposes web services that Oracle WMS Cloud can call to push out data. The sample flow uses the Oracle ERP Cloud Adapter to connect to ERP Cloud instances (Fusion/Cloud Inventory).

System and Access Requirements

- Oracle WMS Cloud, Version 9.0.0 or later
- Oracle Inventory Management Cloud, Version 18A or later
- Oracle Integration

Install, Configure, and Run the Recipe

For more information and steps to install, configure, and run recipes, see Get Started with Integration Recipes and Accelerators.

Related Documentation

- Oracle Warehouse Management Cloud Integrating with Integration Cloud Services
- *Using the Oracle ERP Cloud Adapter with Oracle Integration 3*

- *Using the REST Adapter with Oracle Integration 3*

Other Recipes

Oracle is continually expanding its portfolio of recipes. In addition to the recipe documents listed here, you can find documentation for the latest recipes on the Recipes and Accelerators page in the Oracle Help Center.