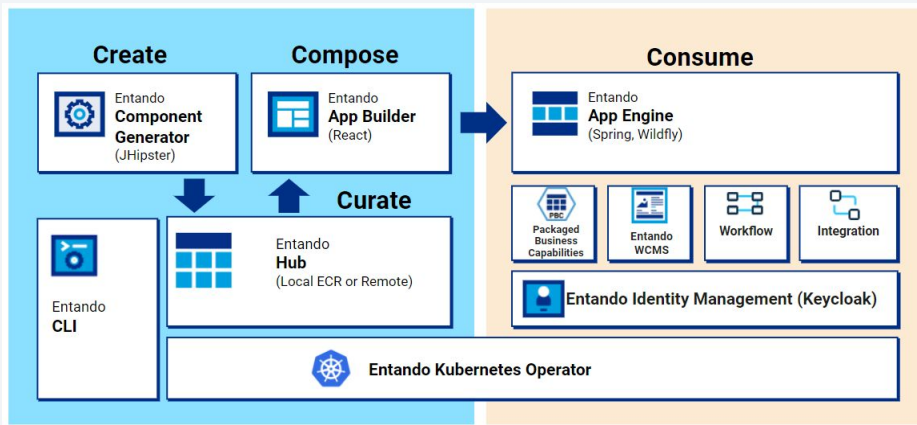


Entando is the leading open source application composition platform for a modern, cloud-native, and Kubernetes-native stack. It enables parallel teams to accelerate development, lower runtime costs, and streamline maintenance of business capabilities by assembling components into applications. The platform consists of several services to build and run applications:



### Entando App Builder

The user interface of the Entando Platform that hosts the Entando WCMS and provides a feature-rich low-code environment to configure and interact with components, design and create pages, manage content, and build applications.

### Entando Component Generator

The Entando Blueprint is powered by JHipster and generates the components used to build an Entando Application via automation and templating.

### Entando CLI

The Entando command line interface that provides a set of commands to accelerate common tasks such as Entando installation, code generation, and bundle management.

### Entando Hub

A repository containing reusable, modular components built with the Entando Platform.

### Entando App Engine

The core runtime engine with OOTB services to develop Entando Applications. It exposes the core Entando APIs, assembles and coordinates components, and provides the data access layer to persist page and application design.

### Entando Operator

Provides installation and application lifecycle automation for Entando Applications, microservices and infrastructure services, e.g. databases and Keycloak.

### Entando Identity Management System

Entando's Keycloak-based user management and authentication system.

### Entando Platform Capability (EPC)

A packaged capability that adds functionality to the platform and/or additional UX controls to the App Builder.

## Entando Benefits for Business and Development

Entando is designed for enterprises developing modern applications on Kubernetes and eager to adopt a fully modular and composable API-first/microservices architecture. The Entando Platform enables developers to create the building blocks of their applications (e.g. micro frontends and microservices) using their existing or preferred tools, languages, frameworks and cloud provider. Applications are assembled via a low-code UI from a repository of pro-code components or packaged business capabilities. Modules are pro-code templates that can be implemented as-is, configured or extended and reused across multiple applications.

**Faster Time to Production**  
Accelerate updates, add extensions, and patch modules separately

**Lower Cost at Runtime**  
Scale only the modules you need to

**Code Reuse and Standardization**  
Leverage a low-code UI and pro-code templates governed by the platform

**Adapt to Changing Requirements**  
Update modules rapidly, or start with MVP and add more components over time

**Breakdown the Skills Gap and Shortage**  
Use any language, framework and runtime for each microservice or micro frontend on a per-component basis

**Streamline Security and ALM**  
Isolate bugs and security/feature updates to specific modules, then manage individually

# Compatibility & Features

Entando is a modern development and runtime platform that allows applications to be built from a set of predefined modular components. It includes tools to CREATE components, to CURATE a component repository, to COMPOSE applications from pro-code components in a low-code environment, and to CONSUME the applications in a cloud runtime environment on Kubernetes.

Entando is designed to be a cloud-native and Kubernetes-native platform, with compatibility requirements representing a general approach to achieve this rather than a prescription of specific versions for every technology.

## Platform

- REST APIs
- Caching
- Search indexing
- Cloud deployment
- Analytics
- Business Process Management (BPM) integration
- Data abstraction layer
- Integration adapters
- Pro-code tools (CLI, Component Generator, PBC builder)
- Composition layer

## UX Design

- Page designer for low-code composition with drag-and-drop features
- Page preview
- Widget-based UI
- Responsive design support
- Agnostic approach to modern JavaScript frameworks (e.g., React, Angular, Vue)
- Template engine
- Multi-language support (i18n)

## Users and Authorization

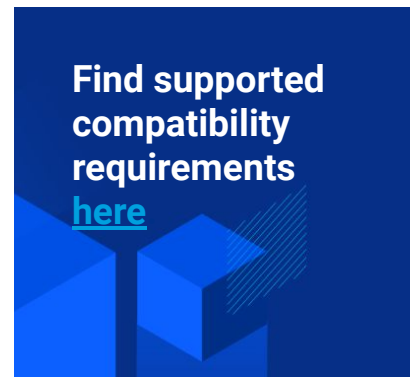
- Identity management via [Keycloak](#)
- Role/group-based access control
- Centralized authentication
- User registration
- Standard Protocols (OpenID Connect, OAuth 2.0 and SAML 2.0)
- Single Sign On & Social Login

## Content and Data

- Content and digital asset management
- Content and data types
- Content workflow
- Content versioning
- Content scheduling
- Content classification (taxonomy and facet-based navigation)
- Web form management
- Fast content editing
- Georeferenced content
- Search Engine Optimization (SEO)

## DevOps

- Kubernetes-native deployment
- Cloud-agnostic
- Support for modern JavaScript frameworks (e.g. React, Angular, Vue)
- Microservice generation
- Data modeling via JHipster Domain Language
- Extensible blueprint framework via JHipster
- CI/CD integration



## An Open Approach

Entando is committed to supporting our open source software community. We welcome contributions to the Entando Cloud Hub or to the Entando Platform from our users, customers and partners.

The most direct way to engage with Entando is by reaching out with issues or requests. Let us know about bugs

you have found, features you would like to see, or general suggestions for improvement. Learn about all the ways you can be part of the community here:

[bit.ly/EntandoContributions](https://bit.ly/EntandoContributions).

Find details on the product and official technical documentation at [developer.entando.com](https://developer.entando.com).

Discover the Entando source code at [github.com/entando](https://github.com/entando).

## The Flexible Stack for Kubernetes

Entando supports cloud-native organizations with customized enterprise application architectures that employ CI/CD pipelines, pluggable modules and open APIs. Entando exposes REST APIs for all of the platform's capabilities and services. Entando APIs simplify integration with legacy systems and enable multiple options for merging and migration. Third-party software can directly access Entando services to provide a rich integrated environment.

Data normalization and the decoupling of data from its presentation allow the reuse of Entando-built components and packaged business capabilities across all enterprise applications and platforms. This provides greater flexibility when adding specialized tools, either to an existing environment or processes or when building a new process-driven application.

# New features available with Entando 7.1

Entando 7.1 accelerates your application development process and lowers cloud runtime costs more effectively.

## Key Features and Enhancements

### New

#### Entando Platform Capability

##### Accelerates Application Development

A pluggable framework allows Creators and Composers to easily expand the functionality of the Entando App Builder and add external services.

#### Pro-code Bundle Templates

##### Simplifies Bundle Publishing Process

Templates enable developers, system integrators, and enterprises to create packaged business capabilities by reusing existing micro frontends and microservices across applications.

#### Service Discovery

##### Improved API Claims Mechanism

The ent CLI orchestrates an API claims mechanism to simplify service discovery and decouple communication between micro frontends and microservices. It eliminates the need to define and manage API endpoints, both in local development and within a running instance.

## Enhancement

#### Create Tooling

##### Enhanced Local Development Process

Developers can easily initialize a bundle from scratch or download one from an Entando Hub, then use the ent CLI to add components and populate the bundle descriptor. Micro frontends, microservices, and platform components can be built, run, and installed with only a few commands.

#### Entando CLI

##### Enhanced CLI Functionality

The CLI can now create new bundles from the templates in the Entando Cloud Hub. It also provides a wider range of commands to perform various actions, e.g. create a Docker image of the bundle, publish a bundle in Docker Hub, and manage APIs.

#### Docker Image Specification

##### Bundle Packaging with Docker

Bundles are now packaged and published with Docker, which handles the image specifications. Although each bundle release is done through an image registry, users can still manage code sources with their preferred Git provider.

#### Entando Hub

##### Newer Capabilities with an Entando Hub

Enterprises, development teams, system integrators, etc., can implement an Entando Hub as a central repository where entries are quickly discovered and accessed by the App Builder. Entando Hub updates include Docker bundle name generation, additional security checks, instructions to enable certain commands, and a refined bundle retrieval mechanism.