

# The Ingres NeXt Initiative

The Easiest and Safest Way to Modernize Your Ingres Databases and Applications

## BENEFITS

- Tune and size your environment to changing business needs
- Leverage IT investments in database and applications
- Improve resiliency
- Avoid legacy hardware, OS maintenance, and support costs
- Avoid overprovisioning resources

## Minimize Risks

- Obtain 100% compatibility with on- premises deployment
- Preserve investments in existing business logic
- Use the same database, integration, and skills across hybrid deployments

## Stay Current

- Run on the latest hardware and Ingres release with current patches
- Modernize “Green Screen” applications for use with web and mobile platforms

## Reduce Effort

- Let Actian take care of backup, deployment, and monitoring
- Use Actian-managed services to free DBAs for higher-value tasks

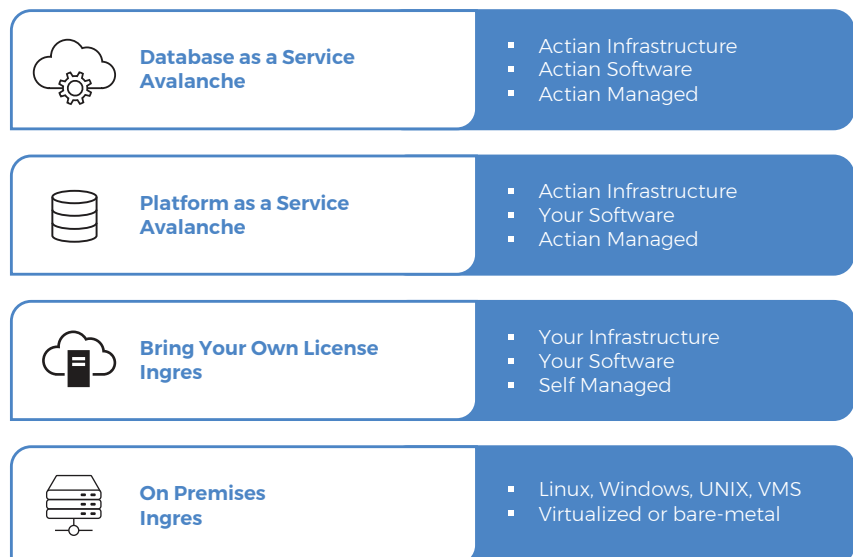
Modernizing your Ingres database and application infrastructure will help your organization respond more quickly to market changes, keep up with the competition and support digital transformation. However, modernization can be risky since Ingres database and its supported applications may have complex dependencies on other applications, data infrastructure, operating systems and hardware. Replacing thousands of hours of custom-developed business logic is a long journey that is expensive and takes extensive planning to prevent disruption of mission-critical data infrastructure.

Ingres NeXt is a strategy to support your modernization journey with a phased approach to achieve incremental milestones. This helps Ingres database and OpenROAD application development customers accelerate and de-risk database and application modernization. Ingres NeXt provides migration utilities and the flexibility to modernize your way, staying on premises and/or making the journey to the cloud as it makes sense for your business. Our modernization approach minimizes risk, protects business logic, lowers costs, reduces time and effort, and decreases business disruption.

## Ingres Modernization

The Ingres NeXt initiative provides your business with flexible options for infrastructure, software, and management of the Ingres database running on Google Cloud Platform, Microsoft Azure, or Amazon Web Service and continues flexible on-premises support as show in Figure 1.

Figure 1: Ingres Database Migration - Your Way with Four Flexible Options



## On Premises

Some enterprise workloads are sensitive to compliance requirements and are too complex or too expensive to move to the public cloud. Actian will continue to develop and fully support Ingres on existing hardware infrastructure, including modern platforms such as Linux and Windows as well as legacy platforms whether virtualized or bare metal.

## Bring Your Own License (BYOL)

The Actian customer hosts and manages BYOL deployments with the flexibility to move existing licenses to the cloud or purchase additional ones. The Ingres database 11.2 is available as a Docker container to rapidly realize value from cloud scale and elasticity, while providing the portability to move data between cloud providers and to data centers.

The Ingres NeXt Initiative includes Kubernetes management and Helm Charts for ease of deployment. Docker/Kubernetes/Helm Charts simplify Ingres database deployment and provide a high degree of portability between public cloud platforms and your private cloud and virtualized environments.

## Platform as a Service

The Ingres database will be part of the Avalanche Cloud Data Platform, allowing customers to use their Ingres database unlimited license agreements (ULAs) while taking advantage of an Actian hosted and managed service. The Avalanche Cloud Data Platform provides free entitlement to other Avalanche platform products such as high performance operational data analytics. This allows you to use live transactional data for real-time analytics and reporting.

The Avalanche Cloud Data Platform also provides access to built-in data integration via DataConnect. Customers will no longer need to manage backups, patches, or upgrades and will be able to realize these and other cost savings in their cloud of choice.

Furthermore, customers will benefit from cloud elasticity for workloads that can grow and shrink dynamically as business needs change. This feature is beneficial for environments that require varying amounts of storage and compute over time.

## Database as a Service

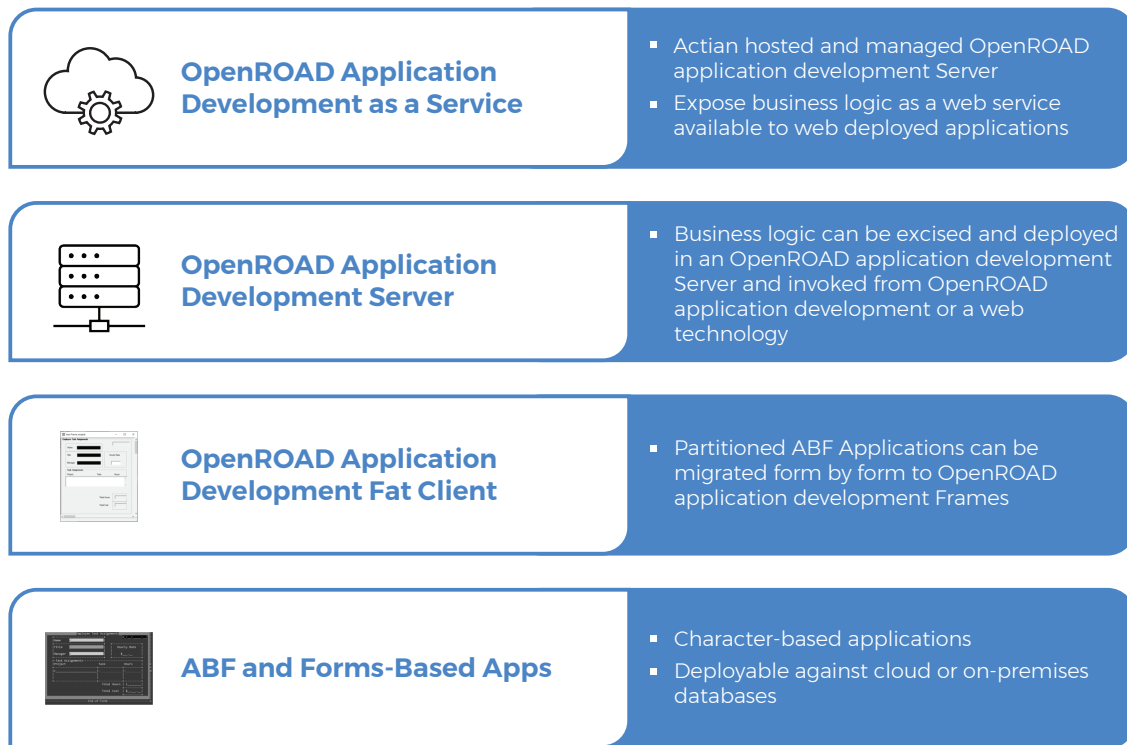
Database as a Service will provide the very same benefits for your Ingres deployments as Platform as a Service. This service allows users to purchase new entitlements through Actian.

## Application Modernization

OpenROAD Database Application Development is an object-oriented, 4GL tool. It lets you rapidly develop and deploy mission-critical, n-tier business applications on Windows, Linux and Unix connecting to databases such as Ingres, Microsoft SQL Server, Oracle, Zen, Actian X, and more via ODBC/JDBC.

The Ingres NeXt Initiative provides four options to modernize your application infrastructure using OpenROAD application development as shown in Figure 2.

Figure 2: Options to Modernize Your Application Infrastructure



## ABF and Forms-Based Apps

OpenROAD application development includes migration tools that allow you to modernize “green screen” Ingres database Applications-By-Forms (ABF) and form- based applications by converting them into OpenROAD application development frames as shown in Figure 3. Modernized applications support cloud and on-premises databases.

## OpenROAD Application Development Fat Client

You can transform OpenROAD application development thick clients to browser-based equivalents without the cost, resource, effort, and risk associated with rewriting or replacing code. Developers can then extend these applications for web and mobile deployment, using HTML5 and JavaScript. Furthermore, OpenROAD application development supports modernized applications running alongside unconverted ones.

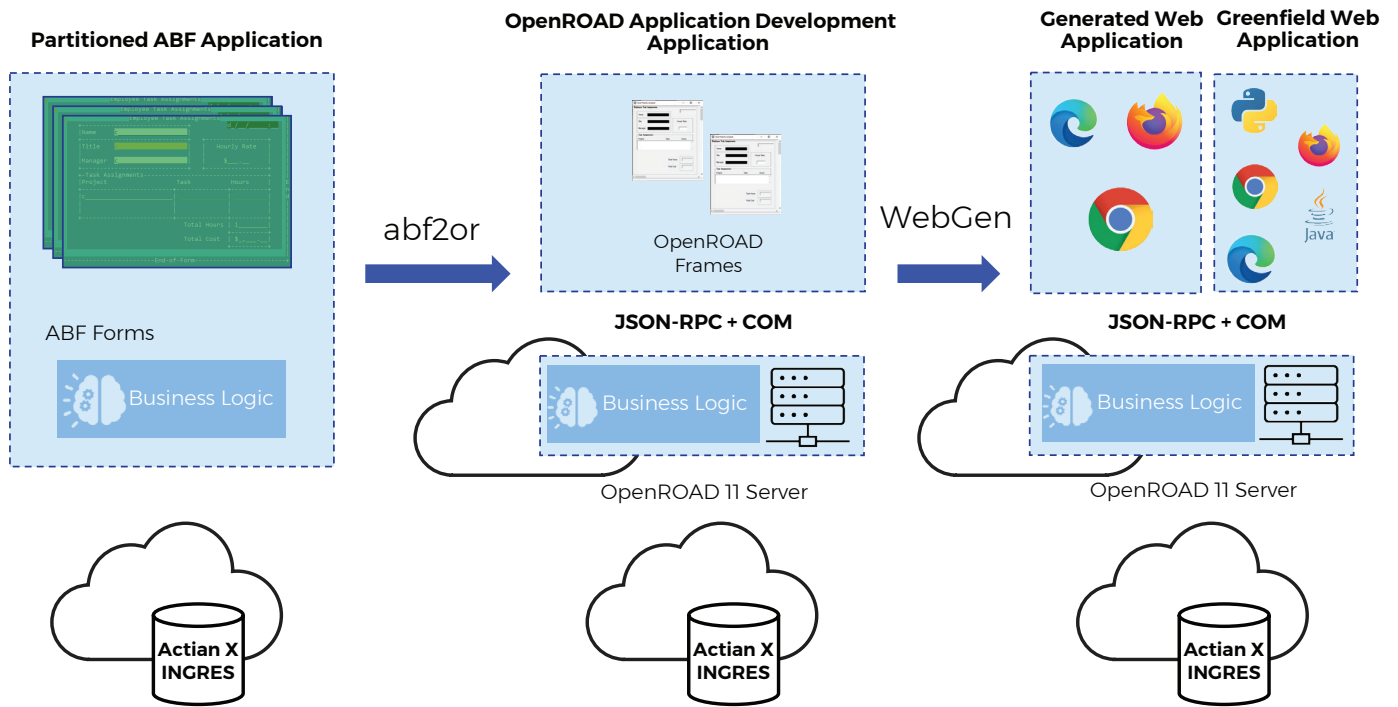
## OpenROAD Application Development Server

OpenROAD application development encapsulates and deploys existing business logic within the OpenROAD application development Server. Reuse avoids rewriting decades of business logic from scratch. A web application, written in HTML5/JavaScript, can connect to the OpenROAD application development Server via JSON-RPC with no additional libraries or plugins/add-ons.

## OpenROAD Application Development as a Service

OpenROAD application development as a Service will deliver an Action hosted and managed OpenROAD application development Sever. This option exposes business logic as a web service that is available to web-deployed applications. The OpenROAD application development Service scales to meet business needs at a given instance in time.

Figure 3: OpenROAD Application Development Data-Centric Modernization



## Ingres NeXt Readiness Assessment

The Actian Professional Services team, together with strategic partners, is available to collaborate with you to assess, scope and advise on your journey to the cloud:

